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Education:

Ph. D. [Queensland University of Technology](#), Brisbane, Australia, 2004, Thesis title: "Time-Frequency Based Detection of Newborn EEG Seizure".

M. Sc. [Amirkabir University of Technology](#), Tehran, Iran, 1996, Thesis title: "Designing an Automatic Farsi Syntax Analyser".

B. Sc. [Iran University of Science and Technology](#), Tehran, Iran, 1993, Project title: "Designing a 24-bit Microprocessor Using Microprogramming".

Academic Experience:

- Full Professor, Faculty of Computer Engineering, Shahrood University of Technology, Shahrood, Iran, since 2012.
- Associate Professor, Faculty of Computer, Shahrood University of Technology, Shahrood, Iran, 2008-2012.
- Assistant Professor, Computer Engineering, Department of Electrical Engineering, University of Mazandaran, Babol, Iran, 2004-2008.
- Visiting Professor, Faculty of Built Environment and Engineering, Queensland University of Technology, Australia, July – September 2009.
- Editor-in-Chief, **Journal of AI and Data Mining**, Shahrood University of Technology, Iran, Since 2012.
- Member, Editorial Board, **International Journal of Engineering**, Iran, Since 2011.
- Member, Editorial Board, **Iranica Journal of Energy & Environment**, Iran, Since 2010.
- Member, Permanent Committee, International Conference on Signal Processing and Intelligent Systems (ICSPIS).
- Technical Chair, The 6th Conference on Information and Knowledge Technology, Shahrood, Iran, 2014.

- Technical Chair, The first International Conference on Signal Processing and Intelligent Systems (ICSPIS), Amir Kabir University of Technology, Tehran, Iran, 2015.
- Technical Chair, The Second International Conference on Signal Processing and Intelligent Systems (ICSPIS), Amir Kabir University of Technology, Tehran, Iran, 2016.
- Chair, The Third Iranian Conference on Signal Processing and Intelligent Systems (ICSPIS), Shahrood University of Technology, Shahrood, Iran, 2017.
- Member, Executive Director, Journal of Advances in Computer Research, Since 2010.
- Technical member for the Fifth Australian Workshop on Signal Processing (WoSPA'02), Australia, 2002.
- Research Assistant: School of Electrical and Electronic Systems Engineering, Queensland University of Technology, Brisbane, Australia, 2003-2005.
- Teaching Assistant: Faculty of Information Technology, Queensland University of Technology, Brisbane, Australia, 2000-2004.
- Lecturer: Department of Computer Engineering, Azad University, Sari, Iran, 1996-2000.

Technical Areas of Interest:

- Data Mining, Text Processing
- Image Processing, Video Analysis
- Biomedical Signal Processing
- Time-Frequency Signal Processing and Analysis
- Machine Learning, Deep Learning

Academic Positions:

- Vice Chancellor in Research & Technology, Shahrood University of Technology, Shahrood, Iran, July 2022- present.
- Head, Virtual Learning Center, Shahrood University of Technology, Shahrood, Iran, July 2020- July 2022.
- Dean, Faculty of Computer Engineering & IT, Shahrood University of Technology, Shahrood, Iran, 2010- April 2017.
- Director, Computer Laboratory, Department of Computer & Electrical Engineering, Babol University of Technology, Babol, Iran, 2006 – 2008.
- Dean of Computing, Babol University of Technology, 2006-2009.
- Member, Research Committee, Iran Telecommunication, Mazandaran, 2006-2008.
- Member, ICT Promotion Board, Semnan Science & Technology Park, Semnan, Iran, 2005-2006.

Honors and Awards:

- Distinguished Professor of the Year in Research, Faculty of Computer Engineering & IT, Shahrood University of Technology , Shahrood, Iran, 2009~2021, 2022~2023.
- Distinguished Professor of the Year, Semnan Province, Iran, 2017.
- Distinguished as the Celebrated Research Scientist in the Province of Mazandaran, Iran, 2008

- Distinguished Professor of the Year in Research, Department of Computer & Electrical Engineering, Babol University of Technology, Babol, Iran, 2006-2007.

