

Society of Open Innovation: Technology, Market, and Complexity **(SOI)** **Special Issue Journals Published Papers List**

(Including Non-SOI Open Innovation Related Special Issue Journals, such as **Research Policy, R&D Management, Journal of Evolutionary Economics, Technovations**)

2023-05-19

Let's conquer the growth limit of capitalism with SOI.

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1. '23-'15

-Journal of Open Innovation: Technology, Market,
and Complexity(JOIn)
Special Issue Published Papers List

1-1. 2023 Journal of Open Innovation: Technology, Market, and Complexity(JOIn) Special Issue Published Papers List

☐ Research article ● Open access


Web3 toolkits: A user innovation theory of crypto development

Darcy W.E. Allen, Jason Potts

Article 100050



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SOI 2023 Keynote Speech Paper

1-2. 2022 Journal of Open Innovation: Technology, Market, and Complexity(JOIn) Special Issue Published Papers List

Open Access

Article

An Empirical Analysis of Cashless Payment Systems for Business Transactions

by  Mahfuzur Rahman,  Izlin Ismail,  Shamshul Bahri and  Muhammad Khalilur Rahman
J. Open Innov. Technol. Mark. Complex. 2022, 8(4), 213; <https://doi.org/10.3390/joitmc8040213> - 06 Dec 2022
Viewed by 1021

Abstract This paper examines the antecedents of cashless payment systems among businesses in Malaysia. The adoption of cashless payment systems by businesses has the potential to reduce the costs related to handling huge amounts of cash in the market and enhance transaction speed. Unfortunately, [...] Read more.
(This article belongs to the Special Issue New Directions of Open Innovation, and Business Model with Digital Transformation)

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Article

Life-Cycle Contract as an Innovative Business Model for High-Tech Medical Organizations

by  Igor Ilin,  Anastasia Levina,  Konstantin Frolov,  Alexandra Borremans,  Alyona Ershova,  Andrea Tick and  Mariia Averina
J. Open Innov. Technol. Mark. Complex. 2022, 8(4), 207; <https://doi.org/10.3390/joitmc8040207> - 28 Nov 2022
Viewed by 528

Abstract The active digitalization of the healthcare system has given impetus to the emergence of a new type of enterprise—high-tech medical organizations (HMO). Their main distinguishing feature is the use of innovative high-tech medical equipment. However, the high cost of this equipment has become [...] Read more.
(This article belongs to the Special Issue New Directions of Open Innovation, and Business Model with Digital Transformation)

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Article

Innovation Capabilities and Business Performance in the Smart Farm Sector of South Korea

by  Daeyu Kim and  Seunghoo Jin
J. Open Innov. Technol. Mark. Complex. 2022, 8(4), 204; <https://doi.org/10.3390/joitmc8040204> - 21 Nov 2022
Viewed by 677




Abstract Ever-increasing unpredictability has led to recognition of increasing importance of innovation capabilities of businesses. In spite of recognizing such an important issue of innovation capability, not much research has been conducted on the relationship between innovation capabilities in business planning, R&D, commercialization and [...] Read more.
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Article

The Development of Digital Collection Platform under Responsible Innovation Framework: A Study on China’s Non-Fungible Token (NFT) Industry

by  Dandan He,  Zheng Liu,  Qingqing Yang and  Lei Ma
J. Open Innov. Technol. Mark. Complex. 2022, 8(4), 203; <https://doi.org/10.3390/joitmc8040203> - 19 Nov 2022
Viewed by 735

Abstract The combination of non-fungible token (NFT) with paintings, music, games, videos and other forms of creative content is an innovation to protect the copyright of authors. It digitizes physical works with unique labels. At present, the NFT industry is blooming in the area [...] Read more.
(This article belongs to the Special Issue New Directions of Open Innovation, and Business Model with Digital Transformation)

Business Intelligence and Analytics (BIA) Usage in the Banking Industry Sector: An Application of the TOE Framework

by  Ashraf Bany Mohammad,  Manaf Al-Okaily,  Mohammad Al-Majali and  Ra'ed Masa'deh

J. Open Innov. Technol. Mark. Complex. 2022, 8(4), 189; <https://doi.org/10.3390/joitmc8040189> - 17 Oct 2022



Viewed by 1278

Abstract This study aims to examine the factors that influence business intelligence and analytics (BIA) usage in the banking sector. Based on a comprehensive literature review, a theoretical model was developed to explore the impact of three key factors on business intelligence and analytics [...] Read more.

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The Impact of Technological Innovation and Strategic CSR on Firm Value: Implication for Social Open Innovation

by  Soohwan Choi and  Jaewook Yoo

J. Open Innov. Technol. Mark. Complex. 2022, 8(4), 188; <https://doi.org/10.3390/joitmc8040188> - 16 Oct 2022

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Abstract This study was designed to explore the effects of strategic CSR conformity and technological innovation activities on the market value of Korean manufacturing firms. We proposed a research model based on resource-based, stakeholder, and institutional theories to examine the main effects of technological [...] Read more.

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Transforming Pipelines into Digital Platforms: An Illustrative Case Study Transforming a Traditional Pipeline Business Model in the Standardization Industry into a Digital Platform

by  Davis Adedayo Eisape

J. Open Innov. Technol. Mark. Complex. 2022, 8(4), 183; <https://doi.org/10.3390/joitmc8040183> - 12 Oct 2022


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Abstract For many, digital transformation is the new normal. However, in particular, pipeline businesses in traditional industries, such as standard-setting organizations (SSOs), are reluctant to radically rethink their business models, as they have often successfully prevailed for decades. The literature shows that there is [...] Read more.

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Can Developing Countries 'Catch Up' with Weak S&T Eco-Systems: Some Insights from Dynamic Asian Economies

by  Venni V. Krishna

J. Open Innov. Technol. Mark. Complex. 2022, 8(4), 175; <https://doi.org/10.3390/joitmc8040175> - 27 Sep 2022

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Abstract The post-war era, particularly from the mid-1980s, can be seen as a turning point for various Asian countries. Japanese success in industrialisation based on technology transfer from the industrialised West and evolution of unique endogenous scientific and technological capacities led scholars to conceptualise [...] Read more.

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Open Access Article

Evaluating the Impact of E-Service Quality on Customer Intention to Use Video Teller Machine Services

by  Hoang Viet Nguyen,  Tuan Duong Vu,  Bach Khoa Nguyen,  Thi My Nguyet Nguyen,  Binh Do and  Ninh Nguyen

J. Open Innov. Technol. Mark. Complex. 2022, 8(3), 167; <https://doi.org/10.3390/joitmc8030167> - 16 Sep 2022

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Abstract Digital transformation has received increasing attention from organizations and businesses that want to remain competitive in the digital world. Many banks have increasingly been embracing electronic commerce by providing electronic banking (e-banking) services. This study aimed to investigate the impact of electronic service [...] Read more.

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Open Access Article

Value Propositions in Heritage Tourism Site Business Models in the Context of Open Innovation Knowledge Transfer

by  Adam R. Szromek

J. Open Innov. Technol. Mark. Complex. 2022, 8(3), 161; <https://doi.org/10.3390/joitmc8030161> - 08 Sep 2022

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Abstract This article discusses the structures of value propositions in cultural heritage tourism site business models in the context of the concept of open innovation. The objective of the study is to identify value propositions in tourism sites and the tendency of managers to [...] Read more.

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SME Engagement with Open Innovation: Commitments and Challenges towards Collaborative Innovation

by  Sanmugam Annamalah,  Kalisri Logeswaran Aravindan,  Murali Raman and  Pradeep Paraman

J. Open Innov. Technol. Mark. Complex. 2022, 8(3), 146; <https://doi.org/10.3390/joitmc8030146> - 19 Aug 2022

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Abstract The open innovation concept is a comparatively new model, and there is an absence of empirical evidence to support a conclusive determination of the factors that affect open innovation, especially in terms of behaviour and costs. Researchers have proposed a variety of methods [...] Read more.

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Article

Innovative Capitalism Needs Institutional Co-Evolution

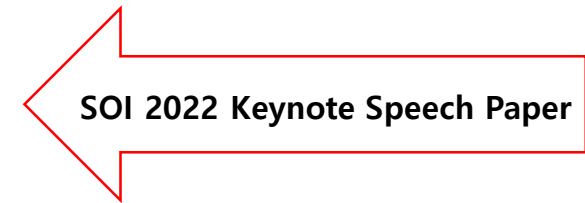
by Ulrich Witt

J. Open Innov. Technol. Mark. Complex. 2022, 8(3), 131; <https://doi.org/10.3390/joitmc8030131> - 29 Jul 2022

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Abstract The fact that innovative capitalism needs institutional co-evolution has widely been recognized with respect to pro-active institutional adaptations. Examples are the rearrangement and safeguarding of supply chains or the creation of public institutions providing indispensable systemic infrastructure. These adaptations facilitate the innovative expansion [...] Read more.

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Article

Megapolis as a Symbiosis of Socio-Economic Ecosystems: The Role of Collaboration

by Tatyana Tolstykh, Leyla Gamidullaeva, Nadezhda Shmeleva, Sergey Gromov and Alexander Ermolenko

J. Open Innov. Technol. Mark. Complex. 2022, 8(3), 126; <https://doi.org/10.3390/joitmc8030126> - 19 Jul 2022

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Abstract In recent years, smart and ecological urbanism and transformations into the new models of city making have become a global mainstream. These are models of the smart city, the eco-city, and the eco-megacity. The article proposes a conceptual approach to the formation of [...] Read more.

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Linking Eco-Innovation and Circular Economy—A Conceptual Approach

by Magdalena Pichlak and Adam R. Szromek

J. Open Innov. Technol. Mark. Complex. 2022, 8(3), 121; <https://doi.org/10.3390/joitmc8030121> - 14 Jul 2022

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Abstract The socio-economic transformations taking place nowadays bring about the necessity to transform the currently dominating linear paradigm of economic growth. The basis for such a transformation is, first of all, the implementation of sustainable systems of production and consumption, so that they evolve [...] Read more.

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Continued Intention to Use of M-Banking in Jordan by Integrating UTAUT, TPB, TAM and Service Quality with ML

by Evon M. Abu-Taieh, Issam AlHadid, Sabah Abu-Tayeh, Ra'ed Masa'deh, Rami S. Alkhawaldeh, Sufian Khwaldeh and Ala'aldin Alrowwad

J. Open Innov. Technol. Mark. Complex. 2022, 8(3), 120; <https://doi.org/10.3390/joitmc8030120> - 13 Jul 2022

Cited by 4 | Viewed by 1789

Abstract Mobile banking is a service provided by a bank that allows full remote control of customers' financial data and transactions with a variety of options to serve their needs. With m-banking, the banks can cut down on operational costs whilst maintaining client satisfaction. [...] Read more.

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The Level of Digitization of Small, Medium and Large Enterprises in the Central and Eastern European Countries and Its Relationship with Economic Parameters

by Jarosław Brodny and Magdalena Tutak

J. Open Innov. Technol. Mark. Complex. 2022, 8(3), 113; <https://doi.org/10.3390/joitmc8030113> - 05 Jul 2022

Cited by 3 | Viewed by 1134

Abstract Dynamic changes in the global economy, resulting from the implementation of the Industry 4.0 concept, cover practically all areas of life. They mainly concern companies that need to adapt to these changes as soon as possible in order to face growing competition. The [...] Read more.

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Open Innovation—Opportunities or Nightmares for the Shared Transport Services Sector?

by Katarzyna Turoń and Andrzej Kubik

J. Open Innov. Technol. Mark. Complex. 2022, 8(2), 101; <https://doi.org/10.3390/joitmc8020101> - 15 Jun 2022

Cited by 1 | Viewed by 1154

Abstract Shared transport services, including short-term vehicle rentals (bike-, car-, moped-, scooter-sharing) and travel sharing systems (ride-sharing, ride-hailing), have become more and more popular forms of mobility in recent years. Their increasing availability has made them an alternative to individual transport in cities. Along [...] Read more.

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A Business Model for Spa Tourism Enterprises: Transformation in a Period of Sustainable Change and Humanitarian Crisis

by Adam R. Szromek and Grzegorz Polok

J. Open Innov. Technol. Mark. Complex. 2022, 8(2), 72; <https://doi.org/10.3390/joitmc8020072> - 19 Apr 2022

Viewed by 1545

Abstract The global events of the third decade of the 21st century prove that the specter of humanitarian problems caused by health and military crises is real, and even very probable. Contemporary tourist entities, however, are not doomed only to a destructive reaction, but [...] Read more.

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Open Access
Review

The Success of Technology Transfer in the Industry 4.0 Era: A Systematic Literature Review

by Razan Alkhazaleh, Konstantinos Mykoniatis and Ali Alahmer

J. Open Innov. Technol. Mark. Complex. 2022, 8(4), 202; <https://doi.org/10.3390/joitmc8040202> - 18 Nov 2022

Viewed by 724

Abstract Modern innovative models have the possibility of transferring research and development (R&D) output through technology transfer from scientific and research institutions or other enterprises. The complex process of technology transfer is significantly dependent on cooperation among academia, industry, and governments (I4.0) in response [...] Read more.

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Vol. 8, Issue 1, (March 2022) 11 Papers(list in 2021 special issue)

Vol. 8, Issue 2, (June 2022) 2 Papers

Vol. 8, Issue 3, (September 2022) 8 Papers

Vol. 8, Issue 4, (December 2022) 9 Papers

1-3. 2021 (&2022) Journal of Open Innovation: Technology, Market, and Complexity(JOIn) Special Issue Published Papers List

Open Access

Article



The Influence of Non-Product-Related Attributes on Media Brands' Consumption

by Linda Saulīte, Deniss Ščeuļovs and František Pollák

J. Open Innov. Technol. Mark. Complex. 2022, 8(3), 105; <https://doi.org/10.3390/joitmc8030105> - 21 Jun 2022

Viewed by 909

Abstract This paper outlines the importance and role of non-product-related brand attributes, e.g., user imagery and usage imagery, in local news media content consumption by a younger audience aged 15–24. Due to technological developments, new media content consumption patterns have emerged. New dynamic, interactive, [...] Read more.

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Article



Assessment of the Activities of European Cultural Heritage Tourism Sites during the COVID-19 Pandemic

by Mateusz Naramski, Adam R. Szromek, Krzysztof Herman and Grzegorz Polok

J. Open Innov. Technol. Mark. Complex. 2022, 8(1), 55; <https://doi.org/10.3390/joitmc8010055> - 16 Mar 2022

Cited by 8 | Viewed by 2279

Abstract The COVID-19 pandemic has had a significant impact on the way tourism activities are conducted. Restrictions on moving from place to place have likely limited the spread of the SARS-CoV-2 virus but have also led to economic crisis in many countries around the [...] Read more.

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Open Innovation, Soft Branding and Green Influencers: Critiquing 'Fast Fashion' and 'Overtourism'

by  Philip Cooke,  Sergio Nunes,  Stefania Oliva and  Luciana Lazzeretti

J. Open Innov. Technol. Mark. Complex. 2022, 8(1), 52; <https://doi.org/10.3390/joitmc8010052> - 11 Mar 2022

Cited by 5 | Viewed by 4748



Abstract This paper explores digital reality replication for cultural consumption and green-digital open-system innovation, along with responsible, sustainable practices fashioned in a post-COVID-19 era. We address these after the dystopian effects of lockdown on global tourism and, in particular, the looming crisis of unsustainable [...] Read more.

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Innovative Business Strategies in the Face of COVID-19: An Approach to Open Innovation of SMEs in the Sonora Region of Mexico

by  Luis Enrique Valdez-Juárez,  Mauricio Castillo-Vergara and  Elva Alicia Ramos-Escobar

J. Open Innov. Technol. Mark. Complex. 2022, 8(1), 47; <https://doi.org/10.3390/joitmc8010047> - 02 Mar 2022

Cited by 3 | Viewed by 2790

Abstract The purpose of this study is to analyze and verify the effects of the business strategy (financial and market) and innovation management exerted on the economic indicators and business performances of SMEs in the south-central region of Sonora in Mexico. The effect of [...] Read more.

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Open Access Article

From the Classic Business Model to Open Innovation and Data Sharing—The Concept of an Open Car-Sharing Business Model

by  Katarzyna Turoń

J. Open Innov. Technol. Mark. Complex. 2022, 8(1), 36; <https://doi.org/10.3390/joitmc8010036> - 09 Feb 2022

Cited by 16 | Viewed by 2266

Abstract The car-sharing market is changing at a dynamic pace. Along with changes and new user habits, car-sharing systems are required to make this market even more accessible and flexible. This solution is possible due to the joining of Mobility-as-a-Service (MaaS) systems and the [...] Read more.

