

Society of Open Innovation: Technology, Market, and Complexity **(SOI)**

Special Issue History

Published Papers List & Keynote speech papers including

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

2020-05-20

Contents

| | |
|--|----|
| 1. 2019 Journal of Open Innovation: Technology, Market, and Complexity(JOI) Special Issue Published Papers List | 3 |
| 2. 2018 JOI Special Issue Published Papers List | 16 |
| 3. 2017-2015 JOI Special Issue Published Papers List | 27 |
| 3-1. 2017 JOI | 28 |
| 3-2. 2016 JOI | 34 |
| 3-3. 2015 JOI | 39 |
| 4. TFSC (SOI Special Issue '16-'19) | 44 |
| 5. EPS (SOI Special Issue '16-'17) | 47 |
| 6. STS (SOI Special Issue '16-'19) | 49 |
| 7. IJERPH (SOI Special Issue '19) | 55 |
| 8. KM RP (SOI Special Issue '17-'18) | 57 |
| 9. IJ KBD (SOI Special Issue '16) | 60 |
| 10. Research Policy Open Innovation related Special Issue Published Paper Lists | 62 |
| 11. R&D Open Innovation related Special Issue Published Paper Lists | 65 |
| 12. Journal of Evolutionary Economics Open Innovation related Special Issue Published Paper Lists | 68 |
| 13. Technovation Open Innovation related Special Issue Published Paper Lists | 70 |

1. 2019

- JOI Special Issue Published Papers List

1. 2019 Journal of Open Innovation Technology: Market, Complexity

Open Access Article



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.](#)

(This article belongs to the Special Issue [Second IT Revolution and Dynamic Open Innovation: From Smart City, Autonomous Car, Intelligent Robot, and Block Chain to Sharing Economy](#))

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Open Access Article



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.](#)

(This article belongs to the Special Issue [Second IT Revolution and Dynamic Open Innovation: From Smart City, Autonomous Car, Intelligent Robot, and Block Chain to Sharing Economy](#))

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Open Access Article



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.](#)

(This article belongs to the Special Issue [Second IT Revolution and Dynamic Open Innovation: From Smart City, Autonomous Car, Intelligent Robot, and Block Chain to Sharing Economy](#))

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.](#)

(This article belongs to the Special Issue **Second IT Revolution and Dynamic Open Innovation: From Smart City, Autonomous Car, Intelligent Robot, and Block Chain to Sharing Economy**)

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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

Cited by 1

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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The Study on the Difference in Corporate Performance and Employment Outcomes According to the Results of Equity-Based Crowdfunding Investment

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

Cited by 1

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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Lean Smart Manufacturing in Taiwan—Focusing on the Bicycle Industry

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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The Identification of Opportunities for Innovations through Collecting Problems from Citizens

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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Factors Affecting the Outbound Open Innovation Strategies in Pharmaceutical Industry: Focus on Out-Licensing Deal

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

Cited by 2

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

Cited by 2

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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The Transition of Samsung Electronics through Its M&A with Harman International

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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Incessant Conceptual/Industrial Transformation of Automobiles

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

Cited by 1

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

Cited by 2

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

Cited by 1

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 Čirjevsks

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

Cited by 1

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

Cited by 2

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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Open Access Concept Paper

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

Cited by 2

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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Open Access Viewpoint

Disruptive Impacts of Automated Driving Systems on the Built Environment and Land Use: An Urban Planner's Perspective

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. 5, Issue 4, (December 2019) 9 Papers

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

2. 2018

-JOI Special Issue Published Papers List

2. 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

Cited by 1

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.](#)

(This article belongs to the Special Issue [The 4th Industrial Revolution from Open Innovation in Manufacturing and Service Industry to Cyber-Physics](#))

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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/foitmc4040042> - 21 Sep 2018

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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/foitmc4030041> - 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/foitmc4030039> - 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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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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by  Hang-Sik Park ,  Hee-Gyoo Kang ,  Myung-Chul Kim ,  Jiyeong Lee and  Jean-kyung Paik

