



Mohsen Hejazi

Assistant Professor

College: Faculty of Electrical and Computer Engineering

Department: Electrical Engineering - Telecommunication

Education

Degree	Graduated in	Major	University
BSc	2007	Electrical Engineering - Communications	Iran University of Science and Technology
MSc	2010	Electrical Engineering - Communication Systems	Iran University of Science and Technology
Ph.D	2016	Electrical Engineering - Communication Systems	Sharif University of Technology

Employment Information

Faculty/Department	Position/Rank	Employment Type	Cooperation Type	Grade
University of Kashan	Assistant Professor	On Contract	Full Time	

Awards

Selected as a distinguished lecturer, Electrical and Computer Engineering Department, University of Kashan, 2019.

Ranked 1st in Class of 2003, B.Sc., Electrical Engineering Department, Iran University of Science and Technology (IUST).

Ranked 1st in Class of 2007, M.Sc., Field of Communications, Electrical Engineering Department, Iran University of Science and Technology (IUST).

Ranked 2nd in Class of 2010, Ph.D., Electrical Engineering Department, Sharif University of Technology. Bronze medal (Ranked 3rd) in National Physics Olympiad.

Ranked 8th in National Electrical Engineering Olympiad.

Identified as an Exceptional Talent in Iran University of Science and Technology (IUST).

Member of the National Elite Foundation.
2 Year Fellowship Award of the National Elite Foundation.

Subjects Taught

Wireless Communication Systems
Advanced Communications Theory
Spread Spectrum Communications
Introduction to Stochastic Processes

Course Topics

Wireless Communications
Fundamentals of Communication Systems
Fundamentals of Electrical Engineering

Papers in Conferences

1. M. Hejazi and B. Abolhassani, "Cyclostationarity-Based Multi-Antenna Cooperative Spectrum Sensing in Cognitive Radio Networks Over Correlated Fading Channels", Iranian Conference on Electrical Engineering (ICEE), pp. 627-632, Mashhad, 2018.
2. M. Hejazi and B. Abolhassani, "Energy detection based spectrum sensing in cognitive radio networks over spatially-correlated channels", IEEE Symposium on Industrial Electronics and Applications (ISIEA), pp. 738-743, Penang, 2010.
3. M. Hejazi and B. Abolhassani, "Adaptive Cooperative Spectrum Sensing in Cognitive Radio Networks", Iranian Conference on Electrical Engineering (ICEE), Tehran, ۲۰۱۱, in Persian.
4. Hamed Zaeri, Mohsen Hejazi, Mohammadreza Zoghi, "User Paring Methods in Cooperative ΔG Systems based on SWIPT, NOMA and Beamforming", Iranian Conference on Electrical Engineering (ICEE ۲۰۲۰), Tabriz, ۲۰۲۰, in Persian.

Papers in Journals

1. S. M. Azimi, Abarghouyi, M. Hejazi, B. Makki, M. Nasiri, Kenari and T. Svensson, "Integer-Forcing Message Recovering in Interference Channels", IEEE Transactions on Vehicular Technology, Vol. 67, No. 5, pp. 4124-4135, May 2018.
2. S. M. Azimi, Abarghouyi, M. Hejazi, B. Makki, M. Nasiri, Kenari and T. Svensson, "Decentralized Compute-and-Forward for Ad Hoc Networks", IEEE Wireless Communications Letters, Vol. 5, No. 6, pp. 652-655, Dec. 2016.
3. S. M. Azimi, Abarghouyi, M. Nasiri, Kenari, B. Maham and M. Hejazi, "Integer Forcing-and-Forward Transceiver Design for MIMO Multipair Two-Way Relaying", IEEE Transactions on Vehicular Technology, Vol. 65, No. 11, pp. 8865-8877, Nov. 2016.
4. M. Hejazi, S. M. Azimi, Abarghouyi, B. Makki, M. Nasiri, Kenari and T. Svensson, "Robust Successive Compute-and-Forward Over Multiuser Multirelay Networks", IEEE Transactions on Vehicular

Technology, Vol. 65, No. 10, pp. 8112-8129, Oct. 2016.

5. S. M. Azimi, Abarghouyi, M. Hejazi and M. Nasiri, Kenari, "Compute-and-forward two-way relaying", IET Communications, Vol. 9, No. 4, pp. 451-459, Mar. 2015.

6. A. Karbalayghareh, M. Nasiri, & Kenari and M. Hejazi, "Convolutional Network-Coded Cooperation in Multi-Source Networks With a Multi-Antenna Relay", IEEE Transactions on Wireless Communications, Vol. 13, No. 8, pp. 4323-4333, Aug. 2014.

7. M. Hejazi and M. Nasiri, & Kenari, "Simplified compute-and-forward and its performance analysis", IET Communications, Vol. 18, No. 7, pp. 2054-2063, Dec. 2013.

8. حامد زائری، محسن حجازی، محمدرضا ذوقی، شکل‌دهی پرتو و تسهیم توان در سیستم‌های نسل پنجم مشارکتی مبتنی بر SWIPT، NOMA ۱۵۷، ۱۳۹۸/۰۹/۲۸، شماره صفحات ۳، مجلد ۳، پردازش سیگنال پیشرفته، و برداشت انرژی خورشیدی، پردازش سیگنال پیشرفته، مجلد ۳، شماره صفحات ۱۵۷، ۱۳۹۸/۰۹/۲۸، NOMA، SWIPT بر