

# **CV of JinHyo Joseph Yun**

Education

Editorship for Academic Journal

Work Experience

Academic Activities

Lecture Career

Social Activities

Published Paper List

Business Model Patent List

Book writing

Paper Presentation in the Academic Society

Research Reports

Awards

## JINHYO JOSEPH YUN

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Birth Day: March 24, 1968  
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### EDUCATION

- 2014 Korea National Open University  
• BA in Computer Science
- 2002 Korea University  
• PhD in Technology Management & Technology Policy,  
(Science Management)  
• Dissertation: “A Study on the Development of Technological  
Capability and the Transformation of Inward Foreign Direct  
Investment in Korea”
- 1997 Seoul National University  
• MA in Public Policy,  
• Dissertation: “A Research on Specializing Policy of University of  
Science and Engineering”
- 1993 Korea University  
• BA in Political Science

### EDITORSHIP FOR ACADEMIC JOURNAL

- 2015 Editor in Chief  
Journal of Open Innovation: Technology, Market, and Complexity  
which is being published from 2015 January by Springer  
Press(Scopus and SSCI pending) <http://www.jopeninnovation.com>
- 2017 Editor member of  
[Knowledge Management Research and Practices\(SSCI\)](#)
- 2017 Editor member of  
**Sustainability**, Economic, Business and Management  
Session(SSCI, Q2)

2015 Associate Editor  
Asia Pacific Journal of Innovation and Entrepreneurship  
Journal of the Korea Entrepreneurship (Korean)

Editor Member

Journal of Commerce and Information Review (Korean)  
Journal of Technology Innovation (Korean)  
Journal of Innovation Cluster (Korean)

2015 Journal of Systems, Cybernetics, and Informatics

### **WORK EXPERIENCE**

1. Professor at Open Innovation Academy of SOItnC (2016 September - Now)
2. Tenured Principal Researcher of DGIST(2005, May – Now)
  - Tenured Researcher at Convergence Research Center for Future Automotive Technology
  - IOI and Robot convergence Research Division
  - Innovation Program for Start-up , 1 year course
  - Business Model (Patents) Development
  - Open Innovation Strategy Reteach
  - Computer simulation research on the relation between technology and market by System Dynamics and ABM
3. Assistant Professor / Technology Management - Graduate School of Technological management, Chonnam National University (January 2011 – December 2011)
4. Visiting Assistant Professor - Gyeongnam National University of Science and Technology (November 2009 – October 2010)
  - Conducted studies on business start-up
  - Books published on business start-up
  - Lectures on business start-up
  - Performed research on open innovation

- Published open innovation textbooks
5. Senior Research Fellow(Tenure state) - Daegu-Gyeongbuk Institute of Science & Technology (May 2005 – October 2009)
    - Studied the factors of commercialization in IT & BT industries
    - Conducted interview survey on the factors of commercialization in IT & BT industries
    - Evaluation project on government-funded institutes
    - Innovative cluster & regional development policy
    - Open innovation
    - Open Business Model
  6. Senior Researcher(Tenure state) - Korea Institute of Science and Technology Evaluation and Planning under the Deputy Prime Minister for Science & Technology (May 2002 – May 2005)
    - Drawing up of nations' technology roadmap
    - Technology impact assessment
    - Technology predictions
    - Planning & drawing up of a master plan for the administration of former president Roh Mu-hyun, among others
  7. Research Fellow - Korea Research Council of Fundamental Science & Technology under the Prime Minister's Office (June 1989 – May 2002)
    - Drawing up of technology roadmap in life science area
    - Drawing up of technology roadmap in nano area
    - Evaluation of government-funded institute
    - Research & planning technology policies
  8. Research Fellow - Korea Environment Institute (September 1997 – April 1998)
    - Environmental impact assessment
  9. Associate - Korea Electric Power Corporation (December 1996 – August 1997)
    - Conducted public enterprise performance evaluation

### **ACADEMIC ACTIVITIES**

1. President of Society of Open Innovation: Technology, Market, and Complexity(SOItmC, [www.openinnovaitontmc.org](http://www.openinnovaitontmc.org))

2. Organizing Chair of SOItmC and Riga Univeristy 2017 international conference, 2017 June 15-18, Riga University, Latvia
3. Organizing Chair of SOItmC and CSCOM 2016 International conference, 2016 May 31-June 3, SJSU, USA.
4. Hosting Chair of SOItmC and WCI 2015 international conference, 2015 June 14-18, DGIST KOREA
5. Professor - Lecture on Business Model Developing at DGIST (2011 – 2015)
6. Research Commissioner - Korean Association of Governmental Studies (2008 – February 28, 2011)
7. Liaison Director - Seoul Association for Public Administration (January 1 – December 31, 2010)
8. General Affairs Commissioner, Society Member - Korean Association for Public Administration (January 1 – December 31, 2007)
9. Education and Employment Commissioner - Korean Association for Public Administration (January 1 – December 31, 2008)
10. Executive Director - Korean Association of Governmental Studies (March 1,2008 – April 2009)
11. Executive Director - Seoul Association for Public Administration (March 2008 – December 2009)
12. Commissioner for the Special Committee of Policy Studies, Member of Education Society - Korean Association for Policy Studies (January 2007 – December 2007)
13. Director of Academic Information Committee - Korean Association for Local Governmental Studies (March 2007 – April 2009)
14. Society Fellow since 2003; Director, Technological Innovation Society - The Korean Society for Technological Innovation (January 1, 2007 – Present)
15. Editorial Board Member - Korean Society of Innovative Cluster (February 2008 – Present)
16. Editor - Korean Society for Innovation Management & Economics (March 2013 – Present)
17. Board of Directors , Editorial Board Director - Korea Association for Global Commerce and Cyber Trade (March 2013 – Present)

18. Associate Editor for Asian Pacific Journal of Innovation and Entrepreneurship (May 2013 – Present)
19. Editor for 2013 May Special Issue “Open Innovation, Knowledge City and Creative Economy” Asian Association of Business Incubation (May 2013 – Present)
20. Editorial Board Member - Journal of Economics and Business (December 2012 – Present)
21. Special Editor for article “Open Innovation and Service Industry” - International Journal of Knowledge-Based Development (September 2013)
22. Editor in Chief, Editorial Board - International Journal for Open Innovation: Technology, Market, and Complexity (June 2014 (to be published))