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SOI 2022 Keynote Speech Paper

Climate Dialog, Climate Action: Can Democracy Do the Job?

by Fred Young Phillips, LaVonne Reimer and Rebecca Turner

J. Open Innov. Technol. Mark. Complex. 2022, 8(1), 31; <https://doi.org/10.3390/joitmc8010031> - 26 Jan 2022

Viewed by 129

Abstract The latest IPCC report forcefully states that immediate, decisive, and large-scale actions are needed to avert climate catastrophe. This essay presumes that democratic governments are best and most desirably positioned to take these actions. Yet in the countries most pivotal to global climate [...] [Read more.](#)

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Open Access Article

Digitalizing Gratitude and Building Trust through Technology in a Post-COVID-19 World—Report of a Case from Japan

by Jun-ichi Yamamoto, Tomohiro Fukui, Kazutomo Nishii, Ichiro Kato and Quang Thahn Pham

J. Open Innov. Technol. Mark. Complex. 2022, 8(1), 22; <https://doi.org/10.3390/joitmc8010022> - 14 Jan 2022

Viewed by 214

Abstract Employee engagement has become a critical issue in Japanese companies. One way to develop it is to improve the relationship among employees through gratitude expressions. In the post-COVID-19 remote work environment, digital devices are essential. This paper confirms that expressions of gratitude delivered [...] [Read more.](#)

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Open Innovation in Times of Crisis: An Overview of the Healthcare Sector in Response to the COVID-19 Pandemic

by Zheng Liu, Yongjiang Shi and Bo Yang

J. Open Innov. Technol. Mark. Complex. 2022, 8(1), 21; <https://doi.org/10.3390/joitmc8010021> - 14 Jan 2022

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Abstract The COVID-19 pandemic has caused huge and disruptive technological changes in the healthcare sector, transforming the way businesses and societies function. To respond to the global health crisis, there have been numerous innovation projects in the healthcare sector, including the fast design and [...] [Read more.](#)

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E-Commerce Customers Behavior Research Using Cohort Analysis: A Case Study of COVID-19

by Solomiia Fedushko and Taras Ustyianovych

J. Open Innov. Technol. Mark. Complex. 2022, 8(1), 12; <https://doi.org/10.3390/joitmc8010012> - 06 Jan 2022

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Abstract Cohort analysis is a new practical method for e-commerce customers' research, trends in their behavior, and experience during the COVID-19 crisis. The purpose of the research is to validate the efficiency of this method on the e-commerce records data set and find out [...] [Read more.](#)

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Dynamics of Business Models in Industry-Wide Collaborative Networks for Circularity

by  Aleš Krmela,  Iveta Šimberová and  Viktorija Babiča

J. Open Innov. Technol. Mark. Complex. 2022, 8(1), 3; <https://doi.org/10.3390/joitmc8010003> - 04 Jan 2022

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Abstract Incumbent B2B manufacturing companies join forces and form collaborative networks, called consortia, aiming to increase the circularity of their products. Our research interest lies in the understanding of how the business models (BM) of the companies and the industry are affected by such [...] [Read more.](#)

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Analysis of Digital Governance Transition in South Korea: Focusing on the Leadership of the President for Government Innovation

by  Choong-Sik Chung,  Hanbyul Choi and  Youngmin Cho

J. Open Innov. Technol. Mark. Complex. 2022, 8(1), 2; <https://doi.org/10.3390/joitmc8010002> - 04 Jan 2022

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Abstract This research intends to draw implications for digital governance establishment by analyzing how the president's leadership has worked in the digital government innovation promoted in South Korea over the past 30 years. This research examines the process of digital government development in South [...] [Read more.](#)

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Broadband Connectivity, Government Policies, and Open Innovation: The Crucial IT Infrastructure Contribution in Scotland

by  Sayed Abdul Majid Gilani and  Alessio Faccia



J. Open Innov. Technol. Mark. Complex. 2022, 8(1), 1; <https://doi.org/10.3390/joitmc8010001> - 30 Dec 2021

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Abstract Broadband connectivity is now essential to ensure a competitive advantage for any business. The analysis of Scotland's crucial IT infrastructure contribution supported the authors' thesis that the Government plays a decisive role in Open Innovation ecosystems. Indeed, IT infrastructures are a clear case [...] [Read more.](#)

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The Effect of Learning Orientation and Business Model Innovation on Entrepreneurial Performance: Focused on South Korean Start-Up Companies

by  Byungyun Bae and  Sungyong Choi

J. Open Innov. Technol. Mark. Complex. 2021, 7(4), 245; <https://doi.org/10.3390/joitmc7040245> - 16 Dec 2021





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Abstract The purpose of this study is to empirically confirm the importance of learning orientation in the operation of start-up companies. In the literature, it is well known that this learning orientation plays a big role in improving the performance of start-ups by cultivating [...] [Read more.](#)

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The Right or Wrong to the City? Understanding Citizen Participation in the Pre- and Post-COVID-19 Eras in Malaysia




by  Seng Boon Lim,  Muhammad Usman Mazhar,  Jalaluddin Abdul Malek and  Tan Yigitcanlar
J. Open Innov. Technol. Mark. Complex. 2021, 7(4), 238; <https://doi.org/10.3390/joitmc7040238> - 03 Dec 2021
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Abstract The right to the city concept is widely debated in academic discourse yet ambiguously executed in public discourse. In much of the discussion, the right to the city is advocated as a right that humans should claim—i.e., participating in urban space living. Nonetheless, [...] [Read more.](#)

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What Are the Success Factors for a Partnership with Global Medical Device Companies? Evidence from Korea


by  Dongwoo Kim,  Gyu Ha Ryu,  Kwangsoo Shin and  Kyu-Sung Lee
J. Open Innov. Technol. Mark. Complex. 2021, 7(4), 237; <https://doi.org/10.3390/joitmc7040237> - 03 Dec 2021
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Abstract The medical device industry is uniquely characterized by both resourceful global companies and innovative catching-up companies. The studies by Chatterji have analyzed how large and established medical device companies could better utilize the ideas from innovative groups such as physicians. While the existing [...] [Read more.](#)

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Future Shift for ‘Big Things’: From Starchitecture via Agritecture to Parkitecture



by  Philip Cooke
J. Open Innov. Technol. Mark. Complex. 2021, 7(4), 236; <https://doi.org/10.3390/joitmc7040236> - 02 Dec 2021
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Abstract This article analyses three recent shifts in what called the geography of ‘Big Things’, meaning the contemporary functions and adaptability of modern city centre architecture. We periodise the three styles conventionally into the fashionable ‘Starchitecture’ of the 1990s, the repurposed ‘Agritecture’ of the [...] [Read more.](#)

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Assessment of the Impact of Coaching on a Company’s Performance: A Review of Methods

by  Angelina Roša (Rosha) and  Natalja Lace
J. Open Innov. Technol. Mark. Complex. 2021, 7(4), 233; <https://doi.org/10.3390/joitmc7040233> - 01 Dec 2021
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Abstract The aim of the present study is to provide an analysis of the literature about methods for assessing the impact of coaching on the performance of a company, and elaborate a framework of assessment methods emphasizing their use in the course of coaching [...] [Read more.](#)

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Exploring the Factors Affecting Technology Transfer in Government-Funded Research Institutes: The Korean Case

by Sehwan Ko, Woojoong Kim and Kangwon Lee

J. Open Innov. Technol. Mark. Complex. 2021, 7(4), 228; <https://doi.org/10.3390/joitmc7040228> - 25 Nov 2021

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Abstract Based on the resource dependence theory and the resource-based view, this study examined the impact of the resources and capabilities of government-funded research institutes (GRIs) on technology transfer. Panel analysis was performed on 21 GRIs in South Korea representing three mission types—basic future [...] [Read more.](#)

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by Ben Zhang and Hua Wang

J. Open Innov. Technol. Mark. Complex. 2021, 7(4), 222; <https://doi.org/10.3390/joitmc7040222> - 02 Nov 2021

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Abstract Open innovation diffusion is of great significance to industrial transformation and upgrading, forming an open innovation ecosystem based on the patent publication. However, patent applicants contribute much knowledge to the public domain, and the communication channel, which is network proximity, does not receive [...] [Read more.](#)

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Effective Venture Capital Market Development Concept

by Anita Matisone and Natalja Lace

J. Open Innov. Technol. Mark. Complex. 2021, 7(4), 218; <https://doi.org/10.3390/joitmc7040218> - 01 Nov 2021

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Abstract This paper presents the results of the study on the venture capital (VC) market development drivers in small countries with underdeveloped VC markets. Based on the literature content analysis, the authors developed a comprehensive list of factors influencing VC market status. The relevance [...] [Read more.](#)

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Management Practice in Small and Medium-Sized Enterprises: Problems and Solutions from the Perspective of Open Innovation

by Maris Millers and Elina Gaile-Sarkane

J. Open Innov. Technol. Mark. Complex. 2021, 7(4), 214; <https://doi.org/10.3390/joitmc7040214> - 09 Oct 2021

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Abstract A large proportion of small and medium-sized enterprises are managed by their owners and founders. The goal of this research was to describe the diversity of management practices in owner-managed SMEs. Understanding this diversity will raise awareness of the challenges SMEs are facing [...] [Read more.](#)

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Development of Food Packaging through TRIZ and the Possibility of Open Innovation

by Harry Jeong, Seunggu Lee and Kwangsoo Shin
J. Open Innov. Technol. Mark. Complex. 2021, 7(4), 213; <https://doi.org/10.3390/joitmc7040213> - 09 Oct 2021
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Abstract As the aging population increases, the need for new product development (NPD) for elderly-friendly food packaging is also increasing. Through the use of consumer research, this study derived the following problems when elderly people use food packaging: "The contents easily overflow when holding [...] [Read more.](#)"
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by Seunghoo Jin and Daeyu Kim
J. Open Innov. Technol. Mark. Complex. 2021, 7(4), 210; <https://doi.org/10.3390/joitmc7040210> - 03 Oct 2021
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Abstract Today, innovation is achieved by challenging the existing paradigm through cross-field collaboration, and R&D innovation plays a particularly crucial role. This study analyzed the effects of R&D innovation activities on business management performance in South Korea and examined the role that patents play [...] [Read more.](#)
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How Do Alliance Portfolio Factors Affect a Precision Medicine Firm's Innovation Performance?

by Yucheong Chon and Kwangsoo Shin
J. Open Innov. Technol. Mark. Complex. 2021, 7(3), 203; <https://doi.org/10.3390/joitmc7030203> - 13 Sep 2021
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Abstract Precision medicine is an approach to disease treatment and prevention that seeks to maximize effectiveness by taking into account individual variability in genes, environment, and lifestyle. The medical paradigm has been changed with the emergence of precision medicine and many companies with business [...] [Read more.](#)
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by Sangjae Pyo, Hyoung-Ryul Ma, Sumi Na and Dong-Hoon Oh
J. Open Innov. Technol. Mark. Complex. 2021, 7(3), 196; <https://doi.org/10.3390/joitmc7030196> - 02 Sep 2021
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Abstract In recent years, crowdfunding has attracted the attention of tech startups. It has become a good alternative way to readily raise funds, especially during the early startup stages. However, in the case of mass intelligence, it is quite difficult to ensure the accuracy [...] [Read more.](#)
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by  Katarzyna Turoń and  Andrzej Kubik

J. Open Innov. Technol. Mark. Complex. 2021, 7(3), 195; <https://doi.org/10.3390/joitmc7030195> - 01 Sep 2021

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Abstract The current difficult situation in the world caused by the spread of the COVID-19 virus has led to the development of problems in many branches of the economy. However, it has significantly affected transport, which on the one hand, is the bloodstream of [...] [Read more.](#)

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by  Ayoung Woo,  Bokyung Park,  Hyekyung Sung,  Hyunjin Yong,  Jiyeon Chae and  Seungho Choi

J. Open Innov. Technol. Mark. Complex. 2021, 7(3), 192; <https://doi.org/10.3390/joitmc7030192> - 31 Aug 2021



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Abstract Focusing on competitive dynamics, this study examines the strategic issues Boeing has faced in seeking to maintain its leading position in the airline industry. Boeing's status as a first mover in the aerospace industry has made it a world-leading company; however, the external [...] [Read more.](#)

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From Catching Up to Convergence of the Latecomer Firms: Comparing Behavior and Innovation Systems of Firms in Korea and the US

by  Buru Im and  Keun Lee

J. Open Innov. Technol. Mark. Complex. 2021, 7(3), 191; <https://doi.org/10.3390/joitmc7030191> - 30 Aug 2021

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Abstract This paper addresses the issue of catching and convergence at the level of firms, and investigates whether Korean firms tend to converge toward mature firms represented by the US firms in terms of their behavior and performance as well as firm-level innovations systems. [...] [Read more.](#)

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by  Arta Pīlēna,  Iveta Mežinska and  Inga Lapiņa

J. Open Innov. Technol. Mark. Complex. 2021, 7(3), 187; <https://doi.org/10.3390/joitmc7030187> - 12 Aug 2021

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Abstract Standardization, based on scientific and technological development, provides solutions for optimal level of order in a wide range of industrial, societal and environmental fields. Analogically to the process of open innovation, the development of standards brings together the knowledge and experience of different [...] [Read more.](#)

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by  Gundars Kokins,  Anita Straujuma and  Inga Lapiņa

J. Open Innov. Technol. Mark. Complex. 2021, 7(3), 185; <https://doi.org/10.3390/joitmc7030185> - 06 Aug 2021

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Abstract Customer and Consumer Journeys, touchpoints and Consumer Goals have been widely discussed among Customer Experience theorists and practitioners, establishing that a hierarchical relationship between those exist. Customer Experience driven innovation evaluates opportunities mainly within touchpoints in Customer Journeys. However, there is still a [...] [Read more.](#)

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by  Illyong Ji and  Jinkyung Goo

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Abstract Startups and established firms in service sectors mostly fall into the supplier dominated or information intensive categories of Pavitt's taxonomy. Entrepreneurs in these categories are not isolated from the technological environment because they can also be innovative (at least) by adopting technologies from [...] [Read more.](#)

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Abstract With digitalization and the support of policies, the creative industries have shown rapid growth in the last 20 years. Open forms of collective learning, user engagement and social networks have become popular to generate IPs and values. Meanwhile, government policy can support the [...] [Read more.](#)

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by  Adam R. Szromek

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Abstract The COVID-19 pandemic has reduced or even temporarily halted tourism worldwide. The lack of tourists has huge consequences not only for the tourism industry, but also for the tourism economy. Health tourism enterprises are also affected by this problem, but their situation is [...] [Read more.](#)

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by  Giovanni Schiuma,  Eva Schettini and  Francesco Santarsiero

J. Open Innov. Technol. Mark. Complex. 2021, 7(2), 122; <https://doi.org/10.3390/joitmc7020122> - 28 Apr 2021

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Abstract Enterprises aimed at acquiring a sustainable competitive advantage in the Digital Era are challenged to develop a Transformative Digital Leadership marked by a set of abilities. The paper introduces the Digital Transformative Leadership Compass as an innovative framework to assess wise leaders' characteristics [...] [Read more.](#)

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Three Disruptive Models of New Spatial Planning: "Attention", "Surveillance" or "Sustainable" Capitalisms?

by  Philip Cooke

J. Open Innov. Technol. Mark. Complex. 2021, 7(1), 46; <https://doi.org/10.3390/joitmc7010046> - 27 Jan 2021

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Abstract This paper compares and contrasts three disruptive models of potential and actual new kinds of spatial planning. These include "seasteading", "smart neighbourhoods" and "renewable spatial systems". Each is labelled with distinctive discursive titles, respectively: "Attention Capitalism"; "Surveillance Capitalism" and "Sustainable Capitalism" denoting the [...] [Read more.](#)

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Interconnections: A Systems History of Science, Technology, Leisure, and Fear

by  Fred Phillips

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Abstract It is well known that technological change causes social change, and vice versa. Using system and historical perspectives, this article examines that truth at a finer level of specificity, namely, that social perceptions of interconnectedness influence the progress of science and technology, and [...] [Read more.](#)

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1-4. 2020 Journal of Open Innovation Technology: Market, Complexity

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Multidexterity—A New Metaphor for Open Innovation

by Peter Robbins, Colm O’Gorman, Anne Huff and Kathrin Moeslein

J. Open Innov. Technol. Mark. Complex. 2021, 7(1), 99; <https://doi.org/10.3390/joitmc7010099> - 16 Mar 2021

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Abstract Open innovation will have an important role to play in recovering from the aftermath of the coronavirus and it has already made a crucial contribution. The prism of COVID-19 (“COVID” hereafter) has made more vivid both the complexity and unpredictability of managing innovation. [...] [Read more.](#)

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by Byeong Jo Kim and Maria Tomprou

J. Open Innov. Technol. Mark. Complex. 2021, 7(1), 60; <https://doi.org/10.3390/joitmc7010060> - 07 Feb 2021

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Abstract This study aims to provide practice-oriented evidence regarding the implementation of healthcare data analytics and its impact on the use of new data analytics tools and relevant analytical skills improvement. A quasi-experimental pre-test/post-test controlled study was conducted in a large medical system in [...] [Read more.](#)

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by Kyungtae Yeom, Changhyeon Song, Kwangsoo Shin and Ho Seon Choi

J. Open Innov. Technol. Mark. Complex. 2021, 7(1), 13; <https://doi.org/10.3390/joitmc7010013> - 05 Jan 2021

Abstract In the medical device industry, which is highly value-added and requires multidisciplinary knowledge, major global firms dominate the market, so it is necessary to establish a growth strategy suitable for latecomers. Through a Korean case, it was confirmed that import, diversification, and R&D [...] [Read more.](#)

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by Anjar Priyono, Fazli Idris and Sarina Binti Abdul Halim Lim

J. Open Innov. Technol. Mark. Complex. 2020, 6(4), 188; <https://doi.org/10.3390/joitmc6040188> - 12 Dec 2020

Abstract This study aims to examine how small and medium enterprises manage the tensions between organizational agility and efficiency. Organizational agility is a multidimensional concept where each of its components can interact differently with efficiency. The tensions between other capabilities have been explored in [...] [Read more.](#)