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

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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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Framing Open Innovation in Start-Ups' Incubators: A Complexity Theory Perspective

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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Identifying Stakeholders and Interactions in the Dementia Café in Seongju through Empathic Service Design Approaches

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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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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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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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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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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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

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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)

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

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

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

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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.](#)

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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

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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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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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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.](#)

Open Access Article

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

Cited by 3 | PDF Full-text (447 KB)

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.](#)

Open Access Article

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

by [Abiodun Egbetokun](#), [Adekemi Jessica Oluwadare](#), [Blessing Funke Ajao](#) and [Oluseye Oladayo Jegede](#)

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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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)

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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

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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

[Cited by 3](#) | [PDF Full-text](#) (560 KB)

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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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

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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)

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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

Cited by 4 | [PDF Full-text](#) (523 KB)

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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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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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

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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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Valuation method by regression analysis on real royalty-related data by using multiple input descriptors in royalty negotiations in Life Science area-focused on anticancer therapies

by [Jeong Hee Lee](#), [Bae Khee-Su](#), [Joon Woo Lee](#), [Youngyong In](#), [Taehoon Kwon](#) and [Wangwoo Lee](#)

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

by [Anna Svirina](#), [Alfia Zabbarova](#) and [Karine Oganisjana](#)

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](#).

3-3. 2015 Journal of Open Innovation Technology: Market, Complexity

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[Open Access](#) [Erratum](#)

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

[PDF Full-text](#) (326 KB)

Abstract

This article was unintentionally published twice in this journal, by the same authors.[...] [Full article](#)

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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

[Cited by 9](#) | [PDF Full-text](#) (3748 KB)

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](#).

[Open Access](#) [Article](#)

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.](#)

Open Access Article

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.](#)

Open Access Article

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.](#)

J. Open Innov. Technol. Mark. Complex., Volume 1, Issue 2 (December 2015)

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Open Access Article

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.](#)

Open Access Article

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.](#)

Open Access Article

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](#).

Vol. 1, Issue 1, (September 2015) 14 Papers

Vol. 1, Issue 2, (December 2015) 9 Papers

4.
TFSC
(SOI Special Issue '16-'19)

5-1. Technological Forecasting and Social Change-From 2017~Published in 2019

Technological Forecasting & Social Change xxx (xxxx) xxx-xxx



Contents lists available at ScienceDirect

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journal homepage: www.elsevier.com/locate/techfore



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

^a Daegu Gyeongbuk Institute of Science and Technology (DGIST), 50-1, Sang-ri, Hyeonpung-myeon, Dalseong-gun, Daegu 711-873, Republic of Korea

^b Korea Institute of Science and Technology Information (KISTI), Hoegi-ro, 66 Dongdaemun-gu, Seoul 130-741, Republic of Korea

^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.

5-2. Technological Forecasting and Social Change-From 2016~Published in 2018



Technological Forecasting and Social Change

Available online 22 September 2017

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Place making for innovation and knowledge-intensive activities:
The Australian experience

Surabhi Pancholi ^a, Tan Yigitcanlar ^a, Mirko Guaralda ^b

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Technological Forecasting and Social Change

Available online 5 March 2018

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Monitoring patterns of open innovation using the patent-based
brokerage analysis

Yongyoon Suh ^a, Jeonghwan Jeon ^b

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Technological Forecasting and Social Change

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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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Hyunuk Kim ^a, Sang-Jin Ahn ^b, Woo-Sung Jung ^{a, c}

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EPS
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See all volumes and issues

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Evolution of Collaborative Enterprise “Ecosystems”

Guest editorial

Editorial

Evolution and variety in complex geographies and enterprise policies >

JinHyo Joseph Yun, Philip Cooke & JiYoung Park

Pages: 729-738

Published online: 08 Feb 2017

Abstract | Full Text | References | PDF (736 KB)