### **LECTURING CAREER**

1. Lecturer - Business Model In New Ventureing. Graduate Program, (Daegu-Gyeongbuk Institute of Science and Technology) DGIST (March 1, 2014 – August 31, 2015)
2. Lecturer - Business Model In New Venturing. Graduate program, (Daegu-Gyeongbuk Institute of Science and Technology) DGIST (March 1 – August 31, 2013)
3. Lecturer - Business Model Is New Venturing. Graduate program, DGIST (September 1 – December 31, 2012)
4. Lecturer - Business Model Is New Venturing. Graduate program, DGIST (March 1 – August 31, 2012)
5. Adjunct Professor - Graduate School of Business Management, Chonnam National University (January 1 – December 31, 2013)
6. Part-time Lecturer - Introduction to Policy Studies. Graduate School of Public Administration, Keimyung University (March 1– August 30, 2011)
7. Part-time Lecturer - Theory and Practice of Technology Policy. College of Engineering, Kyungpook National University (March 1– August 30, 2011)
8. Adjunct Associate Professor - Technology & Business Start-up, Etc. Gyeongnam National University of Science and Technology (November 2009 – October 2011)

9. Part-time Lecturer - Business Start-up in Electronic Trade Special Lecture for Electronic Trade and Seminar on MIS Case, Keimyung University (September 1 – February 2011)
10. Part-time Lecturer - Special Lecture on Electronic Trade and Commerce MIS Seminar, Keimyung University (September 2009 – February 2010)
11. Part-time Lecturer - Technology Management. Graduate School of Business Management, Keimyung University (March – August 2009)
12. Part-time Lecturer - Theory and Practice of Cluster. Department of Economics, Kyungpook National University (March – August 2009)
13. Part-time Lecturer - The Theory and Practice of Technology Policy; The Theory and Practice of Cluster. Department of Economics, College of Engineering, Kyungpook National University (March – August 2008)
14. Part-time Lecturer - Science & Technology Policy. Department of Public Administration, Keimyung National University (September 1, 2007 – February 2008)
15. Part-time Lecturer - The Theory and Practice of Innovative Cluster. Department of Economics, Kyungpook National University (March 2, 2007 – August 31, 2007)
16. Part-time Lecturer - Management of Science and Technology. Technology, Business Administration and Interdisciplinary Studies, Ewha University (March 2, 2007 – August 31, 2007)
17. Part-time Lecturer - Innovation System Theory. Joint graduate program in S&T studies, Korea University (September 1, 2006 – February 28, 2007)
18. Part-time Lecturer - R&D Management Theory. Graduate program, Kyungpook National University (September 1, 2006 – February 28, 2007)
19. Part-time Lecturer - Environmental Policy. Department of Environmental Science, Ewha University (September 1, 2006 – February 28, 2007)
20. Part-time Lecturer - Environmental Policy. Department of Environmental Science, Ewha University (September 1, 2005 – February 28, 2006)
21. Part-time Lecturer - Environmental Policy, Advanced Theories of Environmental Policy. Department of Environmental Science, undergraduate and graduate programs, Ewha University (September 1, 2004 – February 28, 2005)
22. Part-time Lecturer - Science Policy. Department of Biotechnology, Graduate Program, Korea University (March 1, 2004 – August 31, 2004)

23. Professor-Lecture on Business Model at KyungBuk National Univeristy (2015.9-2016.02).

### **SOCIAL ACTIVITIES**

1. Committee Member, Cultural Planning Committee (March 2014 – 2015 Present)
  - Consult about cultural policies in Gyeongsangbuk-do
2. Economic Columnist for the Maeil Daily News (July 1, 2012 – June 30, 2013)
3. Advisor to Gyeongbuk Province's Green Growth Commission (December 2008 – June 2015 Present)
4. Investment Promotion Adviser to Daegu-Gyeongbuk Free Economic Zone Agency (November 2008 – 2009)
5. Manager, Public Institute Evaluation Team under the Ministry of Planning and Budget (February 2008 – December 2008)
6. Commissioner, Daegu Knowledge-based Industry Cluster Promotion Committee (February 20, 2007– February 20, 2008)
7. Planning Commissioner for Dalseo TFI Forum Dalseo-gu office, Daegu City (May 3, 2007 – 2008)
  - Acted as an adviser for the innovative cluster policy in Sungseo Industrial Complex, Dalseo-gu, Daegu
8. Columnist, "The Science" (Donga Daily News Webzine) (November 2008 – 2009)
9. Biweekly Columnist of "Yun, Jin-Hyo's Technology & Economy Light Touch" (November 2008 – 2009)
10. Guest Reporter and Movie Columnist, Yeongnam Daily News (February 2007 – December 2007)
  - Columnist for "Knowledge-based Economy in Movie"
  - "Knowledge-based Economy, Regional Development, and Movie"
11. Economic Columnist, Daegu CBS Radio Station (January 2007 – July 30, 2007)
12. Economic Columnist, Yeongnam Daily News (January – December 2006)
  - Wrote financial columns and editorials—monthly columns
13. Commissioner for the local administration, Daegu Metropolitan City (October – December 2006)



- Daegu industrial development roadmap planning committee
  - General committee commissioner
14. Government-affiliated Organizations Public Performance Evaluation Team, Ministry of Planning and Budget (March 2 – December 2007)
- Evaluate major projects conducted by government-affiliated organizations
15. Innovation Consulting Team, Ministry of Planning and Budget (September – December 2006)
- Commissioner of innovation consulting team of public institutions
  - Innovation consulting commissioner for government-funded research institutes
16. Scientific and Technical Administration Reorganization TFT, Presidential Committee on Government Innovation & Decentralization (February – July 2004)
- Commissioner for Scientific and Technical Administration Reorganization TFT