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by Jin Chen, Linghui Han and Guannan Qu

J. Open Innov. Technol. Mark. Complex. 2020, 6(4), 172; <https://doi.org/10.3390/joitmc6040172> - 01 Dec 2020

Abstract It has become a burgeoning trend for the innovation paradigm to shift from producer-dominant to non-producer centric. Based on a critical review of the non-producer innovation literature, we identified several limitations of existing non-producer innovation paradigms—grassroots innovation, free innovation, common innovation, and social [...] [Read more.](#)

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by Rocío González-Sánchez, Eva Pelechano-Barahona, Sara Alonso-Muñoz and Fernando E. García-Muñia

J. Open Innov. Technol. Mark. Complex. 2020, 6(4), 167; <https://doi.org/10.3390/joitmc6040167> - 26 Nov 2020

Abstract The important influence that incremental innovation has, both on the organization's results and on the development of disruptive innovations in a synergistic relationship of positive sum, makes it necessary to deepen its study. In the context of absorptive capacity, this paper aims to [...] [Read more.](#)

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The Wine Influencers: Exploring a New Communication Model of Open Innovation for Wine Producers—A Netnographic, Factor and AGIL Analysis

by Marzia Ingrassia, Luca Altamore, Simona Bacarella, Pietro Columba and Stefania Chironi

J. Open Innov. Technol. Mark. Complex. 2020, 6(4), 165; <https://doi.org/10.3390/joitmc6040165> - 26 Nov 2020

Abstract Wine Influencers (WIs) represent a new type of independent third party endorsers that are progressively establishing themselves within social networks. This study analyzes the characteristics of the activity of WIs and the communication model used via Instagram. Netnographic Analysis, Factor Analysis and AGIL [...] [Read more.](#)

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by Tao Li, Lei Ma, Zheng Liu and Kaitong Liang

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Abstract In the context of the application of artificial intelligence in an intellectual property trading platform, the number of demanders and suppliers that exchange scarce resources is growing continuously. Improvement of computational power promotes matching efficiency significantly. It is necessary to greatly reduce energy [...] [Read more.](#)

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How Do Face Consciousness and Public Self-Consciousness Affect Consumer Decision-Making?

by Seung-Hee Lee and Jane Workman

J. Open Innov. Technol. Mark. Complex. 2020, 6(4), 144; <https://doi.org/10.3390/joitmc6040144> - 12 Nov 2020

Abstract Many individual differences affect consumers in the decision-making process (i.e., what to purchase; when to purchase). Face consciousness and public self-consciousness affect when in the fashion life cycle consumers decide to purchase, as well as what to purchase. Both face consciousness and public [...] [Read more.](#)

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by Xiaojing Huang, Lei Ma, Rao Li and Zheng Liu

J. Open Innov. Technol. Mark. Complex. 2020, 6(4), 135; <https://doi.org/10.3390/joitmc6040135> - 06 Nov 2020

Abstract High-tech zones are an important platform for local governments in China to carry out regional collaborative innovation and an important carrier for the construction of a regional innovation ecosystem. The evolution path of innovation ecosystem in a high-tech zone is divided into three [...] [Read more.](#)

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J. Open Innov. Technol. Mark. Complex. 2020, 6(4), 131; <https://doi.org/10.3390/joitmc6040131> - 01 Nov 2020

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Abstract We aim to develop an innovative way to alter existing business models to conquer the growth limits of exponential paradox by applying the open innovation concept to the design of creative business models. Our research question is as follows: *How can we innovate [...] Read more.*

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J. Open Innov. Technol. Mark. Complex. 2020, 6(4), 126; <https://doi.org/10.3390/joitmc6040126> - 24 Oct 2020

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Abstract The health, economic, and social consequences of the SARS-CoV-2 virus have highlighted the need for collaboration among all agents to face a scenario that we have not before seen. The aims of this paper are to analyze the involvement that large Spanish companies [...] [Read more.](#)

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by  Marta Macias Aragonés,  Gloria de la Viña Nieto,  María Nieto Fajardo,  David Páez Rodríguez,  James Gaffey,  Jennifer Attard,  Helena McMahon,  Pat Doody,  Judit Anda Ugarte,  M^a Natividad Pérez-Camacho,  M^a Sol Cuenca Martín,  Antonio José Giráldez Morales and  Filippo Giancarlo Martinelli

J. Open Innov. Technol. Mark. Complex. 2020, 6(4), 115; <https://doi.org/10.3390/joitmc6040115> - 14 Oct 2020

Abstract Regional bioeconomy development is directly linked to the availability and access to bioresources. Therefore, it is necessary to trigger opportunities for information and communications technologies (ICTs), the Internet of things (IoT) and Industry 4.0 solutions to increase the efficiency of high potential value [...] [Read more.](#)

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by  Yongjiang Shi,  Chao Lu,  Hong Hou,  Lu Zhen and  Jialun Hu

J. Open Innov. Technol. Mark. Complex. 2021, 7(1), 38; <https://doi.org/10.3390/joitmc7010038> - 19 Jan 2021

Abstract China has emerged as the second largest economy in the world during the globalization in the last forty years. However, in the last decade, Chinese manufacturing has also demonstrated its dark side causing wide range of concerns globally and directly jeopardize people's health [...] [Read more.](#)

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Does Open Innovation Enhance a Large Firm's Financial Sustainability? A Case of the Korean Food Industry

by Harry Jeong, Kwangsoo Shin, Eungdo Kim and Seunghyun Kim

J. Open Innov. Technol. Mark. Complex. 2020, 6(4), 101; <https://doi.org/10.3390/joitmc6040101> - 01 Oct 2020

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Abstract This study aims to explore whether a firm's financial sustainability is enhanced by open innovation especially after a global financial crisis. There are few studies on the relationship between open innovation and financial sustainability. This study aimed to fill the literature gap by [...] [Read more.](#)

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A Comparative Analysis of Corporate R&D Capability and Innovation: Focused on the Korean Manufacturing Industry

by Jaeseong Kim and Sang Ok Choi

J. Open Innov. Technol. Mark. Complex. 2020, 6(4), 100; <https://doi.org/10.3390/joitmc6040100> - 01 Oct 2020

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Abstract In order to improve innovation performance, it is necessary to analyze a series of processes that are connected to innovation performance, as well as R&D input. Since industrial characteristics affect innovation performance, the differences between corporate R&D capabilities in the industrial sector should [...] [Read more.](#)

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by Seunghoo Jin and Kangwon Lee

J. Open Innov. Technol. Mark. Complex. 2020, 6(4), 94; <https://doi.org/10.3390/joitmc6040094> - 24 Sep 2020

Abstract Korea's small- and medium-sized enterprises are desperate to improve their performance through engaging in technological innovation, due to the fierce competition prevalent in a low growth economic environment. However, most small- and medium-sized enterprises are having difficulty responding to changes in the economic [...] [Read more.](#)

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Towards a Longitudinal Outlook on Industry Transition Management

by Kwok Shum, Fumio Kodama and Tomoatsu Shibata

J. Open Innov. Technol. Mark. Complex. 2020, 6(3), 79; <https://doi.org/10.3390/joitmc6030079> - 11 Sep 2020

Abstract Innovation has been and continues to be an important theme in management literature, and almost any improvement upon the status quo could be regarded as some sort of innovation. Such an improvement could be made in terms of an increase of efficiency for [...] [Read more.](#)

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by Twahirwa Evariste, Willie Kasakula, James Rwigema and Raja Datta

J. Open Innov. Technol. Mark. Complex. 2020, 6(3), 73; <https://doi.org/10.3390/joitmc6030073> - 03 Sep 2020

Abstract Vehicular Ad Hoc Network (VANET) is a subclass of Mobile Ad Hoc Network that mainly consists of moving and/or stationary vehicles, connected through wireless protocols such as IEEE 802.11p and wireless access in vehicular environments (WAVE). With the evolution of the Internet of [...] [Read more.](#)

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by Anokye M. Adam

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Abstract This study contributes to the scant finance literature on information flow from international economic policy uncertainty to emerging stock markets in Africa, using daily US economic policy uncertainty as a proxy and the daily stock market index for Botswana, Egypt, Ghana, Kenya, Morocco, [...] [Read more.](#)

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The Intensity of Organizational Change and the Perception of Organizational Innovativeness; with Discussion on Open Innovation

by Jaeseong Kim and Sang Ok Choi

J. Open Innov. Technol. Mark. Complex. 2020, 6(3), 66; <https://doi.org/10.3390/joitmc6030066> - 20 Aug 2020

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Abstract Each individual member of an organization must recognize and lead innovation, which can be affected by human resource development (HRD) investments and organizational changes. In this study, we aimed to verify how HRD investment at the individual level relates to employee perceptions of [...] [Read more.](#)

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by  Venni V. Krishna

J. Open Innov. Technol. Mark. Complex. 2020, 6(3), 61; <https://doi.org/10.3390/joitmc6030061> - 03 Aug 2020

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Abstract Science as a social institution has evolved as the most powerful, highly influential, and sought out institution after the conflicts between science and religion following Galileo. Knowledge as a public good, scientific peer review of science, the prominence of open publications, and the [...] [Read more.](#)

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A Need for Co-Evolution between Technological Innovations and Social Innovations

by  Pae Kun Choi



J. Open Innov. Technol. Mark. Complex. 2020, 6(3), 54; <https://doi.org/10.3390/joitmc6030054> - 28 Jul 2020

Abstract The 4th industrial revolution must be approached from the perspective of industrial ecosystem in order to lead to industrial reorganization facing after deindustrialization. This is because, as the characteristics of agriculture and manufacturing differ, the basic characteristics of industries related to the 4th [...] [Read more.](#)

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The Competence of Project Team Members and Success Factors with Open Innovation

by  Minjeong Oh and  Sungyong Choi

J. Open Innov. Technol. Mark. Complex. 2020, 6(3), 51; <https://doi.org/10.3390/joitmc6030051> - 22 Jul 2020

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Abstract The purpose of this paper is to examine the relationship between emotional, managerial, and intellectual competence of team members, which refer to the LDQ (Leadership Development Questionnaire) and impact on project success. (1) Background: Large and complex projects are being conducted in a [...] [Read more.](#)

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Collaborative Governance for Responsible Innovation in the Context of Sharing Economy: Studies on the Shared Bicycle Sector in China

by  Zheng Liu,  Lei Ma,  Tianyu Huang and  Hengzhao Tang

J. Open Innov. Technol. Mark. Complex. 2020, 6(2), 35; <https://doi.org/10.3390/joitmc6020035> - 06 May 2020

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Abstract The shared bicycle sector is a new type of rental business that combines the sharing economy with technology platforms. With its convenience, efficiency and low cost, the business has become popular in China. However, alongside the development of the shared bicycle industry, the [...] [Read more.](#)

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The Passway of Women Entrepreneurship: Starting from Social Capital with Open Innovation, through to Knowledge Sharing and Innovative Performance

by Made Setini, Ni Nyoman Kerti Yasa, I Wayan Gede Supartha, I Gusti Ayu Ketut Giantari and Ismi Rajiani

J. Open Innov. Technol. Mark. Complex. 2020, 6(2), 25; <https://doi.org/10.3390/joitmc6020025> - 17 Apr 2020

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Abstract Customs and culture should create women's independence to actualize themselves in an era of emerging social progress in order to lead to the domination of women in the development of creative businesses. This research examines the role of social capital and whether it [...] [Read more.](#)

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by Philip Cooke

J. Open Innov. Technol. Mark. Complex. 2020, 6(2), 24; <https://doi.org/10.3390/joitmc6020024> - 08 Apr 2020

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Abstract In her study of 'Surveillance Capitalism', Shoshana Zuboff cites Google's parent firm Alphabet's legal customer-purchase agreement for the parent firm's Nest thermostats. These impose 'oppressive privacy and security consequences' requiring sensitive information to be shared through 'Internet-of-Things' (IoT) networks with other domestic and [...] [Read more.](#)

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Do Synergies Pop up Magically in Digital Transformation-Based Retail M&A? Valuing Synergies with Real Options Application

by Andrejs Čirjevskis

J. Open Innov. Technol. Mark. Complex. 2020, 6(1), 18; <https://doi.org/10.3390/joitmc6010018> - 06 Mar 2020

Abstract This paper aims to explore and to illustrate success factors of reciprocal synergies of digital transformation-based merger and acquisition (M&A) deals in the grocery retail industry. The author carried out a case study on the merger of Ahold Delhaize in 2016. The paper's [...] [Read more.](#)

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Gender Diversity in Boards of Directors: A Bibliometric Mapping

by Eva María Sánchez-Teba, María Dolores Benítez-Márquez and Paloma Porras-Alcalá

J. Open Innov. Technol. Mark. Complex. 2021, 7(1), 12; <https://doi.org/10.3390/joitmc7010012> - 31 Dec 2020

Abstract The literature on gender diversity in boards of directors has expanded significantly in recent years, due to the fact that women are increasingly holding higher management positions within the company hierarchy, clearly demonstrating that certain characteristics of women have a positive impact on [...] [Read more.](#)

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A Business Model Framework to Characterize Digital Multisided Platforms

by Marco Ardolino , Nicola Sacconi , Federico Adrodegari and Marco Perona

J. Open Innov. Technol. Mark. Complex. 2020, 6(1), 10; <https://doi.org/10.3390/joitmc6010010> (registering DOI) - 02 Feb 2020

Abstract Businesses grounded upon multisided platforms (MSPs) are found in a growing number of industries, thanks to the recent developments in Internet and digital technologies. Digital MSPs enable multiple interactions among users of different sides through information and communication technologies. The understanding of the [...] [Read more.](#)

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Typology and Unified Model of the Sharing Economy in Open Innovation Dynamics

by Yeji Kim and Minhwa Lee

J. Open Innov. Technol. Mark. Complex. 2019, 5(4), 102; <https://doi.org/10.3390/joitmc5040102> - 17 Dec 2019

Abstract The sharing economy is emerging as one of the hottest issues of the Fourth Industrial Revolution. The ownership paradigm was dominant during the First and Second Industrial Revolutions, so the formation of the sharing economy was almost non-existent, but it has grown to [...] [Read more.](#)

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Smart City 4.0 from the Perspective of Open Innovation

by Yeji Yun and Minhwa Lee

J. Open Innov. Technol. Mark. Complex. 2019, 5(4), 92; <https://doi.org/10.3390/joitmc5040092> - 19 Nov 2019

Abstract The purpose of a Smart City is to solve its inherent problems while simultaneously reducing its expenditure and improving its quality of life. Through the 4th Industrial Revolution technology, the advantages of Smart City are estimated to overcome the city's expenses with city [...] [Read more.](#)

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Multiple Security Certification System between Blockchain Based Terminal and Internet of Things Device: Implication for Open Innovation

by Bong-Gyeol Choi , EuiSeob Jeong and Sang-Woo Kim

J. Open Innov. Technol. Mark. Complex. 2019, 5(4), 87; <https://doi.org/10.3390/joitmc5040087> - 17 Oct 2019

Abstract As the number of Internet of Things (IoT) devices increases, services expand and illegal hacking and infringement methods become more sophisticated, an effective solution for blockchain technology is required as a fundamental solution to security threats. In this paper, we develop the security [...] [Read more.](#)

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Customer Happiness and Open Innovation in the Esthetics Education for the Elderly Generation

by  **Kyu-Ok Shin** ,  **Na-Gyeong Yeom** and  **Hang-Sik Park**

J. Open Innov. Technol. Mark. Complex. 2019, 5(4), 86; <https://doi.org/10.3390/joitmc5040086> - 16 Oct 2019

Abstract In Korean society, where aging is rapidly progressing, the happiness of the elderly is no longer an economic issue. An esthetics program has the effect of improving depression or low self-esteem to increase psychological and physical satisfaction, which is a good way to [...] [Read more.](#)

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Towards a City-Based Cultural Ecosystem Service Innovation Framework as Improved Public-Private-Partnership Model—A Case Study of Kaohsiung Dome

by  **Min-Ren Yan** ,  **Hui-Lan Chi** ,  **Jui-Ying Yang** and  **Kuo-Ming Chien**

J. Open Innov. Technol. Mark. Complex. 2019, 5(4), 85; <https://doi.org/10.3390/joitmc5040085> - 16 Oct 2019

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Abstract This paper explains the concept of a city-based cultural ecosystem service, and how innovations and systematic operations management can help an international city to improve the efficiency and effectiveness of the Public-Private Partnership (PPP) model. Previous studies suggest that most of the PPP [...] [Read more.](#)

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by  **HanJun Cho** ,  **Joo Yeon Park** and  **Chang Soo Sung**

J. Open Innov. Technol. Mark. Complex. 2019, 5(4), 83; <https://doi.org/10.3390/joitmc5040083> - 12 Oct 2019

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Abstract The purpose of this study is to identify the difference in firm performance and employment growth between successful and failed capital procurement through equity-based crowdfunding. We conduct an empirical analysis using entire crowdfunding projects that attempted to raise capital through equity-based crowdfunding in [...] [Read more.](#)

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by  Lih-Ren Li

J. Open Innov. Technol. Mark. Complex. 2019, 5(4), 79; <https://doi.org/10.3390/joitmc5040079> - 05 Oct 2019

Abstract Industry 4.0, started in Germany in 2011, was fervently promoted by various advanced countries and followed by the introduction of “smart manufacturing”. As an innovative strategy of the manufacturing industry “smart manufacturing” has attracted considerable attention in the field of academics and practice. [...] [Read more.](#)