Courses Taught:

❖ Undergraduate

- Assembly Language Programming
- Computer Architecture
- Data Structure
- Information Storage and Retrieval
- Signal & System

❖ Postgraduate

- Digital Signal Processing
- Advanced Digital Signal Processing
- Random Process
- Advanced Microprocessor
- Neural Networks
- Machine Learning
- Data Mining
- Digital Image Processing
- Advanced Digital Image Processing

Patent:

B. Zehtabian, H. Hassanpour, and A. Zehtabian, “Versatile Data Emulator”, *I.R. Iran National Patent 71353*, September 2011.

H. Hassanpour, and S. Asadi, “Image Enhancement Using Gamma Correction”, *I.R. Iran National Patent 78949*, March 2013.

Publication:

Books and Book Chapters

[11] H. Hassanpour and M. M. AlyanNejadi, “Signals and Systems”, Shahrood University of Technology, 2016. (ISBN) (in Persian)

[10] H. Hassanpour and S. Asadi Amiri, *Comprehensive Concepts in Digital Image Processing: With the implementation of the algorithms using MATLAB*, Shahrood University of Technology, 2016. (ISBN 978-600-7153-40-6) (in Persian)

[9] H. Hassanpour and B. Boashash, “Subspace Noise Filtering Using Time-Frequency Distributions”, in: B. Boashash (Ed.), *Time-Frequency Signal Analysis and Processing: A Comprehensive Reference*, Second Ed., Elsevier, Oxford, 2015, pp. 670-678 (Chapter 11, Article 11.5)

[8] H. Hassanpour and M. Yadollahzadeh, *Data Mining Using Weka*, Shahrood University of Technology, 2015. (in Persian)

[7] M. Ghasemzadeh, H. Hassanpour and M.R. Meybodi, *Formal Languages and Automata*, Shahrood University of Technology Shahrood, Iran, 2013. (*Translation to Persian*)

- [6] A. Zehtabian, H. Hassanpour , S. Zehtabian, "Singular Vector Based Approaches for Speech Enhancement" in *Signal Processing: New Research (Engineering Tools, Techniques and Tables)*, Nove Publisher, New York, 2013. (ISBN 978-162-8081-41-1)
- [5] H. Hassanpour and H. Bozorgian, *Specialized English for Computer Engineering*, Shahrood University of Technology, 2013. (ISBN 978-964-7668-95-8)
- [4] H. Hassanpour , H. Yousefian, and A. Zehtabian, "Pixion-Based Image Segmentation" in *Image Segmentation*, Intech pen Access Publisher, 2011. (ISBN 978-953-307-228-9)
- [3] H. Hassanpour , *Newborn EEG Seizure Detection*, Lambert Academic Publishing, 2009.
- [2] H. Hassanpour and M. Mansoori , *Internet and The advanced techniques for Information Retrieval* , Mazandaran Institute of Technology, 2008.
- [1] H. Hassanpour , *Easy Learning Assembly Language Programming* , Shelfein, Sari, 2005.

Journal Papers

- [190] E. Khoshnevisan, H. Hassanpour, M.M. AlyanNejadi "Face recognition based on general structure and angular face elements", *Multimedia Tools and Applications, Springer. (accepted)*
- [189] M. Balouchzahi Shahbakhsh and H. Hassanpour "Edge-attention network for preserving structure in face super-resolution", *Multimedia Tools and Applications, Springer, 2024*. DOI: 10.1007/s11042-024-18760-5
- [188] J. Naseri, H. Hassanpour, A. Ghanbari "Accelerating Legislation Processes through Semantic Similarity Analysis with BERT-based Deep Learning", *International Journal of Engineering - Transaction C: Aspects*, Vol. 37, No. 6, pp. 1050-1058, 2024. (DOI: [10.5829/ije.2024.37.06c.01](https://doi.org/10.5829/ije.2024.37.06c.01))
- [187] M. Ghasemi and H. Hassanpour "FRIH: A Face Recognition Framework Using Image Hashing", *Multimedia Tools and Applications, Springer, 2024* . (DOI: 10.1007/s11042-023-18007-9)
- [186] A.M. Nourollah, H. Hassanpour, A. Zehtabian "Quantifying Morphologies of Developing Neuronal Cells using Deep Learning with Imperfect Annotations ", *IBRO Neuroscience Reports, Vol 16, pp 118-126, 2024* . (DOI: 10.1016/j.ibneur.2023.12.009)
- [185] Soroush Hashemifar, Abdolreza Marefat, Javad Hassannataj Joloudari, Hamid Hassanpour, "Enhancing face recognition with latent space data augmentation and facial posture reconstruction", *Expert Systems with Applications, vol 238, 2024*. (DOI: [/10.1016/j.eswa.2023.122266](https://doi.org/10.1016/j.eswa.2023.122266))