## PUBLISHED PAPER LIST

1. Yun J.H.J., Mohan Avvari V., Zhao X. (2017). "Collectivism, Individualism and Open Innovation: Introduction to the Special Issue on "Technology, Open Innovation, Markets and Complexity". *Science, Technology, and Society*. Vol 22. No 3, 379-387
2. Yun J.H.J., Park K.B., Im Ch.J., Shin C.H., Zhao X. (2017). "Dynamics of Social Enterprises-Shift from Social Innovation to Open Innovation". *Science, Technology, and Society*, Vol. 22. No 3, 425-439
3. Yun J.H.J., Jeong E.S., Lee C.H., Park J.S., Zhao X.(2017). "Effect of Distance on Open Innovation: Differences among Institutions According to Patent Citation and Reference" *Sustainability* 9(1478). Pp. 1-15.
4. Yun J.H.J., Wan D.K., Jeong E.S., Park K.B., Lee D.S.(2017). "Dismantling of the Inverted U-Curve of Open Innovation". *Sustainability*, 9(1423). pp. 1-17.
5. Yun J.H.J., Tan Yigitcanlar(2017), "Open Innovation in Value Chain for Sustainability of Firms". *Sustainability*, 9(811), p. 1-8.
6. Yun J.H.J., Cooke P., Park J.Y., (2017). "Evolution and variety in complex geographies and enterprise policies". *European Planning Studies*, Vol. 25, No 5, pp 729-738.
7. Yun J.H.J., et al. (2017). "Growth of a platform business model as an entrepreneurial ecosystem and its effects on regional development", *European Planning Studies*, Vol. 25, No. 5, pp. 805-826.
8. Yun J.H.J., Park K.B., Kim J.H. (2016). "Open Innovation Effort, Entrepreneurship Orientation and Their Synergies onto Innovation Performance in SMEs of Korea". *Science, Technology and Society*. 21-3. pp
9. Yun J.H.J., Park K.B.(2016). " How User Entrepreneurs Succeed: The Role of Entrepreneur's Caliber and Networking Ability in Korean User Entrepreneurship",

*Science, Technology, and Society*. 21-3.

10. Yun J.H.J.(Corresponding), Yang J.H., Park K.B. (2016). "Open Innovation to Business Model: New Perspective to Connect between Technology and Market", *Science Technology and Society* 21(3). 1-25
11. Yun J.H.J., Lee D.S., Ahn H.J., Park K.B., Yigitcanlar T., (2016). "Dot Deep Learning but Autonomous Learning of Open Innovation for Sustainable Artificial Intelligence", *Sustainability*. 8, 797. 1-20
12. Yun J.H.J., Jeong E.S., Park J.S., (2016). "Network Analysis of Open Innovation", *Sustainability*. 8, 729. 1-21.
13. Yun J.H.J., Won D.K., Park K.B. (2016). " Dynamics from open innovation to evolutionary change", *Journal of Open Innovation: Technology, Market and Complexity*. Vol 2. No. 7.
14. Yun J.H.J., Leem Y.T. (2016). " Editorial: The smart city as an open innovation Knowledge city", *International Journal of Knowledge Based Development*, Vol. 7, No. 2. Pp. 103-106.
15. Yun J.H.J., Park K.B., Yang J.H., Jung W.Y. (2016). " The philosophy of open innovation: historical development of the philosophy of Open Innovation and its reflection from Taoism", *Journal of Science and Technology Policy Management*, Vol. 7, Issue 2, pp. 134-153.
16. Yun J.H.J.(First and Corresponding author), Won D.K., Jeong E.S., Park K.B., Yang J.H., Park J.Y.(2016). "The relationship between technology, Business Model, and market in autonomous car and intelligent robot industries". *Technology Forecasting and Social Change*. Vol 103. pp. 142-155.
- 15-1. Yun J.H.H. (2016) "Open Innovation: Technology, Market, and Complexity in South Korea". *Science, Technology and Society*, Vo. 21, Issue 3, pp 319-323.

17. Yun J.H.J. (2015). "How do we conquer the growth limits of capitalism? Schumpeterian Dynamics of Open Innovation". *Journal of Open Innovation: Technology, Market, and Complexity*. Vol. 1. No 17. 1-20
18. Yun J.H.J., Jeong E.S., Yang J.H. (2015) "Open Innovation of Knowledge cities". *Journal of Open Innovation: Technology, Market, and Complexity*. Vol. 1. No. 16. 1-20.
19. Kong-Rae Lee, JinHyo Joseph Yun and Eui-Seob Jeong.(2015) "Convergence innovation of the textile machinery industry in Korea" *Asian Journal of Technology Innovation*, Vol. 23. No. S1. pp. 58-73.
20. JinHyo Joseph Yun et al.(2015). " The Effect of Initial Public Offering(IPO) on Open Innovation: Findings from Seoul Digital Complex(SDC), *Korea Start-up Journal* . Vol. 10, No. 1, pp. 162-186.
21. JinHyo Joseph Yun et al.(2015). "Knowledge Strategy, and Business Model Conditions for Sustainable Growth of SMEs", *Journal of Science and Technology Policy Management*. Vol. 6, Issue 3. pp. 246-262.
22. JinHyo Joseph Yun et al.(2015) "Analyzing and Simulating the effects of open innovation policies: Application of the results to Cambodia" *Oxford Journal of Science and Public Policy* (2015) 42. pp. 743-760
23. JinHYo Joseph Yun(2014). "Why do we need open innovation: a letter from the guest editor." *Asia Pacific Journal of Innovation and Entrepreneurship*. Volume 8, No. 1. pp 9-14.
24. Yang and Yun(corresponding author) (2014). "New perspectives on open innovation from game theory: The Prisoners' Dilemma and the Ultimatum Game", *Asia Pacific Journal of Innovation and Entrepreneurship*. Volume 8, No. 1. pp. 39-57.
25. Yun J.H.J., Mohan A.V., Jeong Y.S., Lim D.W. (2014). "Introduction of an objective model to Measure open innovation and its application to the information technology convergence sector", *International Journal of Technology Policy and Management*. Vol 14. No 4.
26. JinHyo Joseph Yun, BongJin Cho(2014). "An Exploratory Study of the Economic

