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Tarbiat Modares University
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Areas of Expertise and Interest

AI Application in Image and Signal Analysis and Classification

Multi-Source Image Analysis: (Image and Information Fusion)

Pattern Recognition

Remote Sensing System Engineering: (Hyperspectral Image Analyses)

Biomedical Signal and Image Processing

Degrees

PhD: 1985-1988: School of Electrical and Computer Engineering, Purdue University, West Lafayette, Indiana, USA



**ELECTRICAL AND
COMPUTER ENGINEERING
PURDUE UNIVERSITY**

MS: 1983-1984: School of Electrical and Computer Engineering, Purdue University, West Lafayette, Indiana, USA



**ELECTRICAL AND
COMPUTER ENGINEERING
PURDUE UNIVERSITY**

BS: 1975-1980: Telecommunication College, Tehran, Iran.



Employment and Experience

October 1988 – Present: Professor of Electrical and Computer Engineering and Member of Graduate Committee, at Tarbiat Modares University (TMU), Tehran, Iran.

Taught Graduate courses including:

**Image Processing and Analysis,
Advanced Digital Signal Processing and Analysis,
Remote Sensing Engineering,
Stochastic Pattern Recognition and Scene Analysis,
Biomedical Signal Processing and Interpretation,
Vision in Man and Machine,**

Actively participated in curriculum development and preparing course materials in those areas.
Supervisor of more than 140 MS EE Thesis, and 45 PhD EE Dissertations.

September 2013– September 2014: Dean of Faculty of Electrical and Computer Engineering at TMU, Tehran, Iran.

April 2011 – September 2013: Chairman of Communication Engineering Graduate Committee at TMU, Tehran, Iran.

January 2001 - May 2003: Chairman of Communication Engineering Graduate Committee at TMU, Tehran, Iran.

December 1998- December 1999: Member of the Board of Directors, Iranian Remote Sensing Center (IRSC). Tehran, Iran.

October 1997 - October 1998: Sabbatical Leave at University of Toronto as an Associate Professor in Digital Image Processing Lab, Dept. of Electrical Engineering, Toronto, Canada.

September 1994 - September 1997: Chairman of Biomedical Engineering Graduate Committee at TMU, Tehran, Iran.

June 1990 - June 1993: Chairman of Communication Engineering Graduate Committee at TMU, Tehran, Iran.

May 1989 - November 1990: Chairman and Chief Executive Officer of Programming Committee for Doctoral Education in Electrical Engineering at TMU.

December 1998- Present: Director and Head of Image Processing and Information Analysis Laboratory Tarbiat Modares University, Tehran, Iran.

Conducting research on Hyperspectral Image Analysis.

Conducting research on Multi-Source Image Processing and Analysis.

Conducting research on Multi-Source Information and Data Fusion.

Conducting research on Space-borne Multi-Spectral Sensor Selection and Design.

Conducting research on ECG and PSG Signal Processing and Analysis.

June 1992- October 1997: Research Associate at Research Center of Intelligent Signals Processing (RCISP). Tehran, Iran.

Conducting research on EEG Signal Analysis.

Conducting research on EEG/EP Brain Mapping.

Conducting research on Automatic Fingerprint Identification.

Conducting research on Modern Spectral Estimation.

October 1988 - May 1992: Research Associate at Iranian Telecommunication Research Center (ITRC). Tehran, Iran.

Conducting research on Multi Media and Videoconference.

Conducting research on Data Communication and STATDM.

Conducting research on Image Compression.
Conducting research on Image Processing and Analysis.

December 1985 - August 1988: [Research Assistant at Purdue's Laboratory for Application of Remote Sensing \(LARS\), West Lafayette, Indiana, USA.](#)

Performed research in Multispectral Image Analysis.

December 1983 - December 1985: [Teaching Assistant in Electrical Engineering School at Purdue University, West Lafayette, Indiana, USA.](#)

"Random Signal Processing" and "Digital Control" courses.

June 1980 - May 1983: [Research Assistant at Iranian Telecommunication Research Center \(ITRC\). Tehran, Iran.](#)

Performed Research in Systems Engineering and Circuit Analysis.

Developed Speech -Plus System (Multiplexing Voice and Data, 1981).

Design and Development of a new Electronic Switching System.

Design and Development of Bilingual, Persian/Latin Computer.

Honors and Awards

Awarded the Distinguished Scientist & Lecturer Honoree in the 4th Prof. Ghandi National ICT Festival (May 2015 by the Minister of ICT).

Awarded the Distinguished Scientist Honoree in the 9th Alkharazmi International Festival (Feb. 1996 by the President of IRAN).

Awarded the IEEE 2018's Outstanding and Lifetime Contribution to Research in Communications Engineering Honoree at IEEE Iran Section (May 2018).

Awarded the 2020's Outstanding Researcher Honoree at TMU (Dec. 2021).

Awarded the 2016's Outstanding Professor Honoree at TMU (May 2017).

Awarded the 2014's Iranian Outstanding Professor Candidate (May 2015).