- [184] Z. Mortezaei, H. Hassanpour, and A. Beghdadi “Re-Identification in Video Surveillance Systems Considering Appearance Changes”, *Scientia Iranica*, Vol 31, No 2, pp. 103-117, 2024. (DOI: [10.24200/sci.2023.57617.5331](https://doi.org/10.24200/sci.2023.57617.5331))
- [183] B. Delagah and H. Hassanpour, “Feature Extraction for Polyp Detection in Wireless Capsule Endoscopy Video Frames”, *Journal of Healthcare Engineering, Hindawi*, Vol. 2023. (DOI: [10.1155/2023/6076514](https://doi.org/10.1155/2023/6076514))
- [182] P. Soltani, A. Roshandel Kahoo, and H. Hassanpour, “Proposing new seismic texture attributes based on novel gray level matrix with application to salt dome detection”, *JOURNAL OF APPLIED GEOPHYSICS, Elsevier*, vol 218, pp 54-63, 2023. (doi: [10.1016/j.jappgeo.2023.105214](https://doi.org/10.1016/j.jappgeo.2023.105214))
- [181] M. Sadjadi, H. Mashayekhi and H. Hassanpour, “A semi-supervised framework for concept-based hierarchical document clustering”, *World Wide Web, Springer*, 2023. (DOI: [10.1007/s11280-023-01209-4](https://doi.org/10.1007/s11280-023-01209-4))
- [180] Z. Amiri, H. Hassanpour and A. Beghdadi, “Combining Deep Features and Hand-crafted Features for Abnormality Detection in WCE Images”, *Multimedia Tools and Applications, Springer*, vol 2023. (DOI: [10.1007/s11042-023-15198-z](https://doi.org/10.1007/s11042-023-15198-z))
- [179] E. Charoqdouz and H. Hassanpour, “Feature Extraction from Several Angular Faces Using a Deep Learning Based Fusion Technique for Face Recognition”, *International Journal of Engineering - Transaction B: Applications*, Vol. 36, No. 8, pp. 1548-1555, 2023. (DOI: [10.5829/IJE.2023.36.08B.14](https://doi.org/10.5829/IJE.2023.36.08B.14))
- [178] A. Yavari and H. Hassanpour, “Election Prediction Based on Messages Feature Analysis in Twitter Social Network”, *International Journal of Engineering - Transaction C: Aspects*, Vol. 36, No. 6, pp. 1179-1184, 2023. (DOI: [10.5829/ije.2023.36.06c.16](https://doi.org/10.5829/ije.2023.36.06c.16))
- [177] E. Bidokh and H. Hassanpour, “Enhancing Wireless Capsule Endoscopy images from intense illumination specular reflections using the homomorphic filter”, *Biomedical Signal Processing and Control*, Vol 84, No 6, 2023. (DOI: [10.1016/j.bspc.2023.104723](https://doi.org/10.1016/j.bspc.2023.104723))
- [176] Z. Amiri, H. Hassanpour and A. Beghdadi, “Abnormalities Detection in Wireless Capsule Endoscopy Images using EM Algorithm”, *The Visual Computer*, Vol 39, No 7, pp. 2999–3010, 2023. (DOI: [10.1007/s00371-022-02507-0](https://doi.org/10.1007/s00371-022-02507-0))
- [175] Z. Mortezaei and H. Hassanpour, S. Asadi, “An Adaptive Un-Sharp Masking Method for Contrast Enhancement in Images with Non-uniform Blur”, *Majlesi Journal of Electrical Engineering*, Vol. 16, No 4, pp. 139-149, 2022. (doi: [10.30486/mjee.2022.697549](https://doi.org/10.30486/mjee.2022.697549))
- [174] Z. Mortezaei, H. Hassanpour, and A. Beghdadi “Sensing Image Regions for Enhancing Accuracy in People Re-identification”, *Iranian Journal of Energy and Environment (IJEE)*, Vol. 13, No 3, p. 295-304, 2022. (doi: [10.5829/IJEE.2022.13.03.09](https://doi.org/10.5829/IJEE.2022.13.03.09))
- [173] M. H. Khosravi and H. Hassanpour, “A New Paradigm for Image Quality Assessment Based on Human Abstract Layers of Quality Perception”, *Multimedia Tools and Applications*, Vol. 81, pp. 23193–23215, 2022. (doi: [10.1007/s11042-022-12478-y](https://doi.org/10.1007/s11042-022-12478-y))

