

Ali Yekkehkhany

Curriculum Vitae

<Electrical and Computer Engineering>
<125 Coordinated Science Lab Building>
<1308 W. Main St., Urbana Illinois 61801>
☎ <+1-217-333-2300>
✉ <yekkehk2@illinois.edu>
📧 ece.illinois.edu/directory/profile/yekkehk2

Education

- University of Illinois at Urbana-Champaign (UIUC), United States of America. Doctor of Philosophy (PhD), Electrical and Computer Engineering (ECE), GPA: 4/4, August 2020.
- University of Illinois at Urbana-Champaign, United States of America. Master of Science, Electrical and Computer Engineering, GPA: 4/4, May 2017.
- Sharif University of Technology (SUT), Tehran, Iran. Bachelor of Science, Electrical Engineering (EE), GPA: 18.03/20, May 2014.

Publication

- **Ali Yekkehkhany** and Rakesh Nagi. “Blind GB-PANDAS: A Blind Throughput-Optimal Load Balancing Algorithm for Affinity Scheduling.” *IEEE/ACM Transactions on Networking*.
- **Ali Yekkehkhany** and Rakesh Nagi. “Risk-Averse Equilibrium for Autonomous Vehicles in Stochastic Congestion Games.” Submitted to *Journal of Transportation Science*.
- **Ali Yekkehkhany**, Timothy Steven Murray, and Rakesh Nagi. “Risk-Averse Equilibrium for Stochastic Games.” Submitted to *Journal of Stochastic Systems*.
- **Ali Yekkehkhany**, Ebrahim Arian, Rakesh Nagi, and Ilan Shomorony. “A Cost-Based Analysis for Risk-Averse Explore-Then-Commit Finite-Time Bandits.” Submitted to *IEEE Transactions on Knowledge and Data Engineering*.
- **Ali Yekkehkhany**, Ebrahim Arian, Mohammad H. Hajiesmaili, and Rakesh Nagi. “Risk-Averse Explore-then-Commit Algorithms for Finite-Time Bandits.” *Conference on Decision and Control (CDC)*, 2019.
- **Ali Yekkehkhany**, Avesta Hojjati, and Mohammad H. Hajiesmaili. “GB-PANDAS: Throughput and heavy-traffic optimality analysis for affinity scheduling.” *ACM SIGMETRICS Performance Evaluation Review* 45, no. 2 (2018): 2-14.
- Qiaomin Xie, **Ali Yekkehkhany**, and Yi Lu. “Scheduling with multi-level data locality: Throughput and heavy-traffic optimality.” In *INFOCOM 2016-The 35th Annual IEEE International Conference on Computer Communications*, IEEE, pp. 1-9. IEEE, 2016.
- Mohammad Hosseini, Yu Jiang, **Ali Yekkehkhany**, Richard R. Berlin, and Lui Sha. “A mobile geo-communication dataset for physiology-aware dash in rural ambulance transport.” In *Proceedings of the 8th ACM on Multimedia Systems Conference*, pp. 158-163. ACM, 2017.
- Bahram Alinia, Mohammad Sadegh Talebi, Mohammad H. Hajiesmaili, **Ali Yekkehkhany**, and Noel Crespi. “Competitive Online Scheduling Algorithms with Applications in Deadline-Constrained EV Charging.” In *Proceedings of the IEEE/ACM International Symposium on Quality of Service (IWQoS)*, 2018.
- Du Su, **Ali Yekkehkhany**, Yi Lu, and Wenmiao Lu. “Prob2Vec: Mathematical Semantic Embedding for Problem Retrieval in Adaptive Tutoring.” *American Control Conference*, 2020.
- Hossein NZ Matin, **Ali Yekkehkhany**, and Rakesh Nagi. “Probabilistic Analysis of UAV Routing with Dynamically Arriving Targets.” In *2019 22th International Conference on Information Fusion (FUSION)*, pp. 1-8. IEEE, 2019.
- AmirEmad Ghassami, **Ali Yekkehkhany**, Negar Kiyavash, and Yi Lu. “A covert queueing channel in round robin schedulers.”