645 Views

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Articles

Article

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Philip Cooke

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Published online: 30 Jan 2017

Abstract | Full Text | References | PDF (1204 KB)

233 Views

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Article

Impact of stakeholder groups on development of a regional entrepreneurial ecosystem >

Inga Erina, Vladimir Shatrevich & Elina Gaile-Sarkane

Pages: 755-771

Published online: 15 Mar 2017

Abstract | Full Text | References | PDF (1816 KB)

298 Views

2 CrossRef citations

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Innovative green economy, urban economic performance and urban environments: an empirical analysis of US cities >

JiYoung Park & G. William Page

Pages: 772-789

Published online: 06 Feb 2017

Abstract | Full Text | References | PDF (1193 KB)

300 Views

1 CrossRef citations

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Article

The roles of networks among innovators in regional innovation: comparative analysis between China and South Korea >

Junghyun Yoon, Jaehoon Rhee & Alisher Tohirovich Dedahanov

Pages: 790-804

Published online: 14 Feb 2017

Abstract | Full Text | References | PDF (1082 KB)

128 Views

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Article

Growth of a platform business model as an entrepreneurial ecosystem and its effects on regional development >

JinHyo Joseph Yun, DongKyu Won, KyungBae Park, JeongHo Yang & Xiaofei Zhao

Pages: 805-826

Published online: 06 Feb 2017

Abstract | Full Text | References | PDF (2421 KB)

2325 Views

3 CrossRef citations

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Article

Exploring competing perspectives on government-driven entrepreneurial ecosystems: lessons from Centres for Creative Economy and Innovation (CCEI) of South Korea >

Kwangho Jung, Jong-Hwan Eun & Seung-Hee Lee

Pages: 827-847

Published online: 02 Feb 2017

Abstract | Full Text | References | PDF (1445 KB)

234 Views

2 CrossRef citations

2 Altmetric

Article

Government-led regional innovation: a case of ‘Pangyo’ IT cluster of South Korea >

Sam Youl Lee, Meansun Noh & Ji Yung Seul

Pages: 848-866

Published online: 30 Jan 2017

Abstract | Full Text | References | PDF (2485 KB)

190 Views

0 CrossRef citations

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Article

Knowledge exploitation and entrepreneurial activity in a regional innovation system: first adaptation of RFID at Kumho Tire in Gwangju, Korea >

Junghee Han & Youngjoo Ko

Pages: 867-885

Published online: 30 Jan 2017

Abstract | Full Text | References | PDF (1882 KB)

108 Views

2 CrossRef citations

0 Altmetric

6.
STS
(SOI Special Issue '16-'19)

7-1. Science, Technology and Society-Published in 2018-2019



[The Impact of Local Government Policy on Innovation Ecosystem in Knowledge Resource Scarce Region: Case Study of Changzhou, China](#)

Lei Ma, Zheng Liu, Xiaojing Huang, Tao Li

First Published January 3, 2019; pp. 29–52

[Abstract](#)

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[How Does a Social Open Innovation Succeed? Learning from Burro Battery and Grassroots Innovation Festival of India](#)

Jinhyo Joseph Yun, Abiodun A. Egbetoku, Xiaofei Zhao

First Published December 20, 2018; pp. 122–143

[Abstract](#)

> [Preview](#)



[Effect of Technology and Market Dynamism on the Business Performances of SMEs by Supporting Services](#)

Hun Park, Jae-Young Yoo, Seong-Hee Moon, Hyoung-Sun Yoo, Ho-Shin Lee, Tae-Hoon Kwon, Hyuk Hahn

First Published December 20, 2018; pp. 144–160

[Abstract](#)

> [Preview](#)



7-2. Science, Technology and Society-Published in 2017

Table of Contents

Volume 22, Issue 3, November 2017

Special Issue: Society of Open Innovation: Select Papers and Reports on Technology, Market and Complexity