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by  Karine Oganisjana and  Konstantins Kozlovskis

J. Open Innov. Technol. Mark. Complex. 2019, 5(4), 76; <https://doi.org/10.3390/joitmc5040076> - 26 Sep 2019

Abstract Customer engagement in different phases of creation of new products and services is argued to be a significant success factor by some scholars and practitioners, and unnecessary—by others. The paper analyses the findings of a pilot study, conducted with the intention to see [...] [Read more.](#)

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by  Insoo Lee and  Eungdo Kim

J. Open Innov. Technol. Mark. Complex. 2019, 5(4), 73; <https://doi.org/10.3390/joitmc5040073> - 23 Sep 2019

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Abstract The pharmaceutical industry is a high-technology industry that requires a combination of in-depth knowledge from various fields. It is characterized by high cost, high risk and a long-term perspective due to the high level of regulation. In addition, it is known that research [...] [Read more.](#)

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Building Networks to Harness Innovation Synergies: Towards an Open Systems Approach to Sustainable Development

by  **Rajah Rasiah**

J. Open Innov. Technol. Mark. Complex. 2019, 5(3), 70; <https://doi.org/10.3390/joitmc5030070> - 12 Sep 2019

Abstract Open innovation has become a popular approach, especially since 2003, as people began purposively managing, evolving and harnessing knowledge flows across organizational boundaries but through increasing connections with systemic knowledge nodes relevant to the innovation process. The creation and appropriation of such knowledge [...] [Read more.](#)

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Development of a Class Model for Improving Creative Collaboration Based on the Online Learning System (Moodle) in Korea

by  **Eunjoo Kim**,  **Hangsik Park** and  **JungUn Jang**

J. Open Innov. Technol. Mark. Complex. 2019, 5(3), 67; <https://doi.org/10.3390/joitmc5030067> - 06 Sep 2019

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Abstract This study aims to develop a Modular Object-Oriented Dynamic Learning Environment (Moodle)-based online learning system and derive a class model to enhance learners' creative collaboration capabilities. The research method for this is first to analyze the functional elements of the online learning system [...] [Read more.](#)

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How to Improve Performance and Diversity of Government-Funded Research Institute Ecosystem? Focus on Result Sharing and Feedback Policy

by  **Namjun Cha**,  **Junseok Hwang** and  **Eungdo Kim**

J. Open Innov. Technol. Mark. Complex. 2019, 5(3), 66; <https://doi.org/10.3390/joitmc5030066> - 05 Sep 2019

Abstract Despite its importance to the performance outcome of an organization, there are very few studies on how feedback mechanism impacts ecosystems of government-funded research institutes (GIs). This study focuses on the effect of the feedback mechanism on the average performance and diversity of [...] [Read more.](#)

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A Study on Technology Development Performance and Technology Commercialization Performance According to the Technology Development Capability of SMEs Focusing on a Comparative Analysis of Technology Business Groups

by  Hyunji Kim ,  Sun-Young Park and  Won-IL Joh

J. Open Innov. Technol. Mark. Complex. 2019, 5(3), 65; <https://doi.org/10.3390/joitmc5030065> - 30 Aug 2019

Cited by 2

Abstract Recently, a lot of small- and mid-sized companies have emerged through continuous technological development and start-up successes despite insufficient scales and resources compared to medium companies or conglomerates in fierce market competition. Technological development capability, which is required to acquire, select, or utilize [...] [Read more.](#)

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Developing an Evaluation Framework for Selecting Optimal Medical Devices

by  Juhyeok Park ,  Eungdo Kim and  Kwangsoo Shin

J. Open Innov. Technol. Mark. Complex. 2019, 5(3), 64; <https://doi.org/10.3390/joitmc5030064> - 28 Aug 2019

Abstract The objective of this study is to summarize the current general evaluation process that stakeholders use to evaluate single or multiple medical devices to select the optimal medical device. This study constructed a novel evaluation framework to select the optimal medical device by [...] [Read more.](#)

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Impact of Unlisted Small and Medium-Sized Enterprises' Business Strategies on Future Performance and Growth Sustainability

by  Won Park ,  Chang Soo Sung and  Chung Gyu Byun

J. Open Innov. Technol. Mark. Complex. 2019, 5(3), 60; <https://doi.org/10.3390/joitmc5030060> - 22 Aug 2019

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Abstract This study aims to identify, from among business strategies presented in Miles and Snow (1978, 2003), those that increase the future performance or growth sustainability of unlisted small and medium-sized enterprises (SMEs) in Korea. (This study applied the scope of SMEs based on [...] [Read more.](#)

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Supplier, Tailor, and Facilitator: Typology of Platform Business Models

by  **Junic Kim** and  **Jihong Min**

J. Open Innov. Technol. Mark. Complex. 2019, 5(3), 57; <https://doi.org/10.3390/joitmc5030057> - 18 Aug 2019

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Abstract The platform business model is widely used because it is capable of various open innovation deliverables. However, it has a high probability of failure, caused by a variety of value streams that follow the two-sided market theory (each side has a distinct group [...]) [Read more.](#)

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Digital Innovation Adoption and Its Economic Impact Focused on Path Analysis at National Level

by  **HyunJee Park** and  **Sang Ok Choi**

J. Open Innov. Technol. Mark. Complex. 2019, 5(3), 56; <https://doi.org/10.3390/joitmc5030056> - 16 Aug 2019

Abstract Purpose: The advancement of technologies and their adoption affects the socio-economic growth of nations. This research is focused on how this innovation adoption path is linked to economic growth of nations since the previous IT revolution has been combined with existing industries and [...]) [Read more.](#)

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Digital Maturity and Corporate Performance: The Case of the Baltic States

by  **Yulia Eremina**,  **Natalja Lace** and  **Julija Bistрова**

J. Open Innov. Technol. Mark. Complex. 2019, 5(3), 54; <https://doi.org/10.3390/joitmc5030054> - 09 Aug 2019

Abstract Enterprise digitalization is a way for companies to make their processes more efficient, to enhance their marketing strategies, and improve their competitive moat within the global competitive landscape. To see how fast Baltic companies are adapting to digitalization trend and, therefore, how good [...]) [Read more.](#)

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Intangible Resources and Internationalization for the Innovation Performance of Chinese High-Tech Firms

by  **Yuhan Liu** ,  **Junic Kim** and  **Jaewook Yoo**

J. Open Innov. Technol. Mark. Complex. 2019, 5(3), 52; <https://doi.org/10.3390/joitmc5030052> - 06 Aug 2019

Abstract The purpose of this study is to explore the relationships between three intangible resources and the innovation performance of Chinese high-tech firms, and the moderating effect of internationalization on these relationships. We implement a hierarchical multiple regression analysis using data for 274 Chinese [...] [Read more.](#)

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by  **Jung hyun Kim** ,  **Monica Young-Shin Chun** ,  **Duong Thi Hong Nhung** and  **Jeonghwan Lee**

J. Open Innov. Technol. Mark. Complex. 2019, 5(3), 51; <https://doi.org/10.3390/joitmc5030051> - 05 Aug 2019

Abstract The automobile industry is experiencing unprecedented change. Despite its century-old history based mostly in the art of mechanics, increased development of technology and heightened awareness of environmental issues has pushed traditional automobile manufacturers to completely re-examine their strategies. It has also newly invited [...] [Read more.](#)

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by  **Fumio Kodama**

J. Open Innov. Technol. Mark. Complex. 2019, 5(3), 50; <https://doi.org/10.3390/joitmc5030050> - 30 Jul 2019

Abstract In order to comprehend the prospect of a future automobile industry, the development path of the automobile industry is reviewed. It is found that the industry has experienced an incessant conceptual transformation, dominant design, emission control, fuel efficiency, product integrity, modularization, and hybridization. [...] [Read more.](#)

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Sustainability and Continuous Improvement of Organization: Review of Process-Oriented Performance Indicators

by  **Aija Medne** and  **Inga Lapina**

J. Open Innov. Technol. Mark. Complex. 2019, 5(3), 49; <https://doi.org/10.3390/joitmc5030049> - 26 Jul 2019

Abstract Nowadays, organizations are trying to have, not only a competitive advantage in the market, but also in sustainable development. The purpose of this paper is to investigate the process of measuring organizations' sustainability using process-oriented indicators. The research seeks to address the following [...] [Read more.](#)

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Exploring Innovation Ecosystem from the Perspective of Sustainability: Towards a Conceptual Framework

by  **Zheng Liu** and  **Victoria Stephens**

J. Open Innov. Technol. Mark. Complex. 2019, 5(3), 48; <https://doi.org/10.3390/joitmc5030048> - 25 Jul 2019

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Abstract With technology advancement, industrial revolution 4.0, businesses nowadays are in competition in terms of product, service and business model innovation. Meanwhile, the emergent socio-ecological crisis is making it increasingly important to identify the impact of business on environment and the society. To date, [...] [Read more.](#)

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Developing an Improved Risk-Adjusted Net Present Value Technology Valuation Model for the Biopharmaceutical Industry

by  **Jonghak Woo**,  **Eungdo Kim**,  **Tae-Eung Sung**,  **Jongtaik Lee**,  **Kwangsoo Shin** and  **Jeonghee Lee**

J. Open Innov. Technol. Mark. Complex. 2019, 5(3), 45; <https://doi.org/10.3390/joitmc5030045> - 22 Jul 2019

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Abstract The financial valuation of a drug that is still under development is required for various purposes. The risk-adjusted net present value (r-NPV) method, which recently emerged in the biotech industry, uses the development attrition rate as a discount factor to reflect risk during [...] [Read more.](#)

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Universities in the National Innovation Systems: Emerging Innovation Landscapes in Asia-Pacific

by [Venni V. Krishna](#)

J. Open Innov. Technol. Mark. Complex. 2019, 5(3), 43; <https://doi.org/10.3390/joitmc5030043> - 17 Jul 2019

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Abstract Historically, universities and institutions of higher learning have gone through three academic revolutions, namely, teaching, research, and innovation. Universities and Higher Educational Institutions (HEIs) in the last two decades have come to occupy an important part in the national innovation systems (NIS), which [...] [Read more.](#)

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Effect of Student Activity Participation on Accounting Education

by [Yeon-Hee Park](#) , [Tae-Young Paik](#) and [Jeong-Ho Koo](#)

J. Open Innov. Technol. Mark. Complex. 2019, 5(3), 40; <https://doi.org/10.3390/joitmc5030040> - 27 Jun 2019

Abstract Accounting education focuses on delivering knowledge to students. Most student are passive, behaving as bystanders or listeners in lecturer-oriented learning. However, student-centered learning requires active and positive engagement from students to generate effective learning. Board games represent a key driving tool in inducing [...] [Read more.](#)

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Productivity Slowdown, Exhausted Opportunities and the Power of Human Ingenuity—Schumpeter Meets Georgescu-Roegen

by [Andreas Pyka](#) , [Kristina Bogner](#) and [Sophie Urmetzer](#)

J. Open Innov. Technol. Mark. Complex. 2019, 5(3), 39; <https://doi.org/10.3390/joitmc5030039> - 26 Jun 2019

Abstract Western economies nowadays are confronted with a predicted productivity slowdown resulting in diminishing rates of economic growth. While some scholars see these developments as an indication of the approaching end of growth due to fully exploited technological opportunities, this article contends that the [...] [Read more.](#)

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What Dynamic Managerial Capabilities Are Needed for Greater Strategic Alliance Performance?

by  Andrejs Čirjevska

J. Open Innov. Technol. Mark. Complex. 2019, 5(2), 36; <https://doi.org/10.3390/joitmc5020036> - 24 Jun 2019

Abstract Despite the rising interest in the nature of open innovation and its implications for greater strategic alliance performance, limited attention has been paid to what the dynamic managerial capabilities underpinning those processes are. Moreover, only limited research has examined how open innovation is [...] [Read more.](#)

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The Effect of Personal Value on CSV (Creating Shared Value)

by  Jeongho Koo,  Suhyun Baek and  Sunah Kim

J. Open Innov. Technol. Mark. Complex. 2019, 5(2), 34; <https://doi.org/10.3390/joitmc5020034> - 21 Jun 2019

Abstract The purpose of this study is to reveal the effect of personal value as a part of creating shared value (CSV). We extracted factors of personal value through a literature review. Personal value consists of social commitment, self-actualization, goal setting, and solidarity. Self-actualization [...] [Read more.](#)

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Port Digitalization with Open Data: Challenges, Opportunities, and Integrations

by  Tommi Inkinen,  Reima Helminen and  Janne Saarikoski

J. Open Innov. Technol. Mark. Complex. 2019, 5(2), 30; <https://doi.org/10.3390/joitmc5020030> - 16 May 2019

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Abstract Digitalization is frequently addressed in recent economic and social scientific literature. This paper applies a distinction to digital data (raw data) and digital technologies (including both software platforms and hardware solutions). The open data is defined as follows: it is publicly available and [...] [Read more.](#)

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World Turned Upside Down: Entrepreneurial Decline, Its Reluctant Myths and Troubling Realities

by  Philip Cooke

J. Open Innov. Technol. Mark. Complex. 2019, 5(2), 22; <https://doi.org/10.3390/joitmc5020022> - 09 Apr 2019

Cited by 2

Abstract The aim of this paper is to attempt to understand why the popular academic and policy field of promoting, studying and evangelising “entrepreneurship” should have been associated with great success but, in the past twenty years or more in many advanced economies, so [...] [Read more.](#)

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Operational-Efficiency Improvement of Public R and D Management Agencies in South Korea

by  Byung Yong Hwang ,  Eun Song Bae ,  Heung Deug Hong and  Dae-cheol Kim

J. Open Innov. Technol. Mark. Complex. 2019, 5(1), 13; <https://doi.org/10.3390/joitmc5010013> - 06 Mar 2019

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Abstract Public R and D management agencies have been taking on key roles in the national R and D ecosystem. The purpose of this study is to suggest ways to improve the operational efficiency of public R and D management agencies based on analysis [...] [Read more.](#)

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Basic Income with High Open Innovation Dynamics: The Way to the Entrepreneurial State

by  Jinhyo Joseph Yun ,  KyungBae Park ,  Sung Duck Hahm and  Dongwook Kim

J. Open Innov. Technol. Mark. Complex. 2019, 5(3), 41; <https://doi.org/10.3390/joitmc5030041> - 11 Jul 2019

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Abstract Currently, the world economy is approaching a near-zero growth rate. Governments should move from a market-failure-oriented to a system-failure-oriented approach to understanding this problem, and transform to an entrepreneurial state to motivate the Schumpeterian dynamics of open innovation. We want to answer the [...] [Read more.](#)

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by  Tan Yigitcanlar ,  Mark Wilson and  Md Kamruzzaman

J. Open Innov. Technol. Mark. Complex. 2019, 5(2), 24; <https://doi.org/10.3390/joitmc5020024> - 24 Apr 2019

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Abstract Cities have started to restructure themselves into 'smart cities' to address the challenges of the 21st Century—such as climate change, sustainable development, and digital disruption. One of the major obstacles to success for a smart city is to tackle the mobility and accessibility [...] [Read more.](#)

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Vol. 6, Issue 1, (March 2020) 1 Papers

1-6. 2018 Journal of Open Innovation Technology: Market, Complexity

Open Access Article



Research on Industrial Policy from the Perspective of Demand-Side Open Innovation—A Case Study of Shenzhen New Energy Vehicle Industry

by Lu Qu and Yanwei Li

J. Open Innov. Technol. Mark. Complex. 2019, 5(2), 31; <https://doi.org/10.3390/joitmc5020031> - 28 May 2019

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Abstract Nowadays, new energy vehicles play an important role in the transformation and upgrade of China's energy security, energy conservation and other industries. At present, there are 26 pilot cities for the demonstration of new energy vehicles in China; however, the operation effect and [...] [Read more.](#)

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How Resources of Universities influence Industry Cooperation

by Gyeong Min Nam , Dae Geon Kim and Sang Ok Choi

J. Open Innov. Technol. Mark. Complex. 2019, 5(1), 9; <https://doi.org/10.3390/joitmc5010009> - 15 Feb 2019

Abstract In Korea, cooperation between university and company is mainly encouraged by government policy as the Triple Helix's statist model. Since 2003, the government started a variety of university financial support program, and in 2014, it reached to the point that 31 ministries conducted [...] [Read more.](#)

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Targeting Open Market with Strategic Business Innovations: A Case Study of Growth Dynamics in Essential Oil and Aromatherapy Industry

by Min-Ren Yan , Chun-Han Wang , Nelson Jose Cruz Flores and Ying-Yueh Su

J. Open Innov. Technol. Mark. Complex. 2019, 5(1), 7; <https://doi.org/10.3390/joitmc5010007> - 05 Feb 2019

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Abstract Essential oil and aromatherapy industry is increasingly gaining prominence in the global market. Previous studies have been carried out on the benefits of essential oils in healthcare and as part of the healing arts of many cultures, as a proven method of caring [...] [Read more.](#)

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by  Sang-Don Lee and  Sun-Soon Kwon

