

TAEKHO YOU

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I. SUMMARY

I am interested in a broad range of academic phenomena, especially for the academic system. I am trying to answer how the academic system is organized, how the researchers grow up and survive in academia, and how do we use these understandings to make decision making. To do this, I use methodologies in complex system, network science, and machine learning.

Main Research Interest: Complex System, Computational Social Science, Science of Science, and its applications.

Main Methodology: Network analysis, Game theory, Natural language processing, etc.

II. EDUCATION

Ph.D., Pohang University of Science and Technology *Mar. 2014 - Feb. 2021*

Dissertation title: Bibliometric analysis on greedy strategy and evolution in academic system

Department of Industrial and Management Engineering

Advisor: Woo-Sung Jung

Master, Pohang University of Science and Technology *Mar. 2012 - Feb. 2014*

Thesis title: Development of a console layout optimizer considering ergonomic design characteristics

Department of Industrial and Management Engineering

Advisor: Heecheon You

Bachelor, Pohang University of Science and Technology *Mar. 2007 - Feb. 2012*

Department of Industrial and Management Engineering

III. SCHOLARLY ACCOMPLISHMENT

Working papers

- [1] **T. You**, J. Park, J. Y. Lee, J. Yun, W.-S. Jung. Disturbance of greedy publications in academia. (In preparation)

Journal Publications

- [4] **T. You**, O.-H. Kwon, J. Yoon, W.-S. Jung (2021). Tracing the evolution of physics with a keyword co-occurrence network. *Journal of the Korean Physical Society*, 78(3), 236-243. (SCI, 2020 IF: 0.535)
- [3] **T. You**, W.-S. Jung (2018). A System Dynamics Analysis of National R&D Performance Measurement System in Korea, *Industrial Engineering & Management Systems*, 17(4), 833-839. (SCOPUS)
- [2] **T. You**, M. Kwon, H.-H. Jo, W.-S. Jung, S. K. Baek (2017). Chaos and unpredictability in evolution of cooperation in continuous time. *Physical Review E*, 96(6), 062310. (SCI, 2017 IF: 2.284)
- [1] H. Kim, **T. You**, S.-J. Ahn, W.-S. Jung (2016). Embracing networks of national policy research in future foresight, *International Journal of Knowledge-Based Development*, 7, 107-124. (SSCI)

Conference Presentations

- [5] **T. You**, O.-H. Kwon, I. Hong, W.-S. Jung (2020) Alliance structure between UN Security Council members with debates, *NetSci 2020*.
- [4] **T. You**, J. Park, J. Y. Lee, J. Yun, W.-S. Jung (2020) Comparing quality of questionable journal in academic ecosystem, *NetSciX 2020*.

- [3] **T. You**, W.-S. Jung (2018) A system dynamics of national R&D performance measurement system in Korea, *In Proceedings of the 2018 Spring Conference of Korean Institute of Industrial Engineers*.
- [2] **T. You**, M. Kwon, H.-H. Jo, W.-S. Jung, S. K. Baek (2017), Chaos and unpredictability in evolution of cooperation in continuous time, *2017 Korean Physical Society Spring Meeting*.
- [1] **T. You**, W.-S. Jung (2014). Bibliometric analysis for finding equality and competition in scholar community, *Physics of Social Complexity Workshop*.

Patents

- [1] Method and system for representative keywords in research field using keyword cooccurrence analysis, **T. You**, O.-H. Kwon, J. Yoon, W.-S. Jung, Korean Patent No. 10-2020-0039380. (Pending)

IV. RESEARCH EXPERIENCES

Postdoctoral fellow, at Soongsil University

May. 2021 - Present

Visiting Scholar, at Soongsil University

Oct. 2020 - Feb. 2021

V. OTHER PROJECT & TEACHING EXPERIENCES

ABM simulation of pedestrian dynamics in high school students

Mar. 2019 - Aug. 2019, at Pohangjecheol High School

Mathematical interpretation between two strategies in iterated Prisoners' Dilemma game

Mar. 2018 - Dec. 2018, at Pohangjecheol High School

TA: (IMEN491J) Special Lecture: Complex System Modeling and Simulation

Fall semester, 2015

TA: (IMEN491F) Entrepreneurship

Spring semester, 2014

VI. REFERENCES

Woo-Sung Jung (wsjung@postech.ac.kr, +82)54-279-8255 [office])

- Associate Professor, Department of Industrial and Management Engineering, Pohang University of Science and Technology

- Associate Professor, Department of Physics, Pohang University of Science and Technology

Jinhyuk Yun (jinhyuk.yun@ssu.ac.kr, +82)2-820-0953 [office])

- Assistant Professor, Department of Smart System Software, Soongsil University

Seung Ki Baek (seungki.baek@gmail.com, +82)51-629-5576 [office])

- Associate Professor, Department of Physics, Pukyong National University