Guest Editor : Jinhyo Joseph Yun , Avvari V. Mohan and Xiaofei Zhao

Articles



Collectivism, Individualism and Open Innovation: Introduction to the Special Issue on 'Technology, Open Innovation, Markets and Complexity'

Jinhyo Joseph Yun, Avvari V. Mohan, Xiaofei Zhao

First Published November 6, 2017; pp. 379–387

[Abstract](#)



Open Innovation at Different Levels for Higher Climate Risk Resilience

Anamika Dey, Anil Gupta, Gurdeep Singh

First Published September 22, 2017; pp. 388–406

[Abstract](#)

[> Preview](#)



The Effect of R&D Alliance Diversity and Network Position on Firm Innovation Performance: Evidence from the Emerging Biotechnology Industry

Chun Hsien Wang, Xiaohong Iris Quan

First Published September 22, 2017; pp. 407–424

[Abstract](#)

[> Preview](#)



Dynamics of Social Enterprises—Shift from Social Innovation to Open Innovation

Jinhyo Joseph Yun, KyungBae Park, ChoongJae Im, ChangHwan Shin, Xiaofei Zhao

First Published September 22, 2017; pp. 425–439

[Abstract](#)

[> Preview](#)



Role of Information in SMEs Supporting Services on Business Performance in South Korea

Hun Park, Tae-Hoon Kwon, Tae-Jong Jang, Jae-Young Yoo, Ho-Shin Lee, Seong-Hee Moon, Hyuk Hahn

First Published September 22, 2017; pp. 440–454



Policy Challenges and Ethical Issues with the Breakthrough Technology: The Case of Synthetic Biology

Samuel Pang, Sam Youl Lee, Ji Yung Seul

First Published November 6, 2017; pp. 455–472

[Abstract](#)
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The Effect of International Joint Research to the Research Performance: The Case of the Global Research Laboratory and the Basic Research Laboratory Programme

Jinwon Kang

First Published September 22, 2017; pp. 473–489

[Abstract](#)
> [Preview](#)



Can Government Policies Drive Open Innovation Type Platforms? Ideas from the MSC Malaysia Flagship Applications

Aliza A. Omar, Avvari V. Mohan, XIAOFEI ZHAO

First Published September 25, 2017; pp. 490–505

[Abstract](#)
> [Preview](#)



An Empirical Study on the Improvement of R&D Competition Policy for the National R&D Programme

Byung Yong Hwang, Jee Hyun Suh, Dae Cheol Kim

First Published October 2, 2017; pp. 506–523

[Abstract](#)
> [Preview](#)



A Methodology for Searching and Allocating Enterprises in the Supply Chain by Using the Business Information Database and Trademark Rights Database

Daehyeon Lim, Youngsu Moon, Kanghoe Kim, Hoshin Lee

First Published September 25, 2017; pp. 524–538

[Abstract](#)
> [Preview](#)

7-3. Science, Technology and Society-Published in 2016.

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Table of Contents

Volume 21, Issue 3, November 2016

Special Issue: Open Innovation: Technology, Market and Complexity in South Korea

Guest Editor : Jinhyo JosephYun

Articles






Open Innovation: Technology, Market and Complexity in South Korea

Jinhyo Joseph Yun

First Published October 9, 2016; pp. 319–323

[Abstract](#)
> Preview






Open Innovation to Business Model

New Perspective to connect between technology and market

Jinhyo Joseph Yun, Jeongho Yang, Kyungbae Park

First Published November 7, 2016; pp. 324–348

[Abstract](#)
> Preview






The Factors Affecting Basic Research Performance Funded by Government: ‘Creative Research Program’ Case in South Korea

Youngsoo Ryu, Kwangseon Hwang, Sang Ok Choi

First Published October 20, 2016; pp. 349–365

[Abstract](#)
> Preview








Open Innovation Effort, Entrepreneurship Orientation and their Synergies onto Innovation Performance in SMEs of Korea