J. Open Innov. Technol. Mark. Complex. 2018, 4(4), 48; <https://doi.org/10.3390/joitmc4040048> - 08 Oct 2018

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Abstract This study estimates the impact of potential climate change, and human interference (anthropogenic deforestation), on temperate forest carbon pool change in the capital area of South Korea, using a dynamic global vegetation model (DGVM). Additionally, the characteristics of forest carbon pool change were [...] [Read more.](#)

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by  Andreas Pyka ,  Matthias Mueller and  Muhamed Kudic

J. Open Innov. Technol. Mark. Complex. 2018, 4(4), 44; <https://doi.org/10.3390/joitmc4040044> - 21 Sep 2018

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Abstract Innovation policy and business strategy often expect that investing in private and public research and development will immediately produce a flow of products and processes with high commercial and social returns. Policymakers and managers implicitly follow the logic underlying most linear innovation models [...] [Read more.](#)

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by  Saidi Atanda Mustapha

J. Open Innov. Technol. Mark. Complex. 2018, 4(4), 43; <https://doi.org/10.3390/joitmc4040043> - 21 Sep 2018

Abstract The development of the financial sector has been a major growth driver in all economies, especially in emerging economies. Part of the financial innovations in the sector in recent times is the electronic payment system. Several studies in developed countries have substantiated the [...] [Read more.](#)

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Sustainable Production Scheduling in Open Innovation Perspective under the Fourth Industrial Revolution

by  Sang-Oh Shim ,  KyungBae Park and  SungYong Choi

J. Open Innov. Technol. Mark. Complex. 2018, 4(4), 42; <https://doi.org/10.3390/joitmc4040042> - 21 Sep 2018

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Abstract This research addresses a specific issue in the field of operation scheduling. Even though there are lots of researches on the field of planning and scheduling, a specific scheduling problem is introduced here. We focus on the operation scheduling requirements that the Fourth [...] [Read more.](#)

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A Study on the Factors Affecting Decrease in the Government Corruption and Mediating Effects of the Development of ICT and E-Government—A Cross-Country Analysis

by  Kangwon Lee ,  Sang Ok Choi ,  Jinha Kim and  Mijin Jung

J. Open Innov. Technol. Mark. Complex. 2018, 4(3), 41; <https://doi.org/10.3390/joitmc4030041> - 03 Sep 2018

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Abstract Purpose: As the development of high technology, information and communications technology (ICT) and e-government has pursued improving efficiency, productivity, democracy, responsiveness and transparency in government, the demand for efficient government administration systems and government transparency has increased. Thus, this study aims to derive [...] [Read more.](#)

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by  BangRae Lee ,  EunSoo Sohn ,  DongKyu Won ,  WoonDong Yeo ,  KwangHoon Kim and  Sanggook Kim

J. Open Innov. Technol. Mark. Complex. 2018, 4(3), 39; <https://doi.org/10.3390/joitmc4030039> - 22 Aug 2018

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Abstract Precision medicine has received a lot of attention in recent years and we have not yet found any research cases that apply Data Envelopment Analysis (DEA) to investment decision making in this area. The purpose of this study is to analyze the relative [...] [Read more.](#)

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J. Open Innov. Technol. Mark. Complex. 2018, 4(3), 38; <https://doi.org/10.3390/joitmc4030038> - 18 Aug 2018

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Abstract The new logics of competitions are mostly based on exploiting relationships to implement new mechanisms in managing Knowledge. Today, a successful company should be, lean, modular, and with a smart approach to new products development. In this context, the source of competitive advantage [...] [Read more](#).

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J. Open Innov. Technol. Mark. Complex. 2018, 4(3), 36; <https://doi.org/10.3390/joitmc4030036> - 09 Aug 2018

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Abstract Humans now have a life expectancy of nearly 90 years and, as a result, society is rapidly aging. These longer life spans have, however, increased the average length of hospitalization for elderly adults suffering from chronic diseases such as cancer, diabetes, and encephalopathy. [...] [Read more](#).

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by  **Lei Ma** ,  **Tao Li** ,  **Jinxi Wu** and  **Dandan Yan**

J. Open Innov. Technol. Mark. Complex. 2018, 4(3), 35; <https://doi.org/10.3390/joitmc4030035> - 09 Aug 2018

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Abstract Nowadays, the way of Internet travel in China presents diversified development. Rapid expansion in the personal mobile terminal and Internet infrastructure for the Internet travels to the ecosystem of development and evolution. This paper explores the influence of the expansion of the e-hailing [...] [Read more](#).

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Measuring the Efficiency of U.S. Pharmaceutical Companies Based on Open Innovation Types

by  **Kisoon Shin**,  **Daeho Lee**,  **Kwangsoo Shin** and  **Eungdo Kim**

J. Open Innov. Technol. Mark. Complex. 2018, 4(3), 34; <https://doi.org/10.3390/joitmc4030034> - 08 Aug 2018

Cited by 3

Abstract The pharmaceutical industry, where research and development (R&D) efficiency is central to company survival, has recently faced significant challenges. To increase efficiency, companies must implement strategies such as open innovation (OI), wherein they sell their intellectual property, maximize their use of external resources, [...] [Read more.](#)

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by  **Cinzia Battistella**,  **Alberto F. De Toni** and  **Elena Pessot**

J. Open Innov. Technol. Mark. Complex. 2018, 4(3), 33; <https://doi.org/10.3390/joitmc4030033> - 07 Aug 2018

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Abstract Recently, concepts and principles from the Complexity Theory (or, generally speaking, the complexity sciences) have been applied as a perspective for capturing the influence of the context, interaction, and adaption in the innovation processes, such as the ones enabled in the business incubators. [...] [Read more.](#)

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Learning Mode and Strategic Concept for the 4th Industrial Revolution

by  **Fumio Kodama**

J. Open Innov. Technol. Mark. Complex. 2018, 4(3), 32; <https://doi.org/10.3390/joitmc4030032> - 06 Aug 2018

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Abstract Compared to information technology (IT) revolutions, which are characterized by disruptive innovations, the innovations required for the 4th Industrial Revolution will be characterized by the cumulateness of the innovations. Therefore, we will need new modes of technological learning and new strategic concepts. The [...] [Read more.](#)

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Evaluating Determinant Priority of License Fee in Biotech Industry

by  Jeong Hee Lee ,  Tae-Eung Sung ,  Eungdo Kim and  Kwangsoo Shin

J. Open Innov. Technol. Mark. Complex. 2018, 4(3), 30; <https://doi.org/10.3390/joitmc4030030> - 02 Aug 2018

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Abstract This research aimed to build a solid basis through analytic hierarchy process (AHP) analysis to develop a reliable and practical valuation model that reflects the characteristics of the biotech industry and propose a reference formula to estimate the license fee by drug class [...] [Read more.](#)

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by  Taesun Kim

J. Open Innov. Technol. Mark. Complex. 2018, 4(3), 28; <https://doi.org/10.3390/joitmc4030028> - 18 Jul 2018

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Abstract (1) Background: As we enter the experience economy, industrial design has focused on social innovation and has flowed into social design. This fresh design perspective has been employed in citizen-centered-policy-making through empathic approaches that emphasize the necessity of public service design. Focusing on [...] [Read more.](#)

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Exploring the Entrepreneurial Intention of Female Students in Italy

by  Luca Ferri ,  Gianluca Ginesti ,  Rosanna Spanò and  Annamaria Zampella

J. Open Innov. Technol. Mark. Complex. 2018, 4(3), 27; <https://doi.org/10.3390/joitmc4030027> - 03 Jul 2018

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Abstract The aim of this paper is to investigate the entrepreneurial intention of Italian female students according to the Ajzen's Theory of Planned Behaviour (TPB). In particular, we analysed the women's intention to become entrepreneurs because the relevance of the female entrepreneurship phenomenon is [...] [Read more.](#)

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Managing Strategic Partnerships with Universities in Innovation Ecosystems: A Research Agenda

by  Giovanni Schiuma and  Daniela Carlucci

J. Open Innov. Technol. Mark. Complex. 2018, 4(3), 25; <https://doi.org/10.3390/joitmc4030025> - 28 Jun 2018

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Abstract This paper proposes a research agenda for understanding how to establish and develop strategic partnerships with universities in innovation ecosystems, aimed to support the development of companies' entrepreneurial and innovation development capacities. In particular, the paper suggests an integrated model to explore how [...] [Read more](#).
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Efficiency Analysis of the Royalty System from the Perspective of Open Innovation

by  Byung Yong Hwang ,  Hee Ju Jun ,  Mee Hyang Chang and  Dae Cheol Kim

J. Open Innov. Technol. Mark. Complex. 2018, 4(3), 22; <https://doi.org/10.3390/joitmc4030022> - 22 Jun 2018

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Abstract The purpose of this study is to suggest efficiency improvement using the analysis of the efficiency of the royalty system for government-funded research institutes (GRIs) belonging to the National Research Council of Science & Technology (NST). Twenty three GRIs' royalty incomes and expenses [...] [Read more](#).
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How to Respond to the Fourth Industrial Revolution, or the Second Information Technology Revolution? Dynamic New Combinations between Technology, Market, and Society through Open Innovation

by  MinHwa Lee ,  JinHyo Joseph Yun ,  Andreas Pyka ,  DongKyu Won ,  Fumio Kodama ,  Giovanni Schiuma ,  HangSik Park ,  Jeonghwan Jeon ,  KyungBae Park ,  KwangHo Jung ,  Min-Ren Yan ,  SamYoul Lee and  Xiaofei Zhao

J. Open Innov. Technol. Mark. Complex. 2018, 4(3), 21; <https://doi.org/10.3390/joitmc4030021> - 21 Jun 2018

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Abstract Since Klaus Schwab and the World Economic Forum declared the arrival of the Fourth Industrial Revolution, there has been much discussion about it. However, there is no commonly agreed-upon definition of the Fourth Industrial Revolution. Therefore, we attempted to answer the following four [...] [Read more](#).
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Competitive Advantage and Its Impact on New Product Development Strategy (Case Study: Toos Nirro Technical Firm)

by  Akram Sadat Hosseini ,  Sanaz Soltani and  Mohammad Mehdizadeh

J. Open Innov. Technol. Mark. Complex. 2018, 4(2), 17; <https://doi.org/10.3390/joitmc4020017> - 26 May 2018

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Abstract Although new product development and its importance for companies as a new approach is accompanied by risks, identification of competitive advantage factors can be helpful for managers in reduction of decision-making risks. The Toos Nirro technical firm is a leading company in meeting [...] [Read more.](#)

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Synergy in Knowledge-Based Innovation Systems at National and Regional Levels: The Triple-Helix Model and the Fourth Industrial Revolution

by  Loet Leydesdorff

J. Open Innov. Technol. Mark. Complex. 2018, 4(2), 16; <https://doi.org/10.3390/joitmc4020016> - 16 May 2018

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Abstract Unlike national systems of innovation, a knowledge-based economy is grounded in the volatility of discursive knowledge enabling us to specify expectations. Expectations can be improved by testing them against observations. Furthermore, expectations can be codified in different ways; for example, in terms of [...] [Read more.](#)

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Innovation through Coopetition: Future Directions and New Challenges

by  [Valentina Della Corte](#)

J. Open Innov. Technol. Mark. Complex. 2018, 4(4), 47; <https://doi.org/10.3390/joitmc4040047> - 02 Oct 2018

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Abstract The paper focuses on the topic of the relationship between coopetition and innovation as well as on their impact on competitive advantage. Before getting to the central issue, a literature review on the topic of coopetition is carried out, in order to catch [...] [Read more.](#)

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A Study on the Effectiveness of Entrepreneurship Education Programs in Higher Education Institutions: A Case Study of Korean Graduate Programs

by  [Chung-Gyu Byun](#),  [Chang Soo Sung](#),  [Joo Y. Park](#) and  [Dae Soo Choi](#)

J. Open Innov. Technol. Mark. Complex. 2018, 4(3), 26; <https://doi.org/10.3390/joitmc4030026> - 28 Jun 2018

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Abstract The purpose of this study is to verify the effectiveness of the entrepreneurship curriculum and the educational program recognized by students and graduates. This paper has studied the improvement of curriculum and educational programs operated by the Graduate School of Entrepreneurship by using [...] [Read more.](#)

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Benefits and Costs of Closed Innovation Strategy: Analysis of Samsung's Galaxy Note 7 Explosion and Withdrawal Scandal

by  [Jinhyo Joseph Yun](#),  [JeongHwan Jeon](#),  [KyungBae Park](#) and  [Xiaofei Zhao](#)

J. Open Innov. Technol. Mark. Complex. 2018, 4(3), 20; <https://doi.org/10.3390/joitmc4030020> - 21 Jun 2018

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Abstract The Samsung Galaxy Note 7 has been withdrawn from the market after a number of the devices exploded after its launch in 2016. Our research seeks to answer three questions and proceeds as follows. Did the closed innovation of Samsung trigger the Galaxy [...] [Read more.](#)

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Student customized creative education model based on open innovation

by [Sun ah Kim](#), [Hyo yun Ryoo](#) and [Hee joo Ahn](#)

J. Open Innov. Technol. Mark. Complex. **2017**, 3(1), 6; <https://doi.org/10.1186/s40852-016-0051-y> (registering DOI)

Received: 20 July 2016 / Accepted: 27 December 2016 / Published: 3 March 2017

Cited by 5 | [PDF Full-text](#) (985 KB)

Abstract As the creative economy has developed, the university has been given an important role of nurturing creative talents that companies desire to have. The most important objective in creative education is to provide a support system and a good environment for fostering creativity. [...] [Read more.](#)

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Natural disasters and deterrence of economic innovation: a case of temporary job losses by Hurricane Sandy

by [JiYoung Park](#), [Minsu Son](#) and [ChangKeun Park](#)

J. Open Innov. Technol. Mark. Complex. **2017**, 3(1), 5; <https://doi.org/10.1186/s40852-017-0055-2> (registering DOI)

Received: 16 September 2016 / Accepted: 31 January 2017 / Published: 1 March 2017

Cited by 1 | [PDF Full-text](#) (1263 KB)

Abstract Quantifying many natural disasters economically is a global concern. Even in the U.S., economic damages stemming from natural disasters are experienced annually. Unexpected natural disasters result in various economic and business management disruptions. Especially, complex inter-industrial and inter-regional connections in established economies may [...] [Read more.](#)

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Transfer of know-how based on learning outcomes for development of open innovation

by [Mikus Dubickis](#) and [Elīna Gaile-Sarkane](#)

J. Open Innov. Technol. Mark. Complex. **2017**, 3(1), 4; <https://doi.org/10.1186/s40852-017-0053-4> (registering DOI)

Received: 31 August 2016 / Accepted: 11 January 2017 / Published: 22 February 2017

Cited by 3 | [PDF Full-text](#) (607 KB)

Abstract The Paper focuses on the inbound know-how transfer for the development of open innovation as an approach to business management. It can be a challenging task for useful and meaningful transfer of external know-how to create value, thus the addressed research questions are: [...] [Read more.](#)

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Medical innovation and social externality

by [Chul-Young Roh](#) and [SangHeon Kim](#)

J. Open Innov. Technol. Mark. Complex. **2017**, 3(1), 3; <https://doi.org/10.1186/s40852-017-0056-1> (registering DOI)

Received: 31 December 2016 / Accepted: 31 January 2017 / Published: 16 February 2017

Cited by 3 | [PDF Full-text](#) (351 KB)

Abstract Healthcare expenditure in the United States has grown and will continue to increase. The increasing healthcare expenditure is to reduce real income as well as to diminish total utility and increase financial stresses. This study argues that the most critical factor that increases [...] [Read more.](#)

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Effects to implement the open-innovation coordinative strategies between manufacturer and retailer in reverse supply chain

by [Sungwook Yoon](#) and [Sukjae Jeong](#)

J. Open Innov. Technol. Mark. Complex. **2017**, 3(1), 2; <https://doi.org/10.1186/s40852-017-0054-3> (registering DOI)

Received: 31 July 2016 / Accepted: 31 January 2017 / Published: 10 February 2017

Cited by 2 | [PDF Full-text](#) (1764 KB)

Abstract A reverse supply chain, as a post-consumption activity, aims at extracting value from products at end of their life cycle (Mafakher and Nasiri, Journal of Cleaner Production 59: 185–196, 2013). As well, company's awareness is attracting increasing attention toward sustainable business practices. Open-innovation [...] [Read more.](#)

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Sources of scientific creativity: participant observation of a public research institute in Korea

by [Youngjoo Jang](#) and [Youngjoo Ko](#)


J. Open Innov. Technol. Mark. Complex. **2017**, 3(1), 1; <https://doi.org/10.1186/s40852-017-0052-5> (registering DOI)

Received: 4 August 2016 / Accepted: 29 September 2016 / Published: 17 January 2017

Cited by 2 | [PDF Full-text](#) (712 KB)

Abstract This study aims to find the factors of scientists' creative thoughts by observing directly their laboratories in Korea Research Institute of Chemical Technology (KRICT). The participant observation was performed for 5 months from December 2013 through April 2014, and the research object was [...] [Read more.](#)

J. Open Innov. Technol. Mark. Complex., Volume 3, Issue 2 (June 2017)

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Complex spaces: global innovation networks & territorial innovation systems in information & communication technologies

by [Philip Cooke](#)

J. Open Innov. Technol. Mark. Complex. **2017**, 3(2), 9; <https://doi.org/10.1186/s40852-017-0060-5> (registering DOI)

Received: 20 March 2017 / Accepted: 25 May 2017 / Published: 22 June 2017

[Cited by 4](#) | [PDF Full-text](#) (1151 KB)

Abstract This paper brings together two related bodies of theory that assist understanding of processes of socio-technical system change on the global scale. These are, first, the Global Value Chain perspective (GVC) that has now mutated into Global Production Networks (GPN) and, more recently, [...] [Read more](#).