- Effect of Open Innovation”. *Journal of science and technology policy management*, Vol 5, Issue 1
27. Jin-Hyo Joseph Yun, Irene Muflikh Nadhiroh, & Woo Young Jung (2013). “The relationship between open innovation, entrepreneurship, and introduction of new business models in Korean and Indonesian information technology enterprises”. *Korean Social Science Journal*, Vol. 40, No.2. pp. 81-99.
  28. Jin-Hyo Joseph Yun & Woo Young Jung (2013). “Open innovation of SMEs in manufacturing from OI structure model”. *Asia Pacific Journal of Innovation and Entrepreneurship*, Vol. 7, No.1.
  29. Jin-Hyo Joseph Yun, Woo Young Jung, & Sang Pyo Kim (2013) “A study on the open innovation of the Korea aeroplane industry according to the spin-offs and partnership”. *International Commerce and Information Review*, Vol. 15, No. 2. pp. 163-185.
  30. Jin-Hyo Joseph Yun et al. “Is there any difference in the effect of open innovation according to the product life cycle?: Revisiting the relationship between product life cycle and trade”. *Journal of International Trade & Commerce*, Vol. 9, No. 2.
  31. Jin-Hyo Joseph Yun(2013). “Open innovation policies in Asian countries”. *Asian Research Policy*, Vol.4, No. 1.
  32. Jin-Hyo Joseph Yun (2013). “Ki Se-Choon: Interpreting the school of Mo-tzu”. *Sound of Mo-tzu*, 1st ed.
  33. Jin-Hyo Joseph Yun (2012) “A study on the geographical boundary and location of open innovation”. *Innovation Cluster Research*, Vol. 4, No.1.
  34. Jin-Hyo Joseph Yun & Geun-Woo Ryu (2012). “A study on the difference of open innovation effect between modular and non-modular firms in Korea”. *Asia Pacific Journal of Innovation and Entrepreneurship*, Vol.6, No.1.
  35. Jin-Hyo Joseph Yun & Sang-moon Park (2012). “Open innovation and performance of SMEs: Comparison between Daegu/Kyeongbuk and other regions”. *Journal of Business and Economics*, Vol.28, No.1, pp. 1–22.
  36. Jin-Hyo Joseph Yun and Mohan A.V. (2012). Exploring open innovation approaches adopted by small and medium enterprises in emerging/growth industries: Case studies from Daegu-Gyeongbuk region of South Korea. *International Journal of Technology, Policy and Management*, Vol.12, No.1, pp. 1–19.

37. Jin-Hyo Yun & Byung-Tae Kim (2011). "A preliminary study on new innovation phenomena based on IT technology development". *Journal of Daegu Gyeongbuk Development Institute*, Vol. 10, No. 1, pp. 111–126.
38. Jin-Hyo Joseph Yun, Sangmoon Park, & Mohan V. Avvari (2011). "Development and social diffusion of technological innovation: Cases based on mobile telecommunications in national emergency management". *Science Technology and Society*, Vol. 16, No. 2, pp. 215–234.
39. Jin-Hyo Joseph Yun, Sangmoon Park, Dong-Wook Lim, & Seung Deuk Hahm (2010). "Emergence of East Asian TFT-LCD Clusters: A Comparative Analysis of the Samsung Cluster in South Korea and the Chimei Cluster in Taiwan". *Asian Journal of Technology Innovation*, Vol. 18, No. 1, pp. 201–228.
40. Jin-Hyo Joseph Yun, Oh-Jin Kwon, Jin-Seo Park, & Ui-Sub Jung (2010). "A study on the development and adaption of open innovation analysis model". *Journal of Korea Technology Innovation Society*, Vol. 13, No. 1, pp. 99–123.
41. Jin-Hyo Joseph Yun (2009). "A study on the effect of organization variables to company performance." *Korean Review of Organizational Studies*, Vol. 6. No. 3, pp. 97-114.
42. Jin-Hyo Joseph Yun & Geun-Woo Ryu (2009). "A preliminary study on the theory and phenomena of Korea open innovation". *International Commerce and Information Review*, Vol. 11, No.2, pp. 203–230.
43. Jin-Hyo Joseph Yun & Myung-Shin Choi. "Comparative studies on the relationship between firm's open innovation and the performance among clusters: The cases of Sungseo and Kumi clusters". *Journal of Korean Policy Academic Studies*, Vol. 17, No. 4, pp. 111–140.
44. Dominik F. Schlosstein & Jin-Hyo Joseph Yun(2008). "Innovation cluster characteristics of Baden-Wuerttemberg and Gyeonggi-Do". *Asian Journal of Technology Innovation*, Vol. 16, No. 2, pp. 83–112.
45. Jin-Hyo Joseph Yun, Byung-Tae Kim, & DominikF. Schlosstein(2009). "Evaluating R&D management system: Strengths and weaknesses of universities and government funded research institutes". *International Journal of Technology Policy and Management*, Vol. 9, No. 3, pp. 235–255.
46. Bok-Kyu Kim& Jin-Hyo Joseph Yun (2008). "Design of the logical model of a program aimed at rural community invigoration project". *Korean Society and Public*

