Ali Eslami

Education

Ph.D., Electrical and Computer Engineering University of Massachusetts Amherst, Amherst, MA Thesis: A Non-Asymptotic Approach to the Analysis of Communication Net From Error Correcting Codes to Network Properties Advisor: Prof. Hossein Pishro-Nik	Feb. 2013
M.Sc., Electrical Engineering Sharif University of Technology, Tehran, Iran Thesis: Analysis of Network Coding in Wireless Networks Advisor: Prof. B. H. Khalaj	Sept. 2006
B.Sc., Electrical Engineering Sharif University of Technology, Tehran, Iran Thesis: <i>Investigating ISI in Digital Modulation Techniques</i> Advisor: Prof. M. H. Bastani	Sept. 2004
Work Experience	
Associate Professor, Dept. of Electrical and Computer Engineering Wichita State University, Wichita, KS	Aug. 2021-present
Assistant Professor, Dept. of Electrical and Computer Engineering Wichita State University, Wichita, KS	Jul. 2015-May 2021
Visiting Research Scholar, Information Initiative at Duke (iiD) Duke University, Durham, NC Supervisor: Prof. Robert Calderbank	Aug. 2014-Jun. 2015
Post-Doctoral Research Associate, Electrical and Computer Engineering	Mar. 2013-Apr. 2015

- Advanced data analytics for multi-layer interconnected networks.
- Evolutionary artificial general intelligence.

Funding

PI: Ali Eslami NSF EPSCoR Dec. 2023-Jan. 2025 Developing a Network Science to Study Cascading Failures in the Cyber-Physical Infrastructure

PI: Ali Eslami Excelacom Inc. Jul. 2021

Journals:

- 1. M. Okwori* and **A. Eslami**, Feature Engineering from Meta-Data for Prediction of Differentially Expressed Genes: An Investigation of Mus musculus Exposed to Space-*Computational Biology and Chemistry*, Vol. 109, Apr. 2024.
- 2. S. Kotiang* and A. Eslami, Density Evolution for Noise Propagation Analysis in Biological Networks, *IEEE Access*, vol. 10, pp. 4261-4270, Jan. 2022.
- 3. S. Kotiang* and A. Eslami, Boolean Factor G

 A. Eslami, S. Vangala, and H. Pihsro- Communication Systems IEEE Transactions on Communications, vol. 58, no. 10, pp. 2926-2938, Oct. 2010.

Conferences:

17. M. Okwori* and A. Eslami-MPred: Cofunctional Gene Network-based Mutation
Proc. IEEE International Conference on

Bioinformatics & Biomedicine (BIBM), Virtual Conference, pp. 2451-2455, Dec. 2021.

- S. Kotiang* and A. Eslami Probabilistic Factor Graph Modeling and Analysis of Biological Networks Proc. 28th International Conference on Intelligent Systems for Molecular Biology (ISMB), Held Virtually, July 2020.
- 19. A. Behfarnia* and A. Eslami, Local Voting Games for Misbehavior Detection in VANETs in Presence of Uncertainty, in *Proc. 57th Annual Allerton Conference on Communication, Control, and Computing,* Monticello, IL, USA, Sept. 2019.
- 20. A. Behfarnia* and A. Eslami, Risk Assessment of Autonomous Vehicles Using Bayesian Defense Graphs, in *Proc. IEEE Vehicular Technology Conference*, Chicago, IL, USA, Aug. 2018.
- 21. P. Vuka*, A. Behfarnia*, and A. Eslami
D-Enabled Micro Communication
17, Pittsburg, PA, USA, Jul. 2017.
- 22. A. Behfarnia* and

29. A. Eslami and H. Pishro-

in Proc. IEEE International Symposium on Information Theory (ISIT), Saint Petersburg, Russia, Aug 2011.

- 30. A. Eslami and H. Pishro-On Bit Error Rate Performance of Polar Codes in Finite Regime in proc. 48th Annual Allerton Conference on Communication, Control, and Computing, Monticello, IL, USA, Sept. 2010.
- 31. A. Eslami, M. Nekoui, and H. Pishro-Results on Finite Wireless Networks on A Line in Proc. IEEE Information Theory Workshop (ITW), Cairo, Egypt, Jan. 2010.
- 32. M. Nekoui, A. Eslami, and H. Pishro-Nik The Capacity of Vehicular Ad Hoc Networks with Infrastructure in Proc. 6th International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks and Workshops (WiOPT), Berlin, Germany, Apr. 2008.
- 33. M. Nekoui, A. Eslami, and H. Pishro-Nik Scaling Laws for Distance Limited Communications in Vehicular Ad Hoc Networks in Proc. IEEE International Conference on Communications (ICC), Beijing, China, May 2008.
- 34. A. Eslami Capacity of Network Coding for Wireless Multicasting Proc. 8th Annual IEEE Wireless and Microwave (WAMI) Technology Conference, Clearwater Beach, Florida, USA, Dec. 2006.
- 35. A. Eslami Wireless Multicasting Using Network Coding Proc. 1st IEEE International Workshop on Operator-Assisted (Wireless Mesh) Community Networks (OpComm), Berlin, Germany, Sept. 2006.

Theses/Dissertations Advised

Stephen Kotiang, Ph.D. Dissertation: Application of Graphical Models to Inference and Analysis of Biological Networks, Sep. 2022.

Michael Okwori, Ph.D. Dissertation: Application of Machine Learning Models

Threshold Phenomena in Finite Wireless Networks, School of Electrical, Computer and Energy Engineering, Arizona State University, Tempe, AZ, Aug. 2013.

Computer Skills

Programming Languages: Python, C++, Pascal, Assembly, TCL

Software Packages: MATLAB/Simulink, NS-2, LaTeX, MS Office, MS Visio

Professional Activities

Member of the Institute of Electrical and Electronics Engineers (IEEE), IEEE Communications Society and IEEE Computer Society.

NSF Review Panelist

Frequent Reviewer of Technical Articles:

 - IEEE Transactions on Neural Networks and Learning Systems, IEEE Trans. on Information Theory, IEEE Trans. on Communications, IEEE Communications Letters, IEICE Transactions on Communications, IEEE International Symposium on Information Theory, IEEE International Conference on Communications, IEEE GLOBECOM, IEEE Information Theory Workshop, International Conference on Telecommunications, IEEE SPAWC, Australian Communications Theory Workshop, International Symposium on Turbo Codes & Iterative Information Processing.