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by [ChangKeun Park](#), [JiYoung Park](#) and [Simon Choi](#)


J. Open Innov. Technol. Mark. Complex. **2017**, 3(2), 8; <https://doi.org/10.1186/s40852-017-0059-y> (registering DOI)

Received: 4 January 2017 / Accepted: 22 April 2017 / Published: 15 May 2017

[PDF Full-text](#) (1328 KB)

Abstract Technological innovation in transportation and the related industrial and entrepreneurial ecosystems can reduce urban environmental risks, maintaining urban environments. This study measures inter-county spillovers of the greenhouse gas (GHG) emissions impact associated with economic activity changes in the Southern California region when emerging [...] [Read more](#).

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A case study on the improvement of institution of “High-Risk High-Return R&D” in Korea

by [Byung Yong Hwang](#), [Hee Ju Jun](#), [Mee Hyang Chang](#) and [Dae Cheol Kim](#)

J. Open Innov. Technol. Mark. Complex. **2017**, 3(3), 19; <https://doi.org/10.1186/s40852-017-0069-9> (registering DOI)

Received: 17 August 2017 / Accepted: 5 September 2017 / Published: 29 September 2017

[Cited by 1](#) | [PDF Full-text](#) (486 KB)

Abstract Despite the increase of government spending on R&D in South Korea, there have been limits in enhancing the challenging trait and creativity of research outcomes. A new approach to the current mode of R&D is considered necessary to tackle this problem. In 2015, [...] [Read more](#).

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Cluster policy: insights from the German leading edge cluster competition

by [M. Rothgang](#), [U. Cantner](#), [J. Dehio](#), [D. Engel](#), [M. Fertig](#), [H. Graf](#), [S. Hinzmann](#), [E. Linshalm](#), [M. Ploder](#), [A. -M. Scholz](#) and [S. Töpfer](#)

J. Open Innov. Technol. Mark. Complex. **2017**, 3(3), 18; <https://doi.org/10.1186/s40852-017-0064-1> (registering DOI)

Received: 3 July 2017 / Accepted: 28 July 2017 / Published: 22 September 2017

[Cited by 3](#) | [PDF Full-text](#) (1832 KB)

Abstract With its Leading-Edge Cluster Competition (in German: Spitzencluster-Wettbewerb; LECC), the Federal Ministry of Education and Research (Bundesministerium für Bildung und Forschung, BMBF) is supporting innovation clusters in a nationwide contest for the first time. In three waves, 15 cluster initiatives were selected and [...] [Read more](#).

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Connecting corporations and communities: Towards a theory of social inclusive open innovation

by [Anil Gupta](#), [Anamika Dey](#) and [Gurdeep Singh](#)

J. Open Innov. Technol. Mark. Complex. **2017**, 3(3), 17; <https://doi.org/10.1186/s40852-017-0062-3> (registering DOI)

Received: 12 June 2017 / Accepted: 6 July 2017 / Published: 21 September 2017

[Cited by 4](#) | [PDF Full-text](#) (1554 KB)

Abstract Despite pervasiveness of the market forces and supplementary role of the state and in some cases, even civil society organisations, there are unmet social needs which remain unaddressed by the existing institutions. With industrial growth becoming jobless, the need for new models of [...] [Read more](#).

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Americanization in Lithuania as a driving force for globalization

by [Agnė Šimelytė](#), [Renata Korsakienė](#) and [Deniss Ščaulovs](#)

J. Open Innov. Technol. Mark. Complex. **2017**, 3(3), 16; <https://doi.org/10.1186/s40852-017-0070-3> (registering DOI)

Received: 1 July 2017 / Accepted: 5 September 2017 / Published: 11 September 2017

[PDF Full-text](#) (607 KB)

Abstract Purpose: The purpose of the article is to analyze Americanization patterns in Lithuania by exploring socio-economic and cultural factors and to determine the impact of Americanization on the level of globalization of the country and its economy. **Design/methodology:** The research employs both qualitative [...] [Read more](#).

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Exploitation of architectural knowledge and innovation

by [Junghee Han](#)

J. Open Innov. Technol. Mark. Complex. **2017**, 3(3), 15; <https://doi.org/10.1186/s40852-017-0068-x> (registering DOI)

Received: 14 April 2017 / Accepted: 23 August 2017 / Published: 6 September 2017

[Cited by 2](#) | [PDF Full-text](#) (1335 KB)

Abstract Knowledge across several segments appears to be a necessary ingredient to innovation in the case of an architectural shift. Innovative firms utilize their knowledge stock to confront the competitive market. This paper demonstrates that exploitation of accumulated knowledge leads to architectural innovation. Ironically, [...] [Read more](#).

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Taking advantage of emergence for complex innovation eco-systems

by Deborah Dougherty

J. Open Innov. Technol. Mark. Complex. **2017**, 3(3), 14; <https://doi.org/10.1186/s40852-017-0067-y> (registering DOI)

Received: 10 June 2017 / Accepted: 18 August 2017 / Published: 30 August 2017

Cited by 4 | PDF Full-text (558 KB)

Abstract Our most pressing societal problems such as enhancing health care, developing alternate energy, revitalizing cities, and advancing the economy are complex innovation eco-systems. Complex innovation eco-systems are the next frontier in technology and innovation management, and require a transformation in strategic and institutional [...] [Read more.](#)

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The business model prism: managing and innovating business models of arts and cultural organisations

by Giovanni Schiuma and Antonio Lerro

J. Open Innov. Technol. Mark. Complex. **2017**, 3(3), 13; <https://doi.org/10.1186/s40852-017-0066-z> (registering DOI)

Received: 14 July 2017 / Accepted: 10 August 2017 / Published: 30 August 2017

Cited by 5 | PDF Full-text (922 KB)

Abstract Purpose: This paper introduces and analyses the Business Model Prism (BMP) for the arts and cultural organizations as multidimensional framework to map the “as is” structure and the logic of their business model as well as to drive the design of innovation initiatives, [...] [Read more.](#)

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Capitalism as a complex adaptive system and its growth

by Ulrich Witt

J. Open Innov. Technol. Mark. Complex. **2017**, 3(3), 12; <https://doi.org/10.1186/s40852-017-0065-0> (registering DOI)

Received: 11 July 2017 / Accepted: 8 August 2017 / Published: 19 August 2017

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Abstract Complex adaptive systems consist of a multitude of agents from whose individual adaptation efforts the adaptive behavior of the system as a whole emerges. In this paper it will be argued that capitalism is a complex adaptive system. Except for its particular mode [...] [Read more.](#)

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Sustainable development of smart cities: a systematic review of the literature

by Evelin Priscila Trindade, Marcus Phoebe Farias Hinnig, Eduardo Moreira da Costa, Jamile Sabatini Marques, Rogério Cid Bastos and Tan Yigitcanlar

J. Open Innov. Technol. Mark. Complex. **2017**, 3(3), 11; <https://doi.org/10.1186/s40852-017-0063-2> (registering DOI)

Received: 16 May 2017 / Accepted: 22 July 2017 / Published: 4 August 2017

Cited by 3 | PDF Full-text (904 KB)

Abstract This paper aims to analyse scientific studies focusing on both environmental sustainability and smart city concepts to understand the relationship between these two. In order to do so the study identifies information about researchers, models, frameworks and tools focused on the chosen themes. [...] [Read more.](#)

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A ground-up “Quaternary” innovation strategy for South Korea using entrepreneurial ecosystem platforms

by Philip Cooke


J. Open Innov. Technol. Mark. Complex. **2017**, 3(3), 10; <https://doi.org/10.1186/s40852-017-0061-4> (registering DOI)

Received: 21 May 2017 / Accepted: 21 June 2017 / Published: 12 July 2017

PDF Full-text (577 KB)

Abstract This paper offers an account of the recent economic slowdown in the growth trajectory formerly enjoyed by South Korea as one of the first “Asian Tigers”. Indicators are provided that, unlike the others, Hong Kong, Singapore and Taiwan that have continued their upward [...] [Read more.](#)

J. Open Innov. Technol. Mark. Complex., Volume 3, Issue 4 (December 2017)

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Dedicated innovation systems to support the transformation towards sustainability: creating income opportunities and employment in the knowledge-based digital bioeconomy

by [Andreas Pyka](#)

J. Open Innov. Technol. Mark. Complex. **2017**, 3(4), 27; <https://doi.org/10.1186/s40852-017-0079-7> (registering DOI)

Received: 22 August 2017 / Accepted: 11 December 2017 / Published: 28 December 2017

[Cited by 1](#) | [PDF Full-text](#) (450 KB)

Abstract In order to counter something to the most thrilling challenges of mankind at the beginning of the twenty-first century, production and consumption systems need to transform towards sustainability. We argue that the knowledge-based bioeconomy and digitalization are two promising technological approaches which require [...] [Read more](#).

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Cost aggregation in export logistics chain

by [Esa Hämäläinen](#), [Elen Twrdy](#) and [Tommi Inkinen](#)

J. Open Innov. Technol. Mark. Complex. **2017**, 3(4), 26; <https://doi.org/10.1186/s40852-017-0077-9> (registering DOI)

Received: 27 June 2017 / Accepted: 14 November 2017 / Published: 23 November 2017

[Cited by 2](#) | [PDF Full-text](#) (956 KB)

Abstract This paper analyses cost aggregation in a supply chain. It provides a literature overview on the key concepts of cost aggregation, multimodal transport, logistic chain and maritime transport. The focuses on the value adding process with logistics data and assesses the costs accumulation [...] [Read more](#).

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Innovation systems research: an agenda for developing countries

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J. Open Innov. Technol. Mark. Complex. **2017**, 3(4), 25; <https://doi.org/10.1186/s40852-017-0076-x> (registering DOI)

Received: 17 May 2017 / Accepted: 6 November 2017 / Published: 21 November 2017

[Cited by 1](#) | [PDF Full-text](#) (471 KB)

Abstract The continued relevance of the systems approach to the study of innovation, especially in developed countries, has been the subject of recent discourses. This paper argues that with respect to developing countries, discussions on innovation systems are yet to be exhausted. Against this [...] [Read more](#).

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Technology convergence, open innovation, and dynamic economy

by [Hang Sik Park](#)

J. Open Innov. Technol. Mark. Complex. **2017**, 3(4), 24; <https://doi.org/10.1186/s40852-017-0074-z> (registering DOI)

Received: 4 July 2017 / Accepted: 30 October 2017 / Published: 21 November 2017

[Cited by 1](#) | [PDF Full-text](#) (658 KB)

Abstract The world economy has been confronting low economic growth for several years. Many experts agree that concepts such as openness, convergence, and creation of new market demand through new emerging technologies (e.g. Internet of Things, big data, and Artificial Intelligence) may solve the [...] [Read more](#).

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Beyond fusion towards IoT by way of open innovation: an investigation based on the Japanese machine tool industry 1975-2015

by [Fumio Kodama](#) and [Tomoatsu Shibata](#)

J. Open Innov. Technol. Mark. Complex. **2017**, 3(4), 23; <https://doi.org/10.1186/s40852-017-0073-0> (registering DOI)

Received: 26 August 2017 / Accepted: 28 October 2017 / Published: 13 November 2017

[PDF Full-text](#) (1126 KB)

Abstract In a last few decades, innovation research scholars proposed several new concepts, one after another, but independently, and in a chronological sequence: technology fusion; digital convergence; disruptive technology; open innovation; and IoT (Internet of Things). Each concept has its own explaining power for [...] [Read more](#).

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The effect of Hallyu on tourism in Korea

by Eun-song Bae, Meehyang Chang, Eung-Suk Park and Dae-cheol Kim

J. Open Innov. Technol. Mark. Complex. **2017**, 3(4), 22; <https://doi.org/10.1186/s40852-017-0075-y> (registering DOI)

Received: 8 September 2017 / Accepted: 30 October 2017 / Published: 10 November 2017

[PDF Full-text](#) (499 KB)

Abstract The purposes of the study are to estimate inbound tourism demand and to analyze the effect of the Korean Wave and Economic indicators on it. For these purposes, we examined the influence of Korean Wave, GDP, CPI and exchange rate on inbound tourism [...] [Read more](#).

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The features of economic growth in the case of Latvia and Lithuania

by Irena Danileviciene and Natalja Lace

J. Open Innov. Technol. Mark. Complex. **2017**, 3(4), 21; <https://doi.org/10.1186/s40852-017-0071-2> (registering DOI)

Received: 12 July 2017 / Accepted: 9 September 2017 / Published: 24 October 2017

[PDF Full-text](#) (776 KB)

Abstract Innovation based growth and development is a hot topic in all economies of the world. Openness of mind, openness of businesses and openness of innovation are the key characteristics and success factors of the global world today. Growth and development strategies are becoming [...] [Read more](#).

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Arts catalyst of creative organisations for the fourth industrial revolution

by Giovanni Schiuma

J. Open Innov. Technol. Mark. Complex. **2017**, 3(4), 20; <https://doi.org/10.1186/s40852-017-0072-1> (registering DOI)

Received: 14 September 2017 / Accepted: 13 October 2017 / Published: 23 October 2017

[Cited by 2](#) | [PDF Full-text](#) (457 KB)

Abstract Today's digital era challenges organisations not only to follow the technological trajectories, by developing new technological solutions and/or adopting the latest disruptive technology, but most importantly to become creative and resilient organic systems that are open to changes and keen to experiment and [...] [Read more](#).

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Erratum to: Smartness that matters: towards a comprehensive and humancentred characterisation of smart cities

by [Alexander Prado Lara](#), [Eduardo Moreira Da Costa](#), [Thiago Zilinski Furlani](#) and [Tan Yigitcanlar](#)
J. Open Innov. Technol. Mark. Complex. **2016**, 2(1), 8; <https://doi.org/10.1186/s40852-016-0035-y> (registering DOI)
Received: 1 July 2016 / Accepted: 1 July 2016 / Published: 6 July 2016
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Abstract

After publication of the original article (Lara et al. 2016), it was noted that one of the author's names was presented incorrectly[...] [Full article](#)

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Innovation capability and its role in enhancing the relationship between TQM practices and innovation performance

by [Maha Mohammed Yusr](#)
J. Open Innov. Technol. Mark. Complex. **2016**, 2(1), 6; <https://doi.org/10.1186/s40852-016-0031-2> (registering DOI)
Received: 7 November 2015 / Accepted: 26 January 2016 / Published: 22 February 2016
[Cited by 11](#) | [PDF Full-text](#) (583 KB)

Abstract Innovation plays a critical role in predicting the long-term survival of organizations, determining an organization's success and sustaining its global competitiveness, especially in an environment where technologies, competitive position and customer demands can change almost overnight, and where the life-cycle of products and [...] [Read more.](#)

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Research ethics education in Korea for overcoming culture and value system differences

by [Hwan-Jin Nho](#)
J. Open Innov. Technol. Mark. Complex. **2016**, 2(1), 4; <https://doi.org/10.1186/s40852-016-0030-3> (registering DOI)
Received: 23 October 2015 / Accepted: 17 January 2016 / Published: 25 January 2016
[Cited by 4](#) | [PDF Full-text](#) (497 KB)

Abstract Although ethical standards and procedures for research in Korea have developed closer to global standards, applying those standards and procedures have led significant conflicts widely due to the cultural differences. In Korea where relationship-centered East Asian values are crucial, it is difficult for [...] [Read more.](#)

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A study on the accountability of the regional R&D program: the case of APCTP

by [Jinwon Kang](#) and [Seongsik Cho](#)
J. Open Innov. Technol. Mark. Complex. **2016**, 2(1), 3; <https://doi.org/10.1186/s40852-016-0029-9> (registering DOI)
Received: 23 October 2015 / Accepted: 30 December 2015 / Published: 20 January 2016
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Abstract In order to develop Asia-Pacific Center for Theoretical Physics (APCTP), it is necessary to respond various kind of accountabilities around research environment as well as research capacity and international reputation. APCTP, the case of this research, has achieved its goal through proper handling [...] [Read more.](#)

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The scope of coaching in the context of organizational change

by [Angelina Rosha](#) and [Natalja Lace](#)
J. Open Innov. Technol. Mark. Complex. **2016**, 2(1), 2; <https://doi.org/10.1186/s40852-016-0028-x> (registering DOI)
Received: 3 September 2015 / Accepted: 6 January 2016 / Published: 16 January 2016
[Cited by 2](#) | [PDF Full-text](#) (613 KB)


Abstract The aim of this paper is to explore the scope of coaching in the context of organizational change considering peculiar issues associated with the use of coaching in Latvia and Lithuania. This two-stage study seeks to answer the following research questions. How is [...] [Read more.](#)

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Valuations using royalty data in the life sciences area—focused on anticancer and cardiovascular therapies

by [Jeong Hee Lee](#), [Youngyong In](#), [I-Hyung Lee](#) and [Joon Woo Lee](#)
J. Open Innov. Technol. Mark. Complex. **2016**, 2(1), 1; <https://doi.org/10.1186/s40852-015-0025-5> (registering DOI)
Received: 23 July 2015 / Accepted: 8 December 2015 / Published: 15 January 2016
[Cited by 3](#) | [PDF Full-text](#) (3953 KB)

Abstract Purpose: This research seeks to answer the basic question, "How can we build up the formula to estimate the proper royalty rate and up-front payment using the data I can get simply as input?" This paper suggests a way to estimate the proper [...] [Read more.](#)

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Smartness that matters: towards a comprehensive and human-centred characterisation of smart cities

by [Alexander Prado Lara](#), [Eduardo Moreira Da Costa](#), [Thiago Zilinski Furlani](#) and [Tan Yigitcanlar](#)

J. Open Innov. Technol. Mark. Complex. **2016**, 2(2), 8; <https://doi.org/10.1186/s40852-016-0034-z> (registering DOI)

Received: 6 April 2016 / Accepted: 27 May 2016 / Published: 23 June 2016

[Cited by 8](#) | [PDF Full-text](#) (803 KB)

Abstract The term ‘smart cities’ is a widely used, but at the same time a highly fuzzy concept. The fuzziness hinders our understanding on the benefits of its adoption, and explains the existence of many relevant activities with fragmented or distorted views of what [...] [Read more](#).

