

# Şirag Erkol

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CONTACT INFORMATION	Indiana University School of Informatics, Computing, and Engineering Center for Complex Networks and Systems Research 919 E 10 <sup>th</sup> St, Bloomington, IN 47408, USA	mobile: +1 812 558 8938 serkol@iu.edu siragerkol@gmail.com siragerkol.github.io
EDUCATION	<b>Indiana University</b> , Bloomington, IN <i>Ph.D. in Informatics, Complex Networks and Systems track</i> • Advisor: <i>Assoc. Prof. Filippo Radicchi</i> • Minor: Computer Science <b>Boğaziçi University</b> , Istanbul, Turkey <i>M.S. in Industrial Engineering</i> • Advisor: <i>Assoc. Prof. Gönenç Yücel</i> • Thesis Title: <i>Influence Maximization Based on Partial Network Structure Information: A Comparative Analysis on Seed Selection Heuristics</i> <i>B.S. in Industrial Engineering</i> • Graduation Project: <i>Analyzing Parking Stand Requirements for Istanbul Atatürk Airport</i> <b>Robert College</b> , Istanbul, Turkey	<b>August 2017 – present</b> <b>September 2014 – August 2016</b> <b>September 2010 – June 2014</b> <b>September 2005 – June 2010</b>
ACADEMIC EXPERIENCE	<b>Indiana University</b> , Bloomington, IN <i>Research &amp; Teaching Assistant</i> • Assisted courses: INFO-I 369 - Performance Analytics (Spring 2020, Spring 2021) <b>Boğaziçi University</b> , Istanbul, Turkey <i>Research &amp; Teaching Assistant</i> • 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	<b>August 2017 – present</b> <b>October 2014 – August 2017</b>
PUBLICATIONS	<b>Published:</b> Influence maximization on temporal networks <b>Ş. Erkol</b> , D. Mazzilli and F. Radicchi, <i>Physical Review E</i> , 102, 042307 (2020) [DOI] [arXiv] Systematic comparison between methods for the detection of influential spreaders in complex networks <b>Ş. Erkol</b> , C. Castellano and F. Radicchi, <i>Scientific Reports</i> , 9, 15095 (2019) [DOI] [arXiv] Influence maximization in noisy networks <b>Ş. Erkol</b> , A. Fageeh and F. Radicchi, <i>EPL</i> , 123, 58007 (2018) [DOI] [arXiv]	

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)  
[DOI]

**In review:**

Who is the best coach of all time? A network-based assessment of the career performance of professional sports coaches

**Ş. Erkol** and F. Radicchi  
[arXiv] [Website]

CONFERENCES

**Posters:**

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

**September 2020**

Influence maximization in noisy networks  
Network Science Conference, Burlington, VT, USA

**May 2019**

COMPUTER  
SKILLS

Frequent user of Python, L<sup>A</sup>T<sub>E</sub>X  
Experience in Django, NetLogo, HTML, CSS  
Familiar with MySQL, C, R, Git, Stella

LANGUAGES

English (fluent), Turkish (native), Armenian (native), French (beginner), Spanish (beginner)

*Last updated: February 23, 2021*