- Administration*, Vol. 9, No. 2, pp. 97–122.
47. Tae-Jong Lee, Jin-Hyo Joseph Yun, & Bum-Dong Jo (2008). "Analysis research on the relationship of structure and performance of academic supporting agencies: Based upon the academic promotion agencies". *Journal of Korean Administration Papers*, Vol.20, No.2, pp. 553–574.
  48. Jin-Hyo Joseph Yun & Dominik F. Schlosstein (2008). "Das nationale innovations sytem Sud-Koreas inmitten eines paradigmenwechsels". *Journal of DIW Quarterly Journal of Economic Research*, Vol. 77, No.2, pp. 113-127.
  49. Jin-Hyo Joseph Yun & Jung-Bong Ha (2007). "Research on regional cluster". *Journal of Commerce and Industry Information Research*, Vol.14, No. 4, pp. 214–240.
  50. Jin-Hyo Joseph Yun & Sang-Moon Park (2007). "Research on technology innovation from society: Based on the cases of emergency video transmitting system". *Journal of Technology Innovative Research*, Vol. 15, No.2, pp. 103–122.
  51. Jin-Hyo Joseph Yun, Sang-Moon Park, Dong-Wook Lim, & Sung-Duk Hahm (2007). "Comparative research among countries on LCD cluster: Based on the cluster of Asan and Tangjung of South Korea and Daenam cluster". *Journal of Korean Policy Academic Studies*, Vol. 16, No.4, pp. 247–276.
  52. Jin-Hyo Joseph Yun, Myung-Sin Choi, & Kyung-Soo Park (2006). "Conceptual research for the effects of suitability between industrial environment and development strategy on venture company". *Journal of Science & Technology Studies*, Vol. 6, No. 1, pp. 53–88.
  53. Jin-Hyo Joseph Yun, Myung-Sin Choi, & Kyung-Soo Park (2006). "Empirical study on the factors affecting technology innovation-driven SMEs' performance: Comparison between IT and BT industries". *Journal of Technology Innovation*, Vol. 14, No. 1, pp. 119–146.
  54. Jin-Hyo Joseph Yun, Myung-Sin Choi, & Kyung-Soo Park (2006). "A study about technology related facts which determine the output of companies in IT and BT industries". *Journal of Korea Technology Innovation Society*, Vol. 9, No. 2, pp. 350–372.
  55. Jin-Hyo Joseph Yun (2006). "Comparative studies of the impact of technology policy in IT and BT industry". *Journal of Governmental Studies*, Vol. 12, No. 2, pp. 281–304.

56. Jin-Hyo Joseph Yun, Yong-SooKo, & Jang-Jae Lee (2005). "An analysis on planning of Korea's science and technology basic plan of 2003–2007". *Journal of Governmental Studies*, Vol. 11, No. 1, pp. 353–371.
57. Jin-Hyo Joseph Yun & Dong-Gyu Won (2005). "The new Korea innovation systems: An application of system dynamics approach". *Korean System Dynamics Society*, Vol. 6, No. 1, pp. 71–98.
58. Jin-Hyo Joseph Yun (2003). "The structure and process of technological risk". *Journal of Science & Technology Studies*, Vol.3, No.1, pp. 75–103.
59. Jin-Hyo Joseph Yun (2002). "Challenges and solutions in the next government's science and technology policy: Focused on the analysis of each president's exercising leadership in science and technology fields." *Journal of Public Policy*, Vol. 12, pp. 55–80.

### **BUSINESS MODEL PATENT LIST**

1. Korea Patent. 10-2011-0120524. "Smart weekend farm trading system and method thereof". Woo-Young Jung, Jin-Hyo Yun, Jae-Young Park,& Min-Jung Kwon. **(registered 2013.07.01.)**
2. Korea Patent. 10-2011-0120522. "Smart real time concert system and method thereof". Woo-Young Jung, Jin-Hyo Yun, Jae-Young Park,& Min-Jung Kwon. **(registered 2013.05.30.)**
3. Korea Patent. 10-2012-0012973 "Real estate development Information intermediate method and system". Kyung Won Lee, Jin-Hyo Yun, Myung San Jun,& Woo Young Jung. . **(registered 2014)**
4. Korea Patent. 10-2012-0020081. (applied 2012.02.28.) "Method for offering ranking of law specialist and system". Young Jin Kim, Jin-Hyo Yun, Myung San Jun,& Woo Young Jung.
5. Korea Patent. 10-2012-0010027 "Time and location based survey marketing service providing server, and method thereof". Kyoung Hun Kim, Jin-Hyo Yun, Myung San Jun, &Woo Young Jung. . **(registered 2012.01.31., and transferred in 2014)**
6. Korea Patent. 10-2012-0015510. (applied 2012.02.15.) "Real-time social



- commerce providing server, and method thereof". Lee, Jung Ho | Kim, Do Uk Jin Hyo Yun, Myung San Jun,& Woo Young Jung.
7. Korea Patent. 10-2012-0010317. "Smart social library service method and system". Jin-Hyo Yun, Sang Hyun Lee, Myung-San Jun, Woo Young Jung,& Myung Jun Choi. **(Registered 2013.11.27. transferred in 2015)**
  8. Korea Patent. 10-2013-0036841. "Mobile-based putting posture correction device and method". Jin Hyo Yun, Woo Young Jung,& Bae-Hee Lee. **(2014 registered and transferred)**
  9. Korea Patent. 10-2013-0082355."Question bank service device and method". Jin Hyo Yun, Byung-Soo Choi, &Woo Young Jung.
  10. Korea Patent. 10-2013-0069705."Feedback public-relations server and method of manufacturing homepage using thereof". Jin Hyo Yun, Jung Seuk Moon,& Woo Young Jung. **(registered 2015)**
  11. Korea Patent. 10-2013-0082356. "Essay proofreading service device and method". Jin Hyo Yun, Byung-Soo Choi,& Woo Young Jung.
  12. Korea Patent. 10-2013-0144024. "Bed system for the detection of sleep and sleep state detection method". Jin Hyo Yun, Do Hyun Ahn,& Woo Young Jung.**(registered 2015)**
  13. Korea Patent. 10-2013-0137001. "Open business platform service method and device". Jin Hyo Yun, Sun Shin,& Woo Young Jung. **(registered 2015)**
  14. Korea Patent. 10-2014-0054961. "NAVIGATION APPARATUS USING LEARNINGINFORMATION AND METHOD THEREOF:. JinHyo Yun, JungHo Yang.
  15. Korea Patent. 10-2014-0054960 "ART MODULE APPARATUS FOR DRIVING AND CONTROLLING METHOD THEREOF." JinHyo Yun, JungHo Yang **(registered 2015)**
  16. Korea Patent 10-2014-0053594 "Cleaning robot control method and apparatus based on autonomous learning." JinHyo Yun, JungHo Yang. **(2015.05, registered)**
  17. Korea Patent 10-2014-0053593 "System for preventing drowsy driving by one touch and method thereof." JinHyo Yun, JungHo Yang.**(2015.5 registered)**
  18. Korea Patent 10-2014-010-6829 "SYSTEM FOR PROVIDING INFORMATION OF EMERGENCY PARKING LOCATION AND METHOD THEREOF" JinHyo Yun,