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Dynamics from open innovation to evolutionary change

by [JinHyo Joseph Yun](#), [DongKyu Won](#) and [Kyungbae Park](#)

J. Open Innov. Technol. Mark. Complex. **2016**, 2(2), 7; <https://doi.org/10.1186/s40852-016-0033-0> (registering DOI)

Received: 6 January 2015 / Accepted: 27 April 2016 / Published: 14 May 2016

[Cited by 37](#) | [PDF Full-text](#) (1734 KB)

Abstract We created conceptual models that people may use to analyze and forecast the dynamic effects of open innovation, which we applied to the smartphone sector using a model-based analysis approach. In addition, we built an open innovation simulation model for the smartphone sector. [...] [Read more](#).

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Study for selection of industrial areas suitable to small and medium-sized enterprises (SMEs) in Korea

by [Jun-Hwan Park](#), [Bangrae Lee](#), [Yeong-Ho Moon](#) and [Lee-Nam Kwon](#)

J. Open Innov. Technol. Mark. Complex. **2016**, 2(3), 19; <https://doi.org/10.1186/s40852-016-0045-9> (registering DOI)

Received: 6 July 2016 / Accepted: 3 September 2016 / Published: 27 September 2016

[Cited by 5](#) | [PDF Full-text](#) (389 KB)

Abstract In this study, the investigation into basic methodology for selecting the industrial areas suitable to the small and medium-sized enterprises (SMEs) in Korea was performed by using the statistical data about the corporations (2010 ~ 2012) as the quantitative evidences containing the number [...] [Read more](#).

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Innovation decision of Tunisian service firms: an empirical analysis

by [Hanan Sdiri](#) and [Mohamed Ayadi](#)

J. Open Innov. Technol. Mark. Complex. **2016**, 2(3), 18; <https://doi.org/10.1186/s40852-016-0044-x> (registering DOI)

Received: 22 March 2016 / Accepted: 27 August 2016 / Published: 7 September 2016

[PDF Full-text](#) (498 KB)

Abstract The purpose of this paper is twofold. First, it investigates the way by which Tunisian service firms make their decision to innovate: simultaneously (one-stage model) or sequentially (two-stage model). Afterwards, once the innovation-making-decision way is selected, the paper analyzes its main determinants. Using [...] [Read more](#).

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What kind of innovations do we need to secure our future?

by [Ulrich Witt](#)

J. Open Innov. Technol. Mark. Complex. **2016**, 2(3), 17; <https://doi.org/10.1186/s40852-016-0043-y> (registering DOI)

Received: 23 June 2016 / Accepted: 16 August 2016 / Published: 2 September 2016

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Abstract The question of what kind of innovations can secure our future is in this paper put in perspective with the unknown risks which innovations may imply. Innovations sometimes turn out to cause severe negative externalities after they have successfully passed the market test. [...] [Read more](#).

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Theory of open inclusive innovation for reciprocal, responsive and respectful outcomes: coping creatively with climatic and institutional risks

by [Anil K. Gupta](#), [Anamika R. Dey](#), [Chintan Shinde](#), [Hiranmay Mahanta](#), [Chetan Patel](#), [Ramesh Patel](#), [Nirmal Sahay](#), [Balram Sahu](#), [P. Vivekanandan](#), [Sundaram Verma](#), [P. Ganesham](#), [Vivek Kumar](#), [Vipin Kumar](#), [Mahesh Patel](#) and [Pooja Tole](#)

J. Open Innov. Technol. Mark. Complex. **2016**, 2(3), 16; <https://doi.org/10.1186/s40852-016-0038-8> (registering DOI)

Received: 30 May 2016 / Accepted: 24 June 2016 / Published: 26 August 2016

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Abstract Given the economic squeeze world over, search for what we call frugal grassroots innovations in Honey Bee Network, has become even more urgent and relevant in the recent years. And, to shape this search, models and concepts like open innovation, reverse innovation (GE, [...] [Read more](#).

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Designing dynamically “signature business model” that support durable competitive advantage

by [Andrejs Čirjevskis](#)

J. Open Innov. Technol. Mark. Complex. **2016**, 2(3), 15; <https://doi.org/10.1186/s40852-016-0042-z> (registering DOI)

Received: 14 July 2016 / Accepted: 2 August 2016 / Published: 22 August 2016

[PDF Full-text](#) (666 KB)

Abstract Purpose/Research question: The paper provides an empirical research of the Samsung case. In particular, we study the case by adopting three frameworks: dynamic capabilities (DC, examined by using the sensing/seizing/transforming approach), business model (BM, examined by using the BM canvas), and customer value [...] [Read more](#).

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Brand relationships and risk: influence of risk avoidance and gender on brand consumption

by [Seung-Hee Lee](#), [Jane E. Workman](#) and [Kwangho Jung](#)

J. Open Innov. Technol. Mark. Complex. **2016**, 2(3), 14; <https://doi.org/10.1186/s40852-016-0041-0> (registering DOI)

Received: 27 March 2016 / Accepted: 19 July 2016 / Published: 12 August 2016

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Abstract Recent brand relationship research has paid attention to brand love, brand credibility, and brand loyalty. In market and society, various collaborations and co-creations derived from brand relationships generate various social network markets and open business innovations. Brand relationships and collaborative forms heavily depend [...] [Read more.](#)

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The virtues of variety in regional innovation systems and entrepreneurial ecosystems

by [Philip Cooke](#)

J. Open Innov. Technol. Mark. Complex. **2016**, 2(3), 13; <https://doi.org/10.1186/s40852-016-0036-x> (registering DOI)

Received: 18 May 2016 / Accepted: 9 June 2016 / Published: 12 August 2016

Cited by 12 | [PDF Full-text](#) (510 KB)

Abstract Today, interesting and important interconnections have been made that promise great leaps forward for innovation systems and entrepreneurial ecosystems – especially operating at the regional or sub-national level of the space economy. Of course, there are politics in such relationships. Most notable are [...] [Read more.](#)

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Panama canal expansion, U.S. trade diversion from west coast seaports and urban innovation

by [ChangKeun Park](#) and [JiYoung Park](#)

J. Open Innov. Technol. Mark. Complex. **2016**, 2(3), 12; <https://doi.org/10.1186/s40852-016-0040-1> (registering DOI)

Received: 15 March 2016 / Accepted: 12 July 2016 / Published: 4 August 2016

Cited by 2 | [PDF Full-text](#) (583 KB)

Abstract Adapting to the rapid process of globalization requires nodes of international trade and global financial operations conveyed in the world urban system. Urban and metropolitan areas need to strategically approach to incorporating the city economic activities to enlarge the scope and complexity of [...] [Read more.](#)

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“Open innovation” and “triple helix” models of innovation: can synergy in innovation systems be measured?

by [Loet Leydesdorff](#) and [Inga Ivanova](#)

J. Open Innov. Technol. Mark. Complex. **2016**, 2(3), 11; <https://doi.org/10.1186/s40852-016-0039-7> (registering DOI)

Received: 19 May 2016 / Accepted: 12 July 2016 / Published: 4 August 2016

Cited by 14 | [PDF Full-text](#) (870 KB)

Abstract The model of “Open Innovations” (OI) can be compared with the “Triple Helix of University-Industry-Government Relations” (TH) as attempts to find surplus value in bringing industrial innovation closer to public R&D. Whereas the firm is central in the model of OI, the TH [...] [Read more.](#)

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Business schools in crisis

by [F. Phillips](#), [C. H. Hsieh](#), [C. Ingene](#) and [L. Golden](#)

J. Open Innov. Technol. Mark. Complex. **2016**, 2(3), 10; <https://doi.org/10.1186/s40852-016-0037-9> (registering DOI)

Received: 24 May 2016 / Revised: 25 June 2016 / Published: 30 July 2016

Cited by 4 | [PDF Full-text](#) (798 KB)

Abstract Economic, political, and demographic changes, technological advances, two crashes of the economy, ethical scandals, and other developments in the business environment have strained the roles and enrollments of American universities’ business schools. The b-schools have not responded adequately. Prevailing theories in many of [...] [Read more.](#)

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by [Alexander Prado Lara](#), [Eduardo Moreira Da Costa](#), [Thiago Zilinski Furlani](#) and [Tan Yigitcanlar](#)

J. Open Innov. Technol. Mark. Complex. **2016**, 2(3), 9; <https://doi.org/10.1186/s40852-016-0035-y> (registering DOI)


Received: 1 July 2016 / Accepted: 1 July 2016 / Published: 6 July 2016

[PDF Full-text](#) (333 KB)

Abstract

After publication of the original article (Lara et al. 2016), it was noted that one of the author’s names was presented incorrectly[...] [Full article](#)

J. Open Innov. Technol. Mark. Complex., Volume 2, Issue 4 (December 2016)

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Configuring an alliance portfolio for eco-friendly innovation in the car industry: Hyundai and Toyota

by [Hyeon Joo Jeong](#) and [Youngjoo Ko](#)

J. Open Innov. Technol. Mark. Complex. **2016**, 2(4), 24; <https://doi.org/10.1186/s40852-016-0050-z> (registering DOI)

Received: 8 July 2016 / Accepted: 10 October 2016 / Published: 1 December 2016

[Cited by 2](#) | [PDF Full-text](#) (1031 KB)

Abstract Purpose: This study aims to examine the strategic alliance portfolio and the characters of focal firm partners in the eco-friendly car market, and also suggest the important managerial implications and suggestions for firms' managers and policy-makers using the patent information of Toyota and [...] [Read more](#).

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Cultural correlates of national innovative capacity: a cross-national analysis of national culture and innovation rates

by [Youngsun Jang](#), [Youngjoo Ko](#) and [So Young Kim](#)

J. Open Innov. Technol. Mark. Complex. **2016**, 2(4), 23; <https://doi.org/10.1186/s40852-016-0048-6> (registering DOI)

Received: 5 August 2016 / Accepted: 1 November 2016 / Published: 24 November 2016

[PDF Full-text](#) (1126 KB)

Abstract Although it is conventional wisdom that innovation requires free mind, diversity, or creativity all of which are closely associated with political and organizational decentralization, it is in fact more politically centralized countries in East Asia that successfully capitalized on innovation to catapult their [...] [Read more](#).

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An open letter to Mr. Secretary general of the united nations to propose setting up global standards for conquering growth limits of capitalism

by [JinHyo Joseph Yun](#), [Philip Cooke](#), [Fumio Kodama](#), [Fred Phillips](#), [Anil K. Gupta](#), [Francisco Javier Carrillo Gamboa](#), [Venni Krishna](#), [Keun Lee](#), [KongRae Lee](#), [Ulrich Witt](#), [Natalja Lace](#), [SangOk Choi](#), [KwangHo Jung](#), [WooSung Jung](#), [KyungBae Park](#), [Sam Youl Lee](#), [Jiyoung Park](#), [Jaehoon Rhee](#), [DongKyu Won](#), [Taeho Park](#), [Jeongho Yang](#), [EuiSeob Jeong](#) and [JinWon Kang](#)

J. Open Innov. Technol. Mark. Complex. **2016**, 2(4), 22; <https://doi.org/10.1186/s40852-016-0049-5> (registering DOI)

Received: 3 February 2016 / Accepted: 19 October 2016 / Published: 21 November 2016

[Cited by 2](#) | [PDF Full-text](#) (336 KB)

Abstract We propose an international economic agenda to overcome the growth limits of capitalism that can be supported by the United Nations. Sustainable Environment based global goals should be added to sustainable economy. For this, we propose dynamic balance between three sub-economies such as [...] [Read more](#).

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J. Open Innov. Technol. Mark. Complex. **2016**, 2(4), 21; <https://doi.org/10.1186/s40852-016-0047-7> (registering DOI)

Received: 13 July 2016 / Accepted: 5 October 2016 / Published: 17 October 2016

[Cited by 1](#) | [PDF Full-text](#) (4899 KB)

Abstract Purpose: This research seeks to answer the basic question, "What would be the most determining factors if I perform regression analysis using several independent variables?" This paper suggests the way to estimate the proper royalty rate and up-front payment using multiple data I [...] [Read more](#).

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Implementing open innovation concept in social business

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J. Open Innov. Technol. Mark. Complex. **2016**, 2(4), 20; <https://doi.org/10.1186/s40852-016-0046-8> (registering DOI)

Received: 12 July 2016 / Accepted: 29 September 2016 / Published: 12 October 2016

[Cited by 2](#) | [PDF Full-text](#) (559 KB)

Abstract Social business is an emerging concept which requires additional research especially in terms of priority management tools that can be used. The paper aims to evaluate how closed and open innovation concepts are implemented by social enterprises in the emerging information economy. The [...] [Read more](#).

1-9. 2015 Journal of Open Innovation Technology: Market, Complexity

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Erratum to: Heterogeneous expectations leading to bubbles and crashes in asset markets: Tipping point, herding behavior and group effect in an agent-based model

by [Sunyoung Lee](#) and [Keun Lee](#)

J. Open Innov. Technol. Mark. Complex. **2015**, 1(1), 14; <https://doi.org/10.1186/s40852-015-0018-4> (registering DOI)

Received: 21 August 2015 / Accepted: 21 August 2015 / Published: 1 October 2015

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Public space design of knowledge and innovation spaces: learnings from Kelvin Grove Urban Village, Brisbane

by [Surabhi Pancholi](#), [Tan Yigitcanlar](#) and [Mirko Guaralda](#)

J. Open Innov. Technol. Mark. Complex. **2015**, 1(1), 13; <https://doi.org/10.1186/s40852-015-0015-7> (registering DOI)

Received: 7 July 2015 / Accepted: 8 August 2015 / Published: 16 September 2015

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Abstract The era of knowledge-based urban development has led to an unprecedented increase in mobility of people and the subsequent growth in new typologies of agglomerated enclaves of knowledge such as knowledge and innovation spaces. Within this context, a new role has been assigned [...] [Read more](#).

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Globalization of R&D and open innovation: linkages of foreign R&D centers in India

by [Swapan Kumar Patra](#) and [Venni V. Krishna](#)

J. Open Innov. Technol. Mark. Complex. **2015**, 1(1), 7; <https://doi.org/10.1186/s40852-015-0008-6> (registering DOI)

Received: 10 July 2015 / Accepted: 28 July 2015 / Published: 15 September 2015

[Cited by 23](#) | [PDF Full-text](#) (1230 KB)

Abstract In the new form of Globalization of R&D, Multinational (MNEs) firms have established their R&D units in emerging Asian countries, particularly in India and China. In the 1980s MNEs located their R&D units in their country of origin and were very reluctant to [...] [Read more](#).

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Heterogeneous expectations leading to bubbles and crashes in asset markets: Tipping point, herding behavior and group effect in an agent-based model

by [Sunyoung Lee](#) and [Keun Lee](#)

J. Open Innov. Technol. Mark. Complex. **2015**, 1(1), 12; <https://doi.org/10.1186/s40852-015-0013-9> (registering DOI)

Received: 3 August 2015 / Accepted: 25 August 2015 / Published: 15 September 2015

[Cited by 2](#) | [PDF Full-text](#) (1719 KB)

Abstract Background: The traditional economic models are increasingly perceived as weak in explaining the bubbles and crashes in financial markets and the associated crisis. Thus, especially after the global financial crisis in 2008, agent-based model (ABM) is getting an attention as an alternative approach [...] [Read more](#).

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RESEARCH Open Access Heterogeneous expectations leading to bubbles and crashes in asset markets: tipping point, herding behavior and group effect in an agent-based model

by [Sunyoung Lee](#) and [Keun Lee](#)

J. Open Innov. Technol. Mark. Complex. **2015**, 1(1), 11; <https://doi.org/10.1186/s40852-015-0014-8> (registering DOI)

Received: 6 August 2015 / Accepted: 25 August 2015 / Published: 15 September 2015

[Cited by 1](#) | [PDF Full-text](#) (1572 KB)

Abstract This paper develops an agent-based model(ABM) to replicate financial instability, such as bubbles and crashes in asset markets, by introducing a simple idea of 'heterogeneous expectation' by which agents have different expectations about a 'tipping point' where they expect the price to stop [...] [Read more](#).

