

Seyyed Mohammadreza Azimi

Address

Center for Wireless Information Processing
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Education

Ph.D. candidate, Electrical Engineering, New Jersey Institute of Technology, USA.
M.S., Electrical Engineering, Isfahan University of Technology, Isfahan, Iran, 2010.
B.S., Electrical Engineering, University of Guilan, Rasht, Iran, 2007.

Research Interests

Information theory and coding
Caching for wireless networks
Cognitive radio networks
Cellular and device-to-device communication
Application of game/queueing theory in communication

Publications

- S. M. Azimi, O. Simeone, A. Sengupta and R. Tandon, "Online Edge Caching in Fog-Aided Wireless Networks", submitted to IEEE International Symposium on Information Theory (ISIT), 2017.
- S. M. Azimi, O. Simeone and R. Tandon, "Fundamental Limits on Latency in Small-Cell Caching Systems: An Information-Theoretic Analysis," in IEEE Global Communication Conference (GLOBECOM), Washington, DC, Dec. 2016.
- S. M. Azimi, O. Simeone, O. Sahin and P. Popovski, "Ultra-reliable cloud mobile computing with service composition and superposition coding," in Annual Conference on Information Science and Systems (CISS), Princeton, NJ, 2016.
- S. M. Azimi, M. H. Manshaei and F. Hendessi, "Cooperative primary-secondary dynamic spectrum leasing game via decentralized bargaining", in Wireless Networks, vol. 22, no. 3, March 2016.
- S. M. Azimi, "Coalitional Games for Determining Rate Region of Multiple Description Coding", in IEEE Communications Letters, vol. 19, no. 1, Jan. 2015.
- S. M. Azimi, M. H. Manshaei and F. Hendessi, "Hybrid cellular and device-to-device communication power control: Nash bargaining game", in 7th International Symposium on Telecommunications (IST), Tehran, Iran, 2014.
- S. M. Azimi "Pareto Optimal Primary-Secondary User Dynamic Spectrum Leasing Game", IET Electronics Letters, vol. 50, no. 12, June 2014.
- S. M. Azimi "Upper Bound on the Average Distortion of Multiple Description Coded Delay-Sensitive Sources", IEEE Communications Letters, vol. 16, no. 4, April 2012

Awards and Fellowships

Hashimoto fellowship for Ph.D. students, 2016-2017

Teaching

- New Jersey Institute of Technology, Newark, USA, 2015-2016
Teacher assistant for Energy conversion, communication systems.
- Sardar Jangal Institute, Rasht, Iran, 2011-2014
Lecturer for Wireless communication networks, Data communication networks.

Computer Skills

C programming, MATLAB, Simulink, Maple, OPNET, L^AT_EX, MS Office

References

- Prof. Osvaldo Simeone, Professor of Electrical Engineering, New Jersey Institute of Technology, USA (Email: osvaldo.simeone@njit.edu)
- Prof. Mohammad hossein Manshaei, Assistant Professor of Electrical Engineering, Isfahan University of Technology, Iran (Email: manshaei@cc.iut.ac.ir)