- **Ali Yekkehkhany.** “Near-Data Scheduling for Data Centers with Multiple Levels of Data Locality.” *Master Thesis.*
- **Ali Yekkehkhany.** “Risk-Averse Multi-Armed Bandits and Game Theory.” *PhD Dissertation.*

Talks

- Paper presentation (online) at the American Control Conference, 2 July 2020.
- Poster presentation at the 15th CSL Student Conference, 27 Feb. 2020.
- Invited talk at the Heinz College of Information Systems and Public Policy at the Carnegie Mellon University hosted by Professor Peter Yun Zhang, 25 Feb. 2020.
- The INFORMS Annual Meeting, 20 Oct. 2019.
- Guest presenter at the University of Illinois at Urbana-Champaign at group meeting of Professor Ilan Shomorony, 18 Oct. 2019.
- Invited talk at the Electrical Engineering Department at Yale University hosted by Professor Leandros Tassiulas, 13 Nov. 2017.
- Paper presentation at IFIP WG 7.3 Performance, the 35th international symposium on computer performance, modeling, measurements and evaluation, Columbia University, 14 Nov. 2017.
- Invited talk at the ECE Department of Iran University of Science and Technology, 1 Jan. 2016.
- Invited talk at the ECE Department of University of Tehran, 12 Jan. 2016.

Honors and Awards

- Best poster award in recognition of high-quality research, professional poster, and outstanding presentation in the 15th CSL Student Conference, 2020.
- Harold L. Olesen award for excellence in undergraduate teaching by graduate students for the 2019-2020 academic year at the University of Illinois at Urbana-Champaign.
- Chosen as one of the teachers ranked as excellent by students in Fall 2015 (LINK), Summer 2016 (LINK), Summer 2019 (LINK), and Fall 2019 (LINK) at the University of Illinois at Urbana-Champaign.
- Certificate in “Foundations of Teaching” and “Graduate Teacher Certificate” from Center for Innovation in Teaching and Learning at the University of Illinois at Urbana-Champaign, 2020.
- ACM SIGMETRICS Performance Evaluation travel grant, 2017.
- Ranked 8th in Konkoor among more than 270,000 participants (Konkoor is the Iran’s universities’ entrance exam for B.Sc. degree), summer 2010.
- Dean’s Honorary Award by President of Sharif University of Technology, Sept. 2010.
- Member of Iranian National Elite Foundation, 2010 to 2014.

Research Experience

- **Machine Learning:** Graduate Research/Teaching Assistant at the University of Illinois at Urbana-Champaign, June 2017 to August 2020. Adviser: Professor Rakesh Nagi.
- **Cloud Computing:** Graduate Research/Teaching Assistant at the University of Illinois at Urbana-Champaign, August 2014 to May 2017. Adviser: Professor Yi Lu.
- **Information Theory:** Intern as a Junior Research Assistant at the Chinese University of Hong Kong (CUHK), Summer 2013. Adviser: Professor Chandra Nair.

Teaching Experience

- ECE, UIUC Guest lecturer for *Probability with Engineering Applications (313)* in Spring and Fall 2019.
- ECE, UIUC Teaching Assistant for *Probability with Engineering Applications (313)* for 12 times.
- ECE, UIUC Teaching Assistant for *Networking for Big Data (498)*.
- EE, SUT Teaching Assistant for *Numerical Optimization*.
- EE, SUT Teaching Assistant for *Signals and Systems* for three times.

- EE, SUT Head Teaching Assistant for *Communication Systems*.
EE, SUT Teaching Assistant for *Communication Systems*.
EE, SUT Teaching Assistant for *Logic Circuits*.
EE, SUT Teaching Assistant for *Discrete Signal Processing*.
EE, SUT Laboratory Assistant and Grader for *Principles of Electrical Engineering* for three times.

References

- Professor **Rakesh Nagi**, Donald Biggar Willett Professor in Engineering, Industrial and Enterprise Systems Engineering at the University of Illinois at Urbana-Champaign, nagi@illinois.edu.
- Professor **Bruce Hajek**, Leonard C. and Mary Lou Hoeft Endowed Chair in Engineering and Department Head of Electrical and Computer Engineering at the University of Illinois at Urbana-Champaign, b-hajek@illinois.edu.
- Assistant Professor **Ilan Shomorony**, Electrical and Computer Engineering at the University of Illinois at Urbana-Champaign, ilans@illinois.edu.
- Professor **Rayadurgam Srikant**, Fredric G. and Elizabeth H. Nearing Endowed Professor of Electrical and Computer Engineering at the University of Illinois at Urbana-Champaign, rsrikant@illinois.edu.