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RESEARCH INTERESTS

Complex systems

Percolation, Synchronization

Bio- and Social network analysis

Future Internet, Surface growth modeling

Structures/Dynamics of/in complex networks

EDUCATION

KAIST, Ph. D. in Physics   Mar. 2004 - Jan. 2009
    Advisor: Dr. Hawoong Jeong
KAIST, M.S. in Physics   Sep. 2001 - Feb. 2004
    Advisor: Dr. Hawoong Jeong
POSTECH, B.S. in Physics   Mar. 1997 - Aug. 2001
    Advisor: Dr. Seunghwan Kim

EXPERIENCE

Assistant Professor, Hanyang University, Korea   Mar. 2012 – present

Post-Doctoral Researcher, Univ. of Calgary, Canada   Dec. 2009 – Feb. 2012

Post-Doctoral Researcher, KAIST, Korea   Feb. 2009 – Dec. 2009

Research Assistant, KAIST, Korea   Mar. 2004 – Jan. 2009

Teaching Assistant, KAIST, Korea   Sep. 2002 – Dec. 2004

Assistant Researcher, POSTECH, Korea   Mar. 2001 – Aug. 2001

HONORS, AWARDS & RESEARCH GRANTS

TJ Park Young Assistant Professors Science Fellowship	Jan. 2015 – Dec. 2016
General Research Program of National Research Foundation of Korea	Nov. 2014 – Apr. 2017
General Research Program of National Research Foundation of Korea	May 2012 – Apr. 2015
Top winner team of 2008 CYRAM Social Network Analysis Competition (Seoul, Korea)	Jan. 2009
Best poster award, The 2nd BK21 Young Physicists Workshop (Daejeon, Korea)	Jan. 2009
Best oral presentation, 2008 KPS fall meeting (Gwangju, Korea)	Oct. 2008
Best poster award, The 1st BK21 Young Physicists Workshop (Pohang, Korea)	Jan. 2008
Best oral presentation, 2007 KPS fall meeting (Jeju, Korea)	Oct. 2007
Korean Patent No. 10-0692319, "The finding method of new disease-associated genes through analysis of protein-protein interaction network"	Mar. 2007
Grand prize, The 1st KOBIC Bioinformatics Contest, KRIBB (Daejeon, Korea)	Feb. 2007
Research Assistantship, KAIST	Mar. 2004 – Feb. 2008
Teaching Assistantship, KAIST	Sep. 2002 – Feb. 2004
Winner team, Physics Web Contests 2000 (div.2), KPS	Apr. 2000

SPECIALITY & SKILLS

- Monte Carlo simulation of statistical physics problems
- Fluent in C and C++, good at Matlab GUI, possible to build up web pages with php, javascript, and html, and LaTeX for scientific writing
- Data mining programming , web crawlers
- Photoshop and Image Processing
- Unix, Linux server administration, Web server and other applications (wiki, blog, BBS, and other CGI programs) management, and Web design using CSS
- PC hardware managing, Windows administration and windows applications skill for data processing (Origin, Excel, Word, Powerpoint, etc.)

REVIEWED PUBLICATIONS

1. Y. Kim, Y. J. Kim, S.-W. Son*, and B. M. Weon*,
   "**Symmetric distribution in the last digits of the prime numbers**",
   in preparation (2015).

2. Y. J. Kim, M. Roh, S.-Y. Jeong, and S.-W. Son,
   "**Fine phase structures in the payoff space of iterated prisoners' dilemma games**",
   in preparation (2015).