- JungHo Yang, SungGu Song, JaeMin Lee. (DGIST, Camcis)
19. Korea Patent 10-2014-0106828 “Network System for Inter-vehicle and Method thereof “ JinHyo Yun, JungHo Yang, SungGu Song, JaeMin Lee.(DGIST, Camcis) **(registered 2015 12)**
  20. Korea Patent 10-2014-0151358 “Smart Meditation Apparatus For Improving Concentration and Operation Method Thereof” JinHyo Yun, JungHo Yang, YunJung Lee(DGIST, Create Space)
  21. Korea Patent 10-2014-0153686 “ Indoor Harmful gas emissions system” JinHyo Yun, JungHo Yang, ByungJoon Choi(DGIST, IDEALL Systems)**(2016. 8 registered)**
  22. Korea Patent 10-2014-0046875 “Smart Air Conditioning System and Method” JinHyo Joseph Yun, JungHo Yang, JunHo Son(DGIST, and DongHa )**(2015.12 registered)**
  23. Korea Patent 10-2015-0087501 “Survey server and panel management method using the survey server” “Smart panel system construction and management method for mobile and online survey” JinHyo Joseph Yun, SangChul Lee, JungHo Yang(DGIST), Kyung-Hun Kim(NeoEoconoySociety)
  24. Korea patent 10-2015 -0083337 “Smart terminal and method for measurement of object length using the same” JinHyo Joseph Yun, SangChul Lee, JungHo Yang(DGIST), JinHeung Kim **<Register, 2016.12.02, 1016843370000>**
  25. Korea patent 10-2015-0152005 “SMART LIBRARY MANAGEMENT APPARATUS AND METHOD THEREOF” JinHyo Joseph Yun, JungHo Yang**<Registered, 2017.04.27>**
  26. Korea patent 10-2015-01603888 “SYSTEM FOR ADVERTISEMENT USING SMART BENCH AND METHOD THEREOF” JinHyo Joseph Yun and JungHo Yang**<Registered, 2017, 6.29>**
  27. Korea patent 10-2015-0152007 “SMART GUARD APPARATUS AND METHOD THEREOF” JinHyo Joseph Yun and JungHo Yang**<Registered, 2017,05,31>**
  28. Korea patent 10-2015-0172548 “Smart Locking System Using User Terminal and Unlocking method thereof” JinHyo Joseph Yun, JungHo Yang, Mun, Kim, Song**<Registered, 2017,6.28>**

29. Korea patent 10-2016-0123127 “Smart Golf Caddy Common System” JinHyo Joseph Yun, WooYoung Jung, SeungHoon Park, BaeHee Lee
30. Korea patent 10-2016-0123124, “Common smart parking platform system” JinHyo Joseph Yun, WooYoung Jung, SeungHoon Park
31. Korea Patent 10-2016-0123353 “System for improve smart social value” JinHyo Joseph Yun, KeunBaek Park, SeungHoon Park, WooYoung Jung
32. Korea Patent 10-2016-0123128 “Smart photo sharing system using position information” JinHyo Joseph Yun, SeungHoon Park, WooYoung Jung
33. Korean Patent 10-2017-0141186(2017.10.27) “Mobile smart advertisement platform system and method” JinHyo Joseph Yun(55%), Xiaofei Zhao(35%), WooYoung Jung(10%)
34. Korean Patent 10-2017-0141187(2017.10.27) “Smart pet dog taking a walk management system” JinHyo Joseph Yun(55%), Xiaofei Zhao(35%), WooYoung Jung(10%)
35. Korean Patent 10-2017-0141185(2017.10.27). “Smart automotive cleaning system and method thereof” JinHyo Joseph Yun(55%), Xiaofe Zhao(30%), WooYoung Jung(15%)

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2. Yun JinHyo Joseph, et al. (2016). *Meditation on Vacancy for cultivating Creative entrepreneurship: Asking Lao-Tzu the direction of Open Innovation*. Book and World Press. Seoul (In Korean)

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1. Yun J.H.J., Zhao X., Tan A. (2017) "Open Innovation by Architecture".

International Conference of Technology Policy and Innovation, September 26-29, Taipei, Taiwan.

2. Yun J.H.J., (2017)“Open Innovation to Business Model from Business Model Design Compass; - The way to respond to the 4<sup>th</sup> industrial revolution”. Asian Society for Innovation and Policy 2017 Hanoi Conference, 2017 September 21-23. **Keynote paper.**
3. Yun J.H.J, Jeong Y.S., Lee C.H., Park J.S. Zhao X. (2017) “Distance between technology and market, and Difference of Open Innovation – among university, national lab Fortune 500 firms, Fortune Non 500 firms, and Start-ups”. SOItmC 2017 Conference, at Livia, Riga, on June 15-18, 2017.
4. Yun J.H.J, Zhao X., and Hahm S.D..(2017) “Harnessing the value of open innovation: Change in the moderating role of absorptive capability in the South Korean Manufacturing Sector”. SOItmC 2017 Conference, at Livia, Riga, on June 15-18, 2017.
5. Yun J.H.J, Park K.B, Jeon J.H., Zhao X (2017) “Benefits and Costs of Closed Innovation Strategy: Analysis of Samsung Note 7 Battery explosion”. SOItmC 2017 Conference, at Livia, Riga, on June 15-18, 2017. **<Keynote speech paper>**
6. Yun J.H.J, Abiodun A. Egbetokun, Zhao X, Im C.J. (2017) “How does a social open innovation succeed? Learning from Buro Battery and Grassroots innovation Festival of India”. SOItmC 2017 Conference, at Livia, Riga, on June 15-18, 2017.
7. Yun J.H.J, Won D.K., Jeong E.S., Park K.B., Park K.B., Lee D.S. (2017) “Dismantling of the inverted U Curve”. SOItmC 2017 Conference, at Livia, Riga, on June 15-18, 2017.
8. Yun J.H.J, Won D.K., Park K.B., Jeong E.S., Zhao X (2017) “The role of a business model in market growth: The difference between the converting industry and the emerging industry”. SOItmC 2017 Conference, at Livia, Riga, on June 15-18, 2017.
9. Yun J.H.J, Won D.K., Park K.B, (2017) “Entrepreneurial Cycling Dynamics of

Open Innovation: The road to Entrepreneurial State in the 4<sup>th</sup> industrial revolution". SOLtmC 2017 Conference, at Livia, Riga, on June 15-18, 2017.