- [172] Z. Amiri, H. Hassanpour and A. Beghdadi, "An Expanded MLP Neural Network for Fast Angiodysplasia Lesions Segmentation in Capsule Endoscopy Images", *International Journal of Artificial Intelligence and Tools*, Vol 31, No 2, 2022. (DOI: [10.1142/S0218213022500063](https://doi.org/10.1142/S0218213022500063))
- [171] M. B. Shahbakhsh and H. Hassanpour, "Empowering Face Recognition Methods using a GAN-based Single Image Super-Resolution Network", *International Journal of Engineering - Transaction A: Basics*, Vol. 35, No. 10, pp. 1858-1866, 2022.. (DOI: [10.5829/ije.2022.35.10a.05](https://doi.org/10.5829/ije.2022.35.10a.05))
- [170] Z. Mortezaei and H. Hassanpour, A. Beghdadi, "A Survey on People Re-identification Approaches Considering Occlusion", *Majlesi Journal of Electrical Engineering*, Vol. 16, No 3, pp. 9-18, 2022. (doi: [10.30486/mjee.2022.696501](https://doi.org/10.30486/mjee.2022.696501))
- [169] N. Abbaspoor and H. Hassanpour, "Face Recognition In A Large Dataset Using A Hierarchical Classifier", *Multimedia Tools and Applications*, Vol 81, pp. 16477–16495, 2022. (doi: [10.1007/s11042-022-12382-5](https://doi.org/10.1007/s11042-022-12382-5))
- [168] A. Yavari; H. Hassanpour; B. Rahimpour Cami; M. Mahdavi, "Event prediction in social network through Twitter messages analysis", *Social Network Analysis and Mining*, Vol 12, pp. 1-12, 2022. (DOI: [10.1007/s13278-022-00911-x](https://doi.org/10.1007/s13278-022-00911-x))
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- [166] A. Yavari; H. Hassanpour; B. Rahimpour Cami; M. Mahdavi, "Election Prediction Based on Sentiment Analysis using Twitter Data", *International Journal of Engineering - Transaction B: Applications*, Vol 35, No 2, pp. 372-379, 2022. (DOI: [10.5829/ije.2022.35.02b.13](https://doi.org/10.5829/ije.2022.35.02b.13))
- [165] Z. Amiri, H. Hassanpour, A. Beghdadi, "Feature extraction for abnormality detection in capsule endoscopy images", *Biomedical Signal Processing and Control*, Vol 71, 2022. (DOI: [10.1016/j.bspc.2021.103219](https://doi.org/10.1016/j.bspc.2021.103219))
- [164] P. Erfanian, B. Rahimpour, and H. Hassanpour, "An evolutionary event detection model using the Matrix Decomposition Oriented Dirichlet Process ", *Expert Systems with Applications*, Vol 189, 2022. (DOI: [10.1016/j.eswa.2021.116086](https://doi.org/10.1016/j.eswa.2021.116086))
- [163] Z. Amiri, H. Hassanpour, A. Beghdadi, "A Computer-Aided Method for Digestive System Abnormality Detection in WCE Images", *Journal of Healthcare Engineering*, 2021. (DOI: [10.1155/2021/7863113](https://doi.org/10.1155/2021/7863113))
- [162] M.Ghasemi, and H. Hassanpour, "A Three-stage Filtering Approach for Face Recognition ", *International Journal of Engineering - Transaction B: Applications*, Vol 34, No 8, 2021. (DOI: [10.5829/ije.2021.34.08b.06](https://doi.org/10.5829/ije.2021.34.08b.06))
- [161] T. Askari, and H. Hassanpour, "Using a Blur Metric to Estimate Linear Motion Blur Parameters", *Computational and Mathematical Methods in Medicine*, 2021. (DOI: [10.1155/2021/6048137](https://doi.org/10.1155/2021/6048137))
- [160] S. M. Sadjadi, H. Mashayekhi, and H. Hassanpour, "A Two-Level Semi-supervised Clustering Technique for News Articles", *International Journal of Engineering - Transaction C: Aspects*, Vol 34, No 12, 2021. (DOI: [10.5829/ije.2021.34.12C.10](https://doi.org/10.5829/ije.2021.34.12C.10))