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Platform business Eco-model evolution: case study on KakaoTalk in Korea

by Junghee Han and Okjoo Cho

J. Open Innov. Technol. Mark. Complex. **2015**, 1(1), 6; <https://doi.org/10.1186/s40852-015-0006-8> (registering DOI)

Received: 1 June 2015 / Accepted: 31 July 2015 / Published: 8 September 2015

Cited by 10 | PDF Full-text (718 KB)

Abstract Platform business is often regarded as notable examples of successful businesses model in the mobile industry. The purpose of this study is to find the determinants of successful platform business, through the case study of KakaoTalk, a representative fast growing social platform in [...] [Read more.](#)

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A systematic review of RFID applications and diffusion: key areas and public policy issues

by Kwangho Jung and Sabinne Lee

J. Open Innov. Technol. Mark. Complex. **2015**, 1(1), 9; <https://doi.org/10.1186/s40852-015-0010-z> (registering DOI)

Received: 7 July 2015 / Accepted: 11 August 2015 / Published: 4 September 2015

Cited by 7 | PDF Full-text (814 KB)

Abstract RFID applicants called as e-ID, smart tag, and contactless smart card are being applied to numerous areas in our daily life, including tracking manufactured goods, currency, and patients to payments systems. To review these various applications of RFID is important to exploring not [...] [Read more.](#)

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Reflections on the innovative city: examining three innovative locations in a knowledge bases framework

by Tommi Inkinen

J. Open Innov. Technol. Mark. Complex. **2015**, 1(1), 8; <https://doi.org/10.1186/s40852-015-0009-5> (registering DOI)

Received: 9 April 2015 / Accepted: 7 August 2015 / Published: 4 September 2015

Cited by 3

Abstract This paper combines three location-based cases with literature background focusing on knowledge bases and cities. The paper considers the regional context of the city of Helsinki and its surrounding area (HMA). Analyzed cases include three specific locations highlighting urban form, connectivity and knowledge-intensive [...] [Read more.](#)

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Customer involvement through social media: the cases of some telecommunication firms

by Valentina Della Corte, Alessandra Iavazzi and Chiara D'Andrea

J. Open Innov. Technol. Mark. Complex. **2015**, 1(1), 10; <https://doi.org/10.1186/s40852-015-0011-y> (registering DOI)

Received: 16 April 2015 / Accepted: 18 August 2015 / Published: 4 September 2015

Cited by 8 | PDF Full-text (1251 KB)

Abstract This study highlights the contribution of the role of social media in supporting customer involvement for service innovation.

It is commonplace that many service firms and processes have characteristics that differ from manufacturing. Analyzing the literature, we note that there are many contributions [...] [Read more.](#)

Open Access Article

Study on CEO characteristics for management of public art performance centers

by Joon-ho Kim and Seung-hye Jung

J. Open Innov. Technol. Mark. Complex. **2015**, 1(1), 5; <https://doi.org/10.1186/s40852-015-0007-7> (registering DOI)

Received: 8 June 2015 / Accepted: 4 August 2015 / Published: 2 September 2015

Cited by 5 | PDF Full-text (665 KB)

Abstract The purpose of this study is to present the rationale and empirical evidence as to whether the characteristics of chief executive officer (CEO), such as entrepreneurship, social responsibility (perception), and social capital, at public art performance centers have effect on management outcomes, and [...] [Read more.](#)

Open Access Article

A study on the current status and strategies for improvement of web accessibility compliance of public institutions

by Kyung-Ran Noh, Eui-Seob Jeong, Young-Bok You, Sun-Joo Moon and Mun-Bok Kang

J. Open Innov. Technol. Mark. Complex. **2015**, 1(1), 4; <https://doi.org/10.1186/s40852-015-0001-0> (registering DOI)

Received: 1 March 2015 / Accepted: 31 May 2015 / Published: 26 August 2015

Cited by 2 | PDF Full-text (454 KB)

Abstract Background: The circulation of information through the Internet allows us to promptly and conveniently deliver information. However, it is also causing a simultaneous occurrence of digital information gap and cultural lag phenomena. The gap in the ability to freely access and use Web [...] [Read more.](#)

Open Access Article

Compulsive buying and branding phenomena

by Seung-Hee Lee and Jane E. Workman

J. Open Innov. Technol. Mark. Complex. **2015**, 1(1), 3; <https://doi.org/10.1186/s40852-015-0004-x> (registering DOI)

Received: 23 May 2015 / Accepted: 27 June 2015 / Published: 19 August 2015

Cited by 1 | PDF Full-text (470 KB)

Abstract Background: The purpose of this paper was to explore the impact of brand variables such as brand awareness, brand loyalty, brand attachment, and perceived brand quality on compulsive buying behavior.

Methods: A self-administered questionnaire, containing demographic items and items related to compulsive buying, [...]

[Read more.](#)

Open Access Article

Demand articulation in the open-innovation paradigm

by Fumio Kodama and Tamotsu Shibata

J. Open Innov. Technol. Mark. Complex. **2015**, 1(1), 2; <https://doi.org/10.1186/s40852-015-0003-y> (registering DOI)

Received: 2 June 2015 / Accepted: 26 June 2015 / Published: 12 August 2015

Cited by 16 | PDF Full-text (1331 KB)

Abstract Background: In the marketing literatures, "articulation of demand" is quoted as an important competency of market-driving firms. In this paper, therefore, I will demonstrate how the concept of "demand articulation" was effective in formulating corporate policies for technology and market development, and also [...] [Read more.](#)

Open Access Article

Green governance and green clusters: regional & national policies for the climate change challenge of Central & Eastern Europe

by Philip Cooke

J. Open Innov. Technol. Mark. Complex. **2015**, 1(1), 1; <https://doi.org/10.1186/s40852-015-0002-z> (registering DOI)

Received: 8 May 2015 / Accepted: 31 May 2015 / Published: 5 August 2015

Cited by 18 | PDF Full-text (1289 KB)

Abstract This paper focuses on the climate change challenge faced by Central & Eastern European countries both those inside the European Union and those outside it. They have enormous energy intensity and associated greenhouse gas (GHG) emissions, mainly from energy production, which is oil, [...] [Read more.](#)

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A study on policy literacy and public attitudes toward government innovationfocusing on Government 3.0 in South Korea

by EunHyung Park and Jea-Wan Lee

J. Open Innov. Technol. Mark. Complex. **2015**, 1(2), 23; <https://doi.org/10.1186/s40852-015-0027-3> (registering DOI)

Received: 2 December 2015 / Accepted: 16 December 2015 / Published: 29 December 2015

Cited by 2 | PDF Full-text (506 KB)

Abstract This study aims to verify the relationship between policy literacy and attitudes toward the government innovation initiative known as Government 3.0. Also, this study hypothesizes that the relationship between policy literacy and policy attitude can be moderated by cognitive subject and analyzed according [...] [Read more.](#)

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Complex adaptive systems approach to sewol ferry disaster in Korea

by DongKyu Won, SunHee Yoo, HyungSun Yoo and JongYeon Lim

J. Open Innov. Technol. Mark. Complex. **2015**, 1(2), 22; <https://doi.org/10.1186/s40852-015-0023-7> (registering DOI)

Received: 16 September 2015 / Accepted: 8 December 2015 / Published: 24 December 2015

Cited by 4 | PDF Full-text (3081 KB)

Abstract This paper aims to introduce the concept and characteristics of natech disaster (natural hazards triggered technological disaster) and to explore the policy issues in complex disaster management in Korea. This research examines the issues of natech complex disaster through analysis of Sewol ferry [...] [Read more.](#)

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Historical review on the patterns of open innovation at the national level: the case of the roman period

by Jeong-hwan Jeon, Sung-kyu Kim and Jin-hwan Koh

J. Open Innov. Technol. Mark. Complex. **2015**, 1(2), 20; <https://doi.org/10.1186/s40852-015-0026-4> (registering DOI)

Received: 31 August 2015 / Accepted: 8 December 2015 / Published: 22 December 2015

Cited by 8 | PDF Full-text (1559 KB)

Abstract As a result of the open innovation dissemination, the necessity of open innovation is being magnified in the theory of national innovation system. Nevertheless, research on the relationship between the open innovation and national innovation system is insufficient so far. Therefore, this research [...] [Read more.](#)

Open Access Article

The impact of graduate students on research productivity in Korea

by Ki-Seok Kwon, Seok Ho Kim, Tae-Sik Park, Eun Kyoung Kim and Duckhee Jang

J. Open Innov. Technol. Mark. Complex. **2015**, 1(2), 21; <https://doi.org/10.1186/s40852-015-0024-6> (registering DOI)

Received: 3 September 2015 / Accepted: 8 December 2015 / Published: 21 December 2015

Cited by 2 | PDF Full-text (406 KB)

Abstract Even though graduate students are critical for carrying out research, they have not been treated as important in the existing literature on research productivity. Accordingly, this paper focuses on whether the number of graduate students has a significant impact on their supervisors' research [...] [Read more.](#)

Open Access Article

A 3-d advancement of PythoCrypt for any file type

by Harsha S. Jois, N. Bhaskar and M. N. Shesha Prakash

J. Open Innov. Technol. Mark. Complex. **2015**, 1(2), 19; <https://doi.org/10.1186/s40852-015-0022-8> (registering DOI)

Received: 29 March 2015 / Accepted: 29 November 2015 / Published: 18 December 2015

PDF Full-text (843 KB)

Abstract This research work discusses a file-type-independent cryptosystem using the conversion of Cartesian and Polar coordinate systems in three dimensions. This is an advancement to PythoCrypt (IJESM, Vol-3, Issue-2, 48-51, 2013) where a new algorithm was discussed that can be effectively used to provide security to [...] [Read more.](#)

Open Access Article

Promotion of university students' collaborative skills in open innovation environment

by Karine Oganisjana

J. Open Innov. Technol. Mark. Complex. **2015**, 1(2), 18; <https://doi.org/10.1186/s40852-015-0021-9> (registering DOI)

Received: 9 September 2015 / Accepted: 26 November 2015 / Published: 1 December 2015

Cited by 8 | PDF Full-text (980 KB)

Abstract It is argued that the participation in open innovation processes requires a specific set of thinking, skills and behaviours founded on the willingness and readiness to exchange, accept, encourage, cooperate and co-create based on trust and collaboration. The paper presents the results of [...] [Read more.](#)

Open Access Article

How do we conquer the growth limits of capitalism? Schumpeterian Dynamics of Open Innovation

by JinHyo Joseph Yun

J. Open Innov. Technol. Mark. Complex. **2015**, 1(2), 17; <https://doi.org/10.1186/s40852-015-0019-3> (registering DOI)

Received: 23 April 2015 / Accepted: 26 October 2015 / Published: 10 November 2015

Cited by 30 | PDF Full-text (1319 KB)

Abstract The purpose of this study is to answer the research question, "How do we conquer the growth limits of capitalism?" Based on existing studies on growth limits of capitalism by Marx and Schumpeter as well as the recent discussions of Drucker, Rifkin, and [...] [Read more.](#)

Open Access Article

Open innovation of knowledge cities

by JinHyo Joseph Yun, EuiSeob Jeong and JeongHo Yang

J. Open Innov. Technol. Mark. Complex. **2015**, 1(2), 16; <https://doi.org/10.1186/s40852-015-0020-x> (registering DOI)

Received: 31 August 2015 / Accepted: 26 October 2015 / Published: 4 November 2015

Cited by 10 | PDF Full-text (1925 KB)

Abstract Purpose: This research seeks to answer the basic question, "As a city evolves from an industrial city to a knowledge one, are its open innovation activities vitalized?"

Design/methodology/approach: In this research, we compare the total number of patent applications, the number of joint [...] [Read more.](#)

Open Access Article

Knowledge-based development as a new economic culture

by Francisco Javier Carrillo

J. Open Innov. Technol. Mark. Complex. 2015, 1(2), 15; <https://doi.org/10.1186/s40852-015-0017-5> (registering DOI)

Received: 8 June 2015 / Accepted: 18 September 2015 / Published: 15 October 2015

Cited by 9 | PDF Full-text (515 KB)

Abstract This is a theoretical research paper that aims to make the case for the major cultural evolution underlying the transition from industrial to knowledge societies. The approach followed consists of a theoretical analysis of the re-definition of production factors as well as the [...] [Read more](#).

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Technological Forecasting & Social Change 146 (2019) 534–562



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The role of a business model in market growth: The difference between the converted industry and the emerging industry



JinHyo Joseph Yun^{a,*}, DongKyu Won^b, KyungBae Park^c, EuiSeob Jeong^b, Xiaofei Zhao^a

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^c Sangji University, 660, Woosan-dong, Wonju, Kangwon-do 220-702, Republic of Korea

ARTICLE INFO

Keywords:

Business model
Open Innovation
Converted industry
Emerging industry
Autonomous car
Intelligent robot
System dynamics
Simulation

ABSTRACT

This paper investigates the role of business models: What differences exist between the roles of an already-existing market-based converted industry and a newly appearing market-based emerging industry?

This study analyzed the status of the technologies and business models in the autonomous car and intelligent robot industries, as well as their recent two-year growth, using technology and business model patents. In addition, it investigated the current situation of the technologies, business models, and markets of the two industries based on literature reviews. This study then simulated the market growth of the autonomous car and intelligent robot industries using system dynamics. The simulations were established and verified by analyzing the references and citations of the technology patents and business model patents of the two industries. This study reached three conclusions. First, in the case of a converted industry such as autonomous cars, a strategy focused on a business model is useful in the early stage, whereas one focused on technology is efficient in the mature stage. Second, in the case of an emerging industry such as intelligent robots, a strategy focused on technology is somewhat more useful in the early stage than one focused on a business model; conversely, a strategy focused on technology is slightly more useful in the mature stage. Third, a business model is also important to supplement technology such as intelligent robots at a mature stage in Canada or autonomous cars at a mature stage in Japan.

Technological Forecasting & Social Change 184 (2022) 122015



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Inter-rationality; Modeling of bounded rationality in open innovation dynamics



JinHyo Joseph Yun^{a,*}, Heung Ju Ahn^a, Doo Seok Lee^a, Kyung Bae Park^b, Xiaofei Zhao^a

^a Daegu Gyeongbuk Institute of Science and Technology (DGIST), 333, Techno Jungang Daero, Hyeonpung-Myeon, Dalseong-Gun, Daegu 42988, Republic of Korea

^b Sangji University, 660 Woosan-Dong, Wonju-Si, 220-702, Kangwon, Republic of Korea

ARTICLE INFO

Keywords:

Inter-rationality
Zigzag growth
Bounded rationality
Open innovation dynamics

ABSTRACT

If any firm or agent makes decisions under inter-rationality, which is a kind of bounded rationality in open innovation dynamics, it would not stop growing at a certain point of the reverse-U curve, but grow continuously following a zigzag pattern. In this study, we examine whether there is any relation between open innovation and sustainable economic growth, which might explain why some firms grow continuously and others collapse. A conceptual and mathematical model of inter-rationality in open innovation dynamics is constructed. The theoretical contribution of inter-rationality that it could be the precondition or essence of economics, political economics, social science, or open innovation engineering in the digital transformation era as the economic human's dominant type of bounded rationality. The zigzag growth pattern resulting from open innovation dynamics which is based on the inter-rationality of economic agents could suggest any practical way to overcome the growth limits of firms or economic system.

2-2. Technological Forecasting and Social Change-From 2016~Published in 2018



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Place making for innovation and knowledge-intensive activities:
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Surabhi Pancholi ^a, Tan Yigitcanlar ^a, Mirko Guaralda ^b

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Yongyoon Suh ^a, Jeonghwan Jeon ^b

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Open innovation in SMEs: Exploring inter-organizational
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Agnieszka Radziwon ^a, Marcel Bogers ^b

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Horizon scanning in policy research database with a
probabilistic topic model

Hyunuk Kim ^a, Sang-Jin Ahn ^b, Woo-Sung Jung ^{a, c}

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5-3. Science, Technology and Society-Published in 2020(Published online in 2021 May)

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Open Innovation Effort, Entrepreneurship Orientation and their Synergies onto Innovation Performance in SMEs of Korea

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Designing for Green and Grey: Insights from Single-Use Plastic Water Bottles

by Taesun Kim and Sang-Don Lee

Int. J. Environ. Res. Public Health 2022, 19(3), 1423; <https://doi.org/10.3390/ijerph19031423> - 27 Jan 2022

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by Seo-young Lee, Sanghee Shin, Hakjoon Kim, Min-Kyung Kim, So-Yeon Yoon and Sangdon Lee

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by Minkyung Kim, Sojeong Lee, Hakyung Lee and Sangdon Lee

Int. J. Environ. Res. Public Health 2021, 18(3), 1086; <https://doi.org/10.3390/ijerph18031086> - 26 Jan 2021

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by Matus Kubak, Beata Gavurova and Klaudia Legutka

Int. J. Environ. Res. Public Health 2020, 17(9), 3032; <https://doi.org/10.3390/ijerph17093032> - 27 Apr 2020

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Abstract The aim of the study is to determine the economic value of the Tatra National Park. The willingness to pay approximation was used. Additionally, a questionnaire survey was applied in order to collect data. It contained a hypothetical event, and respondents expressed their [...] [Read more.](#)

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by Youngju Kang, Minyoung Kim and Kwangho Jung

Int. J. Environ. Res. Public Health 2020, 17(5), 1775; <https://doi.org/10.3390/ijerph17051775> - 09 Mar 2020

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Int. J. Environ. Res. Public Health 2019, 16(20), 3893; <https://doi.org/10.3390/ijerph16203893> - 14 Oct 2019

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

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