10. "Let us conquer the growth limits of capitalism through open innovation Knowledge city" Keynote speech at Korean Sun Energy Society 2017 Spring Conference at EXCO on spring 6-7.
11. Yun J.H.J., Zhao Z.F.(2017) "Open Innovation by Architecture" at Korean Sun Energy Society 2017 Spring Conference at EXCO on spring 6-7.
12. Yun J.H.J., Jeong E.S., Lee C.H., Park J.S., Zhao Z.F.(2017) "How long the distance between technology and market? " at Korean Sun Energy Society 2017 Spring Conference at EXCO on spring 6-7.
13. "Distance between technology and market according to the regional Asymmetric knowledge capabilities-among university, national lab, MNCs, and SMEs and Start-ups" SOLtmC and CSCOM 2016 conference, SJSU, Yun(first and corresponding author), Jeong E.S, Lee C.H.
14. "Success Factors and Dynamics of Social open innovation" SOLtmC and CSCOM 2016 conference, SJSU, Yun J.H.J.(first and corresponding author), Park K.B., Lim C.J., Shin C.H.
15. "Network analysis of open innovation" SOLtmC and CSCOM 2016 conference, SJSU, Yun J.H.J.(First and Corresponding author), Jeong E.S., Park J.S.
16. "Open the black box of the open innovation effect-by game of life simulation about the reverse U curve" SOLtmC and CSCOM 2016 conference, SJSU, Yun J.H.J.(First and Corresponding author), Yun J.H.J., Jeong E.S. Park K.B., Lee S.S.
17. "Difference of open innovation effect between before/after World Economy Crisis" SOLtmC and CSCOM 2016 conference, SJSU, Yun J.H.J. (first and corresponding author), Shin C.H., Park K.B.

18. "Not deep learning but autonomus learning of open innovation for sustainable artificial intelligent" SOItmC anc CSCOM 2016 conference, SJSU, Yun J.H.J., Lee D.S., Ahn H.J., Yigitcanlar Tan
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22. "How do we conquer the growth limit of capitalism: Schumpeterian Dynamics of Open Innovation Economy System" SOItmC and KCWS 2015 Conference, DGIST, Yun(1 author, Keynote speech paper).
23. "Open Innovation of Knowledge Cities" SOItmC and KCWS 2015 Conference, DGIST, Yun(first and corresponding author), Jeong, Lee, Yang.
24. "Open Innovation Effort, entrepreneurship, Orientation and Their Synergies on Innovation" SOItmC and KCWS 2015 Conference, DGIST, Yun, Park, Kim.
25. "The Philosophy of "Open Innovation: Historical Development of Philosophy of Open Innovation and its reflection from Taoism" SOItmC and KCWS 2015 Conference, **DGIST**, Yun, Park, Yang, Jung. (June 17. 2015)
26. "How User Entrepreneurs Succeed: The Role of Entrepreneur's Caliber and Networking Ability in Korean User Entrepreneurship" SOItmC and KCWS 2015 Conference, DGIST, Yun and Park.
27. "A Study on the Dynamics of Platform Business Models" SOItmC and KCWS 2015 Conference, DGIST, Yun, Won, Park, Yang.
28. June 26. 2015 "Network Based Analysis of the Relation Between Joint Patent Applications and Performance of Firms" INSNA 25, Brighton, UK. Yun(First and Corresponding author), Yang, Jeong, Park, Park.
29. "Interaction model between direct and autonomous learnings in closed and open innovation condtion" Simultech 2015 conference, Colmar, Yun(first and corresponding author), Lee, Ahn, Park, Yang
30. "Business Model Developing Circles: from open innovation to creative business model" KCWS 7th Tallinn, Estonia, Yun(First author), Lee, Lim, Yang,

31. "The Differences in open innovation before and after IPO according to maturation of knowledge based society: findings from Seoul Digital Complex Companies" KCWS 7th Tallinn, Estonia, Jung, Yun(Corresponding author), Kim, Yang
32. "A review on the Korean information strategies using STIM model " KCWS 7th Tallinn, Estonia, Lim, Lee, Yun(Coauthor)
33. "Impacts of entrepreneurship, open innovation and their Synergy effects onto innovation performance: focusing on Korean IT SMEs" Asialics 2014 Daegu, Korea, Yun(First Author), Park, Kim
34. "Why the Korean textile machinery industry failed in competence building?" Asialics 2014 Daegu, Korea, Lee, Yun(Coauthor), Jeong
35. "The Effect of Initial Public Offering ((IPO) on Open Innovation: Findings from Seoul Digital Complex (SDC)" Korean Society of Technology Innovation 2014 Autumn Conference, Jeju, Korea Yun(First author), Jeong, Kim, Yang.
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37. "Knowledge and Business Model Condition for sustainable growth of SMEs". Jin-Hyo Yun (2013). Knowledge City World Summit. Istanbul.
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44. "Structure and key factors of open innovation of SMEs in manufacturing industry". Jin-Hyo Yun et al. (2013) International Conference on Management Innovation and Business Innovation (ICMIBI). Singapore.
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  76. "Analysis of the features of the planning and decision-making of Korean science and technology policy". Koh Yong-Soo, Jin-Hyo Yun,& Lee Jang-Jae (2003). Korea Technology Innovation Society: Autumn Symposium. Korea
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  81. "Theory and method of technology prediction—Based on social and economical viewpoint". Jin-Hyo Yun (2001). Korean Association of S&T Studies: Spring Symposium. Korea.
  82. "Criticism of two culture theory". Jin-Hyo Yun (1999). Korea Technology Innovation Society: Spring Symposium. Korea.

### **RESEARCH REPORTS**

1. "A Research on Open Innovation Strategy and Business Model for Enforcing the base of creative economy" JinHyo Joseph Yun, and JungHyo Yang(2015)
2. "A research on Open Innovation strategy and business model for enforcing the base of creative economy" JinHyo Joseph Yun, and JungHyo Yang (2014)
3. "IT fusion future strategic planning & business model study: Final report". Jung Woo-Young, Yun Jin-Hyo et al. (2013). DGIST. Daegu.