- [159] H. Hassanpour, M. M. AlyanNezhadi, M. Mohammadi, "A Signal Processing Method for Text Language Identification", *International Journal of Engineering - Transaction C: Aspects*, Vol 34, No 6, 2021. (DOI: 10.5829/ije.2021.34.06c.04)
- [158] S.M.R Hashemi, H. Hassanpour, E. Kozegar, T., Tan, "Cystoscopic image classification by unsupervised feature learning and fusion of classifiers", *IEEE ACCESS*, Vol 9, PP.126610-126622, 2021. (DOI: 10.1109/ACCESS.2021.3098510)
- [157] S. Akhlaghi and H. Hassanpour, "Frontal Face Modeling Using Morphing-Based Averaging and Low-rank Decomposition", *Multimedia Tools and Applications, Springer*, Vol 80, pp. 7125–7144, 2021. (DOI: 10.1007/s11042-020-09878-3)
- [156] R. Badaghi, H. Hassanpour, T. Askari, "Detection of Bikers without Helmet Using Image Texture and Shape Analysis", *International Journal of Engineering - Transaction C: Aspects*, Vol 34, No 3, 2021. (DOI: 10.5829/ije.2021.34.03c.09)
- [155] M. Habibi and H. Hassanpour, "Splicing Image Forgery Detection and Localization Based on Color Edge Inconsistency using Statistical Dispersion Measures", *International Journal of Engineering, Transaction A: Basics*, Vol 34, No. 2, pp. 443-451 , 2021. DOI: [10.5829/ije.2021.34.02b.16](https://doi.org/10.5829/ije.2021.34.02b.16)
- [154] F. Nikan and H. Hassanpour, "Face Recognition Using Non-negative Matrix Factorization with a Single Sample per Person in a Large Database", *Multimedia Tools and Applications, Springer*, Vol 79, pp. 28265–28276, 2020. (DOI: 10.1007/s11042-020-09394-4)
- [153] M. Parsaeian, M. Shahabi, and H. Hassanpour, "Estimating Oil and Protein Content of Sesame Seeds Using Image Processing and Artificial Neural Network", *Journal of the American Oil Chemist's Society*, Vol 97, No 7, pp. 691-702, 2020, DOI: 10.1002/aocs.12356
- [152] S.J. Seyyed Yazdi and H. Hassanpour, "Super resolution of defocus images", *International Journal of Engineering, Transaction A: Basics*, Vol 33, No. 4, pp. 539-545, 2020. DOI: 10.5829/ije.2020.33.04a.04
- [151] M. Parsaeian, M. Shahabi, and H. Hassanpour, "The integration of image processing and artificial neural network to estimate four fatty acid contents of sesame oil", *The LWT - Food Science and Technology*, Vol 129, pp 1-10, 2020, DOI: j.lwt.2020.109476.
- [150] Mokhtar Mohammadi, Nabeel Ali Khan, Hamid Hassanpour & Adil Hussien Mohammed, "Spike Detection Based on the Adaptive Time–Frequency Analysis", *Circuits, Systems, and Signal Processing* , Vol 39, pp. 5656–5680, 2020. DOI: 10.1007/s00034-020-01427-5.
- [149] M. Delavarian, O. R. Marouzi, Hamid Hassanpour, R. M. Parizi, M. S. Khan, "Multi-camera multiple vehicle tracking in urban intersections based on multilayer graphs", *IET Intelligent Transport Systems*, Vol 14, No 12, pp. 1673 – 1690, 2020. DOI: [10.1049/iet-its.2020.0086](https://doi.org/10.1049/iet-its.2020.0086)

