Şirag Erkol

CONTACT INFORMATION

Indiana University
School of Informatics, Computing, and Engineering
Center for Complex Networks and Systems Research
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EDUCATION

Indiana University, Bloomington, IN

Ph.D. in Informatics, Complex Networks and Systems track **August 2017 – present**

- Advisor: *Assoc. Prof. Filippo Radicchi*
- Minor: Computer Science

Boğaziçi University, Istanbul, Turkey

M.S. in Industrial Engineering **September 2014 – August 2016**

- Advisor: *Assoc. Prof. Gönenç Yücel*
- Thesis Title: *Influence Maximization Based on Partial Network Structure Information: A Comparative Analysis on Seed Selection Heuristics*

B.S. in Industrial Engineering **September 2010 – June 2014**

- Graduation Project: *Analyzing Parking Stand Requirements for Istanbul Ataturk Airport*

Robert College, Istanbul, Turkey **September 2005 – June 2010**

ACADEMIC EXPERIENCE

Indiana University, Bloomington, IN

Research & Teaching Assistant **August 2017 – present**

- Assisted courses:
  INFO-I 369 - Performance Analytics (Spring 2020)

Boğaziçi University, Istanbul, Turkey

Research & Teaching Assistant **October 2014 – August 2017**

- Assisted courses:
  IE 312 - Facilities Design and Planning (Fall 2014, Fall 2015, Fall 2016)
  IE 350 - Systems Science and Engineering (Spring 2015, Spring 2016)
  IE 484 - Simulation Gaming and Decision Experimentation (Fall 2016)
  IE 48F - Agent-Based Modeling and Simulation (Spring 2015, Spring 2016, Spring 2017)
  IE 550 - Dynamics of Socio-Economic Systems (Fall 2015)

- Assistant at Socio-Economic System Dynamics (SESDYN) Laboratory

PUBLICATIONS

Published:

Systematic comparison between methods for the detection of influential spreaders in complex networks
Ş. Erkol, C. Castellano and F. Radicchi
Scientific Reports, 9, 15095 (2019)

Influence maximization in noisy networks
Ş. Erkol, A. Faqeeh and F. Radicchi
EPL, 123, 58007 (2018)

Influence Maximization Based on Partial Network Structure Information: A Comparative Analysis on Seed Selection Heuristics
Ş. Erkol and G. Yücel
International Journal of Modern Physics C, 28, 1750122 (2017)

CONFERENCES

Posters:

Systematic comparison between methods for the detection of influential spreaders in complex networks — **September 2020**
Network Science Conference, Online

Influence maximization in noisy networks — **May 2019**
Network Science Conference, Burlington, VT, USA

COMPUTER SKILLS

Programming Languages: C, Python, R, NetLogo
Others: LaTeX, Gephi, Git, Github, Stella

Last updated: September 16, 2020