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5. "Biseul forum report". Lee Gong-Rae, Yun Jin-Hyo et al. (2012). DGIST. Daegu.
6. "IT fusion future strategic planning study: Step 1 report". Jung Woo-Young, Yun Jin-Hyo et al. (2011). DGIST. Daegu.
7. Research Director (February 2011) - "Business plan for using smartphones video features in real estate trade".
8. Research Director (December 2008) - "Dae-Gyeong science & technology capability strengthening and supporting project".
9. Research Director (February 2, 2009) - "Study on the planning of a regional new growth engine strengthening and designing pilot project".
10. Research Director. Ministry of Education, Science and Technology (December 17, 2008) - "Study for the R&D capacity and company output in the clusters—open innovation approach for Asian clusters".
11. Research Director. Ministry of Education, Science and Technology (December 2008) - "Survey into an innovation cluster's R&D capability and corporate performance".
12. Research Director (August 2008) - "Analysis of a regional cluster's innovation network and openness".
13. Research Scholar (December 2007) - "Feasibility study on Gumi-city agricultural Golden Valley developing project".
14. Research Scholar - "Investigation into the concept of the government's technological development leadership redesign". Ham Sung-deuk & Yun Jin-Hyo, Korea President System Research Center (2007).
15. Research Scholar - "Study on the strategy to develop the rural village invigoration project". Kim Bok-Kyu & Yun Jin-Hyo (2007). Korea Rural Development Administration.
16. Research Scholar - "Support of regional industries (industry, academy, & research collaboration system building)". Whang Gyu-Seok et al. (2007). Daegu-Gyeongbuk Institute of Science & Technology.
17. Research Scholar - "Analyzing the current situation of Daeduck R&D special zone support center's innovation ability, and devising its improvement measures". Yun Jin-Hyo, Park Sang-Moon, Im Dong-Wook, & Ham Sung-Deuk (2007). Chung-Ju

University.

18. Research Scholar - "Study on overseas direct investment in Korea and East Asia by the USA and Japan". Ham Sung-Deuk, Huh Wook, & Yun Jin-Hyo (2006). Korea University. Government Study Research Center.
19. Research Scholar - June 2006 "Study on the market-based R&D planning". Suh Jung-Hae, Yun Jin-Hyo et al. (2006). Korea Research Institute of Bioscience and Biotechnology. Daejeon.
20. "Theory and practice of cluster". Jang Ji-Sang & Yun Jin-Hyo (2006). Textbook for MBT cross training course of Kyungpook University. Fusiontexas Manpower Training Center, Daegu. Coauthorship (2 authors).
21. Research Director. Research data 2005-04 - "Documentary survey into science and technology policy study: 1995–2004". Yun Jin-Hyo et al. (2005). KISTEP, Seoul.
22. Research Director. Research data 2005-05 - "Exploratory study on S&T innovation center's policy agenda". Yun Jin-Hyo et al. (2005). KISTEP. Seoul.
23. Research Director. Research data 2005-06 - "Innovation management". You Hee-Yul, Yun Jin-Hyo, Park Goo-Sun, & Koh Yong-Soo (translation: 2005). KISTEP. Seoul.
24. Research Director. Research data 2005-03 - "Innovation: Application knowledge to development". You Hee-Yul, Yun Jin-Hyo, & Park Goo-Sun (translation: 2005). Korea Institute of S&T Evaluation and Planning (KISTEP). Seoul.
25. Research Manager - "Building and utilizing expert network for national science & technology evaluation and planning invigoration". Park Byung-Moo et al. (2003). KISTEP. Seoul.
26. Research Manager, General Subcommittee Commissioner - "The former government's science & technology master plan". Park Byung-Moo et al. (2003). KISTEP. Seoul.
27. Research Scholar - "S&T manpower cultivating master plan". Park Jae-Min et al. (2003). S&T Policy Institute. Seoul.
28. Research Scholar - "Planning study on Jeonbuk S&T development program". Park Jae-Min et al. (2003). S&T Policy Institute. Seoul.
29. Research Scholar - "A study on new S&T policy development and strategic planning support". Lee Jang-Jae et al. (2002). KISTEP. Seoul.

30. Research Scholar - "National technology Roadmap". Park Byung-Moo et al. (2002). KISTEP. Seoul.
31. "Study on IT based Open Innovation Strategy and Business Model Developing for motivating creative economy"(2015) JinHyo Joseph Yun and JungHo Yang

### **Awards**

1. Wonderful paper award

Yun J.H.J., Park K.B., Shin C.H., Lee S.I., (2016) "Dynamics of Social Enterprises – Shift from Social Innovation to Open Innovation", SOItmC and CSCOM 2016 conference, May 31-June 3, San Jose State University.

2. Best paper Award

Yun J.H.J., Won D.K., (2016) "Dynamics from open innovation to evolutionary change", SOItmC and CSCOM2016 conference, May 31-June 3, San Jose State University.

3. Beautiful paper Award

Yun J.H.J., Won D.K., Park K.B., Yang J.H., (2016) "Growing up of Platform Business Model as Entrepreneurial Ecosystem and its effects on regional development", SOItmC and CSCOM2016 conference, May 31-June 3, San Jose State University.

4. Fantastic paper Award

Yun J.H.J., Lee D.S., Ahn H.J., Park K.B., (2016) "Not deep learning but autonomous learning of open innovation for sustainable artificial intelligence", SOItmC and CSCOM 2016 conference, May 31–June 3, San Jose State University

5) Best paper award

Yun J.H.J., Park K.B., Jeon J.H. Zhao X. (2017) " Benefits and Costs of Closed Innovation

Strategy: Analysis of Samsung Note & Battery Explosion” , SOItmC and RTU 2017, June 15-18, Riga Technological University.

6) Most Cited paper.

Yun J.H.J., Won D.K., Park K.B. (2016). “Dynamics from open innovation to evolutionary change. *Journal of Open Innovation: Technology, Market, and Complexity* 2017-7.