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- [147] A. Ghanbari, H. Hassanpour, and M. Fateh, “A Comprehensive System for Image Scene Classification”, *Multimedia Tools and Applications*, Springer, Vol 79, pp. 18033–18058, 2020. (DOI:10.1007/s11042-019-08264-y)
- [146] M. H. Khosravi and H. Hassanpour “Blind Quality Metric for Contrast-Distorted Images Based on Eigen-decomposition of Color Histograms”, *IEEE Transactions on Circuits and Systems for Video Technology*, Vol 30, No 1, pp. 48-58, 2020. DOI: 10.1109/TCSVT.2018.2890457
- [145] E. Alipour, H. Hassanpour, M. Fateh “Blur Classification in Images with Global Blur”, *Journal of Machine Vision and Image Processing*, Vol. 6, No. 2, pp. 105-118, 2020. (in Persian)
- [144] A. Ghanbari, H. Hassanpour, M. Fateh, “Improvement of the R-FCN's deep network in object detection and annotation”, *Journal of Machine Vision and Image Processing*, Vol. 6, No. 2, pp. 43-52, 2020. (in Persian)
- [143] M. M. Aliannejadi, H. Hassanpour, and F. Zare, “Grid Impedance Estimation in High Frequency Range with a Single Signal Injection Using Time-Frequency Distribution”, *IET Science, Measurement & Technology*, Vol 13, no 7, 2019. (DOI: [10.1049/iet-smt.2018.5617](https://doi.org/10.1049/iet-smt.2018.5617))
- [142] Z. Mortezaei, and H. Hassanpour, “A SURVEY ON AGE INVARIANT FACE RECOGNITION METHODS”, *Jordanian Journal of Computers and Information Technology*, Vol 5, No 2, pp. 87-96, 2019. (DOI: [10.5455/jjeit.71-1554841475](https://doi.org/10.5455/jjeit.71-1554841475))
- [141] Z. Mortezaei, H. Hassanpour, and S. Asadi, “An Adaptive Block Based Un-Sharp Masking for Image Quality Enhancement”, *Multimedia Tools and Applications*, Springer, Vol 78, No 16, pp. 23521–23534 , 2019. (DOI: 10.1007/s11042-019-7594-4)
- [140] M.M. Hosseini, M. Zahedi, and H. Hassanpour, “A Set Statistical features for Evaluating Interactive Question Answering”, *Tabriz Journal of Electrical Engineering*, Vol 49, No 3, pp. 1045-1054, 2019. (in Persian)
- [139] H. Yarmohammadi, H. Marvi, and H. Hassanpour, “Application of 2D fractal dimension in content based video summarization”, *International Journal of Nonlinear Analysis and Applications*, Vol 10, No 2, pp. 131-140, 2019. (DOI: /10.22075/ijnaa.2019.4180)
- [138] I. Firouzian, M. Zahedi, and H. Hassanpour, “Investigation of the Effect of Concept Drift on Data-Aware Remaining Time Prediction of Business Processes”, *International Journal of Nonlinear Analysis and Applications*, Vol 10, No 2, pp. 153-166, 2019. (DOI: 10.22075/IJNAA.2019.4182)
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- [134] M. H. Khosravi and H. Hassanpour "Image Quality Assessment Using a Novel Region Smoothness Measure", *Journal of Visual Communication and Image Representation*, Vol. 60, pp. 217-228, 2019. (doi: [10.1016/j.jvcir.2018.11.019](https://doi.org/10.1016/j.jvcir.2018.11.019))
- [133] H. Hassanpour, F. Azari, S. Asadi, "Adaptive Image Dehazing via Improving Dark Channel Prior", *International Journal of Engineering – Transactions B: Applications*, Vol. 32, No 2, pp. 247-253, 2019.
- [132] S. Asadi and H. Hassanpour , "A Saliency Detection Model via Fusing Extracted Low-level and High-level Features from an Image", *AUT Journal of Electrical Engineering*, Vol. 51, No 1, pp 1-10, 2019. (DOI: [10.22060/ej.2018.13787.5189](https://doi.org/10.22060/ej.2018.13787.5189))
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- [129] M. M. Aliannejadi, H. Hassanpour, and F. Zare, "Using Signal Processing Techniques for Low Voltage Grid Impedance Estimation in Frequencies 2 kHz to 150 kHz", *Iranian Journal of Electrical and Computer Engineering*, Vol 16, No 2, PP. 157-163, 2018. (in Persian)
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- [126] H. Hassanpour and S. Asadi , "Improving Image Dynamic Range For An Adaptive Quality Enhancement Using Gamma Correction", *The CSI Journal on Computer Science and Engineering (JCSE)*; Vol. 16, No. 1, pp. 32-44, 2018.
- [125] H. Hassanpour, N. Nowrozian, M.M. AlyanNejadi, and N. Samadiani, "Image Zooming Using a Multi-layer Neural Network", *The Computer Journal*. Vol. 61, No 11, pp. 1737–1748, 2018. (<https://doi.org/10.1093/comjnl/bxy092>)
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