

# Şirag Erkol

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| CONTACT<br>INFORMATION | Indiana University<br>School of Informatics, Computing, and Engineering<br>Center for Complex Networks and Systems Research<br>919 E 10 <sup>th</sup> St, Bloomington, IN 47408, USA  | mobile: +1 812 558 8938<br>serkol@iu.edu<br>siragerkol@gmail.com<br>siragerkol.github.io  |
| EDUCATION              | <b>Indiana University</b> , Bloomington, IN<br><i>Ph.D. in Informatics, Complex Networks and Systems track</i><br>• Advisor: <i>Assoc. Prof. Filippo Radicchi</i><br>• Minor: Computer Science<br><b>Boğaziçi University</b> , Istanbul, Turkey<br><i>M.S. in Industrial Engineering</i><br>• Advisor: <i>Assoc. Prof. Gönenç Yücel</i><br>• Thesis Title: <i>Influence Maximization Based on Partial Network Structure Information: A Comparative Analysis on Seed Selection Heuristics</i><br><i>B.S. in Industrial Engineering</i><br>• Graduation Project: <i>Analyzing Parking Stand Requirements for Istanbul Ataturk Airport</i><br><b>Robert College</b> , Istanbul, Turkey   | <b>August 2017 – present</b><br><b>September 2014 – August 2016</b><br><b>September 2010 – June 2014</b><br><b>September 2005 – June 2010</b> |
| ACADEMIC<br>EXPERIENCE | <b>Indiana University</b> , Bloomington, IN<br><i>Research &amp; Teaching Assistant</i><br>• Assisted courses:<br>INFO-I 369 - Performance Analytics (Spring 2020)<br><b>Boğaziçi University</b> , Istanbul, Turkey<br><i>Research &amp; Teaching Assistant</i><br>• Assisted courses:<br>IE 312 - Facilities Design and Planning (Fall 2014, Fall 2015, Fall 2016)<br>IE 350 - Systems Science and Engineering (Spring 2015, Spring 2016)<br>IE 484 - Simulation Gaming and Decision Experimentation (Fall 2016)<br>IE 48F - Agent-Based Modeling and Simulation (Spring 2015, Spring 2016, Spring 2017)<br>IE 550 - Dynamics of Socio-Economic Systems (Fall 2015)<br>• Assistant at Socio-Economic System Dynamics (SESDYN) Laboratory | <b>August 2017 – present</b><br><b>October 2014 – August 2017</b>   |
| PUBLICATIONS           | <b>Published:</b><br>Influence maximization on temporal networks<br><b>Ş. Erkol</b> , D. Mazzilli and F. Radicchi<br><i>Physical Review E</i> , 102, 042307 (2020)<br>[DOI] [arXiv]<br>Systematic comparison between methods for the detection of influential spreaders in complex networks<br><b>Ş. Erkol</b> , C. Castellano and F. Radicchi<br><i>Scientific Reports</i> , 9, 15095 (2019)<br>[DOI] [arXiv]<br>Influence maximization in noisy networks<br><b>Ş. Erkol</b> , A. Fageeh and F. Radicchi<br><i>EPL</i> , 123, 58007 (2018)<br>[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

Python, L<sup>A</sup>T<sub>E</sub>X, Django, MySQL, C, R, HTML, CSS, NetLogo, Git, Stella

LANGUAGES

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

*Last updated: December 20, 2020*