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Yashar Naderahmadian

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Assistant Prof., University of Guilan, Iran

Education

2010–2015 **Ph.D. in Electrical Engineering**, *University of Tabriz*, Iran, GPA=88.45%.
Adaptive overcomplete dictionary learning for sparse representation of signals

2007–2010 **M.Sc. in Electrical Engineering**, *Ferdowsi University of Mashhad*, Iran, GPA=86.6%.
Watermarking in still images based on QR decomposition

2002–2006 **B.Sc. in Electrical Engineering**, *University of Tabriz*, Iran, GPA=78.5%.
Speech Recognition Using Hidden Markov Models

* All Specialized in Telecommunications, Systems

Honors, Scholarship, and Awards

2014 Ph.D. scholarship, Vice-presidency for science and technology of Iran presidency
2013 Visiting research scholarship, Ministry of science, research and technology of Iran
2013 Visiting research scholarship, Toronto Metropolitan University, Toronto, Canada
2010 Ranked 2nd in Ph.D. admission test, University of Tabriz
2010 Ranked 3rd in graduating class of M.Sc. students majoring in Telecommunications
2006 Ranked 3rd in graduating class of B.Sc. students majoring in Telecommunications
2006 Awarded for 3rd rank holder in graduating class in B.Sc.

Work Experiences

2019–now **Assistant Professor**, *University of Guilan*, Rasht, Iran.
2014–2015 **Visiting researcher**, *Toronto Metropolitan University*, Toronto, Canada.
2011–2016 **Visiting Lecturer**, *Islamic Azad University*, Maragheh, Iran.
2011–2016 **Visiting Lecturer**, *Payame Noor University*, Maragheh, Iran.
Courses Signals & sytems, Analog communications systems, Electric circuits theory I, Electric circuits Lab I, AVR Micro-controller programming, Adaptive Filters, Signal Detection Theory

Professional Trainings

2019 *Deep Learning Specialization*, Stanford University (Online course)
2019 *Machine Learning Specialization*, Stanford University (Online course)
2007 *GSM Signaling*, Hamrahe Aval & Ferdowsi University, Iran
2007 *Principles of Mobile Communications*, Hamrahe Aval & Ferdowsi University, Iran
2006 *Internship in Telecommunications Co.*, Maragheh, Iran

Computer and programming skills

OS (Microsoft windows, Ubuntu), Office (Microsoft Office, LaTeX, Mendeley)
Programming (MATLAB, C++, Python, BASCOM(AVR))

Languages

English (Fluent, TOEFL (92)), Persian (Native), Turkish (Native)

Research Interests

Dictionary Learning, Sparse Representation, Convex Optimization, Signal Processing
Machine Learning, Deep Learning, Pattern Recognition, Watermarking

Memberships

IEEE Student Member'14, IEEE Member'16

Academic servisec (Reviewer/Scientific committee member)

Jounal: IEEE Transactions on Multimedia, Elsevier Signal Processing, SAGE Transactions of the Institute of Measurement and Control, Journal of Advanced Signal Processing (JASP)

Conference: International ISC conference on Information Security and Cryptology (ISCISC'11), Iran
International Online Engineering and Natural Sciences Conference (IOCENS'21), Turkey

Academic links (clickable)

Publons (Verified review activities)
Google scholar

Publications

Y. Naderahmadian, S. Beheshti, and M. A. Tinati, "Correlation based online dictionary learning algorithm," *IEEE Transactions on Signal Processing*, vol. 64, no. 3, pp. 592–602, 2016.

Y. Naderahmadian, M. A. Tinati, and S. Beheshti, "Generalized adaptive weighted recursive least squares dictionary learning," *Elsevier Signal Processing*, vol. 118, pp. 89–96, 2016.

Y. Naderahmadian and S. Beheshti, "Generalized adaptive weighted recursive least squares dictionary learning for retinal vessel inpainting," in *IEEE Statistical Signal Processing Workshop (SSP)*, 2018, pp. 40–44.

S. Zhang, M. J. Er, B. Zhang, and Y. Naderahmadian, "A novel heuristic algorithm for node localization in anisotropic wireless sensor networks with holes," *Elsevier Signal Processing*, vol. 138, pp. 27–34, 2017.

Y. Naderahmadian and S. Beheshti, "A realistic attack on svd based watermarking scheme," in *IEEE 28th Canadian Conference on Electrical and Computer Engineering (CCECE)*, 2015, pp. 1238–1242.

Y. Naderahmadian and S. Beheshti, "Robustness of wavelet domain watermarking against scaling attack," in *IEEE 28th Canadian Conference on Electrical and Computer Engineering (CCECE)*, 2015, pp. 1218–1222.

Y. Naderahmadian and S. Hosseini-Khayat, "Fast and robust watermarking in still images based on qr decomposition," *Multimedia Tools and Applications*, vol. 72, no. 3, pp. 2597–2618, 2014.

Y. Naderahmadian and S. Hosseini-Khayat, "Fast watermarking based on qr decomposition in wavelet domain," in *Sixth International Conference on Intelligent Information Hiding and Multimedia Signal Processing (IIH-MSP)*, 2010, pp. 127–130.