Jinhyo Joseph Yun, Kyungbae Park, Janghyun Kim, Jeongho Yang

First Published October 20, 2016; pp. 366–390

[Abstract](#)
> Preview





How User Entrepreneurs Succeed: The Role of Entrepreneur’s Caliber and Networking Ability in Korean User Entrepreneurship

Jinhyo Joseph Yun, Kyungbae Park

First Published October 20, 2016; pp. 391–409



Learning Organisation Activities and Innovativeness of Tech-based SMEs within Korean Technoparks: The Mediating Role of Learning Transfer

Sanghyun Sung, Jaehoon Rhee, Junghyun Yoon

First Published October 25, 2016; pp. 410–434

[Abstract](#)

> [Preview](#)



Exploring Neglected Aspects of Innovation Function: Public Motivation and Non-pecuniary Values

Kwangho Jung, Seung-Hee Lee, Jane E. Workman

First Published November 7, 2016; pp. 435–464

[Abstract](#)

> [Preview](#)



The Effect of Regional Innovation Type on the Pursuit of Open Innovation in Korean Firms

Gwang Min Yoo, Sunjoo Kwak

First Published October 25, 2016; pp. 465–484

[Abstract](#)

> [Preview](#)

Book Reviews



Book Review: Banu Subramaniam (2014), Ghost Stories for Darwin: The Science of Variation and the Politics of Diversity

Theodore Koditschek

First Published November 23, 2016; pp. 485–487

[Abstract](#)

> [Preview](#)



Book Review: Clapperton Chakanetsa Mavhunga (2014), Transient Workspaces: Technologies of Everyday Innovation in Zimbabwe

Anna M. Agathangelou

First Published November 23, 2016; pp. 487–490

[Abstract](#)

> [Preview](#)

7.
IJERPH
(SOI Special Issue '19)

9. International Journal of Environmental Research & Public Health-Published in 2019(3 papers)

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- Special Issue Editors
- Special Issue Information
- Keywords
- Published Papers
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Prof. Dr. JinHyo Joseph Yun * E-Mail Website

Guest Editor

Convergence Research Center for Future Automotive Technology, Daegu Gyeongbuk Institute of Science and Technology (DGIST), Daegu, Korea
Tel. +82-53-785-4410 (010-6697-8355)

Interests: open innovation; business model; open innovation economy; social open innovation; schumpeterian dynamics; game theory; political economics; complexity

* Managing Guest Editor

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School of Environment, Tsinghua University, Beijing 100084, China

Interests: industrial ecology; circular economy; industrial ecosystem complexity; Eco-innovation



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Urbanization and Waterborne Pathogen Emergence in Low-Income Countries: Where and How to Conduct Surveys?

by Alexandra Bastarud , Philippe Cecchi , Pascal Handschumacher , Mathias Altmann and Ronan Jambou

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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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10-1. Knowledge Management Research& Practices-From 2018~Published in 2019

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Tatjana Nikitina  & **Inga Lapiņa**

Pages 96-107 | Received 07 Oct 2018, Accepted 02 Jan 2019, Published online: 18 Feb 2019

10-2. Knowledge Management Research& Practices-Published in 2018

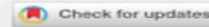
Original Articles

Improving entrepreneurial knowledge and business innovations by simulation-based strategic decision support system

Min-Ren Yan 

Pages 173-182 | Received 18 Dec 2017, Accepted 16 Feb 2018, Published online: 05 Mar 2018

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Original Articles

Harnessing the value of open innovation: change in the moderating role of absorptive capability

JinHyo Joseph Yun , Xiaofei Zhao & Sung Deuk Hahm

Received 04 Feb 2018, Accepted 23 Apr 2018, Published online: 28 May 2018

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Original Articles

The implication of ANT (Actor-Network-Theory) methodology for R&D policy in open innovation paradigm

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Received 06 Feb 2018, Accepted 23 Apr 2018, Published online: 31 May 2018

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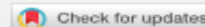
Original Articles

Exploring a relationship between creativity and public service motivation

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Received 22 Jan 2018, Accepted 23 Apr 2018, Published online: 15 May 2018

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11. International Journal of Knowledge-Based Development-Published in 2016, Vol.7 No. 2

[Home](#) > [International Journal of Knowledge-Based Development](#) > [2016 Vol. 7 No. 2](#)



[Browse issues](#)

[Vol. 9](#)
[Vol. 8](#)
[Vol. 7](#)
[Vol. 6](#)
[Vol. 5](#)
[Vol. 4](#)
[Vol. 3](#)
[Vol. 2](#)
[Vol. 1](#)

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Pages Title and authors

- | | |
|---------|--|
| 107-124 | Embracing networks of national policy research in future foresight Hyunuk Kim; Taekho You; Sang-Jin Ahn; Woo-Sung Jung DOI: 10.1504/IJKBD.2016.076464 |
| 125-142 | Perceived innovation barriers and open innovation performance: insights from Korea Daehan Jung; Yoonjung Kim; Yoonkyo Suh; Youngmi Kim DOI: 10.1504/IJKBD.2016.076466 |
| 143-159 | Clustering and commuting patterns of knowledge workers. A comparative analysis of Barcelona and Helsinki metropolitan areas Juan Eduardo Chica; Carlos Marmolejo DOI: 10.1504/IJKBD.2016.076467 |
| 160-183 | Knowledge-based urban development potential of Turkish provinces Sinem Metin Kacar; Ferhan Gezici DOI: 10.1504/IJKBD.2016.076465 |
| 184-201 | Complex regional innovation networks and HEI engagement - the case of Chicago Ilpo Laitinen; Michael Osborne; Jarii Stenvall DOI: 10.1504/IJKBD.2016.076462 |

10.

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(Non-SOI Special Issue)

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Page CO2
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| | | |
|---|--|---------------|
|  Regular Article | Not invented here: technology licensing, knowledge transfer and innovation based on public research Guido Buenstorf, Matthias Geissler | Pages 481-511 |
|  Regular Article | Agent-based modelling of novelty creating behavior and sectoral growth effects—Linking the creative and the destructive side of innovation <u>Frank Beckenbach</u> , Maria Daskalakis, David Hofmann | Pages 513-542 |
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|  Regular Article | Creative destruction and fiscal institutions: a long-run case study of three regions Lars P. Feld, Jan Schnellenbach, Thushyanthan Baskaran | Pages 563-583 |
|  Regular Article | Is novelty always a good thing? Towards an evolutionary welfare economics Christian Schubert | Pages 585-619 |

| | | |
|---|--|-----------------|
|  Regular Article | <u>Production and financial linkages in inter-firm networks: structural variety, risk-sharing and resilience</u> Giulio Cainelli, Sandro Montresor... | Pages 711-734 |
|  Regular Article | Does history matter?: Empirical analysis of evolutionary versus stationary equilibrium views of the economy Kenneth I. Carlaw, Richard G. Lipsey | Pages 735-766 |
|  Regular Article | The international diffusion of biotechnology: the arrival of developing countries Jorge Niosi, Petr Hanel, Susan Reid | Pages 767-783 |
|  Regular Article | Schumpeterian patterns of innovation and the sources of breakthrough inventions: evidence from a data-set of R&D awards Roberto Fontana, Alessandro Nuvolari, Hiroshi Shimizu... | Pages 785-810 |
|  Regular Article | R&D, patents and stock return volatility Mariana Mazzucato, Massimiliano Tancioni | Pages 811-832 |
|  Regular Article | Building systems Brian J. Loasby | Pages 833-846 |
|  Regular Article | Financial system and technological catching-up: an empirical analysis Muhammad Nadeem Javaid, Pier-Paolo Saviotti | Pages 847-870 |
|  Regular Article | Entrepreneurial cyclical dynamics of open innovation JinHyo Joseph Yun, DongKyu Won, KyungBae Park | Pages 1151-1174 |

13.

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