Awarded the 2010's Iranian Outstanding Professor Candidate (May 2011).

Awarded the 2005's Outstanding Professor Honoree at TMU (May 2006).

Awarded the 1996's Outstanding Researcher Honoree at TMU (May 1997).

Awarded the 1995's Outstanding Professor Honoree at TMU (May 1996).

Awarded the Graduate Scholarships (1983-1988).

Awarded the Distinguished Student Honoree in Electrical Engineering (highest GPA 3.94/4.00 on June 1980).

IEEE Senior member of Signal Processing Society.

IEEE Senior member of Geoscience and Remote Sensing Society.

IEEE Senior member of Engineering in Medicine and Biology Society.

Senior member of Iranian Computer Society.

Senior member of Iranian Electrical Engineering Society.

Senior member of Iranian Machine Vision and Image Processing Society.

Technical Reports

- 1- Hassan Ghassemian and David Landgrebe, "**On-Line Object Feature Extraction for Multispectral Scene Representation**," [NASA NAGW-925](#), TR-EE 88-34, Aug.1988.
- 2- Shahram Moein and Hassan Ghassemian, "**Optimal Halftoning and On-Line Compression of Documents in Facsimile**" Iranian Telecommunication Research Center Technical Reports, Jan. 1990.
- 3- Behroz Nikpoor and Hassan Ghassemian, "**A Hardware Design for a Video Conferencing System**" Iranian Telecommunication Research Center Technical Reports, Oct. 1991.
- 4- Masood Moghadasian and Hassan Ghassemian, "**A 46 Channel Data STAT-Multiplexer Design for a Multi-Media System**" Iranian Telecommunication Research Center Technical Reports, Dec. 1991.
- 5- Mahmud Khaleghi and Hassan Ghassemian, "**A Protocol Design for Video Conferencing Networks**" Iranian Telecommunication Research Center Technical Reports, Dec. 1993.
- 6- Mehdi Azadfar and Hassan Ghassemian, "**A Hardware Design for on-line Image Processing**" Iranian Telecommunication Research Center Technical Reports, Oct. 1994.
- 7- Hassan Ghassemian, "**Automatic Fingerprint Classification**" Tarbiat Modares University Technical Reports, 1995.
- 8- Hassan Ghassemian, "**Real Time Ink-less Fingerprint Scanner and Digitizer**" Tarbiat Modares University Technical Reports, 1996.
- 9- Hassan Ghassemian, "**Design of PC Based Brain Mapping System**" Tarbiat Modares University Technical Reports, May 1997.
- 10- Hassan Ghassemian, "**Nonuniform Sampling and Multiscale Image Analysis**" Report of Sabbatical Leave at University of Toronto, TMU-TR 1998.
- 11- Mohamad Azami and Hassan Ghassemian, "**Improving the Multispectral Image Fusion Techniques in Remote Sensing**" TMU & Iranian Telecommunication Research Center Technical Reports, July 2002.
- 12- Babak Afsharipoor and Hassan Ghassemian, "**ECG Feature Extraction and Compression for Telemedicine Applications**" TMU & ITRC Technical Reports, Dec. 2003.
- 13- Hossein Poorghasem and Hassan Ghassemian, "**Fingerprint Classification Using Neural Networks**" TMU & ITRC Technical Reports, July. 2004.
- 14- Ahmad Keshavarz and Hassan Ghassemian, "**Hyperspectral Image Classification with a Limited Training Samples**" TMU & ITRC Technical Reports, July. 2004.
- 15- Alireza Pakdaman and Hassan Ghassemian, "**Fault Detection and Classification in Power Distribution Networks via Wavelet Transform**" TMU & ITRC Technical Reports, Sept. 2004.
- 16- Mana Tarjoman and Hassan Ghassemian, "**Fingerprint Classification by Directional Image**" TMU & ITRC Technical Reports, Sept. 2004.
- 17- Ameneh Jalali and Hassan Ghassemian, "**A Robust Feature Extraction for Fingerprint Classification and Identification**" TMU & ITRC Technical Reports, Sept. 2004.
- 18- Hassan Ghassemian, "**On-Line MRI and EEG Data Fusion in a 3D BrainMap System**" Tarbiat Modares University Technical Reports, Oct. 2004.
- 19- Sahar Nesaei, Hassan Ghassemian, "**A new Filter-Bank for Textural Image Classification**" TMU & ITRC Technical Reports, Aug. 2005.
- 20- Naser Chaji, Hassan Ghassemian, "**Image Segmentation by Edge and Textural Information Fusion**" TMU & ITRC Technical Reports, March 2006.
- 21- H. Dehghani, H. Ghassemian, "**High Dimensional Remote Sensing Data Classification With Limited Training Samples**", TMU & ITRC Technical Reports, August 2006.
- 22- S. Helfroush, H. Ghassemian, "**Nonminutiae-Based Fingerprint Verification**", TMU & ITRC Technical Reports, October 2006, (printed in Persian).
- 23- H. Ebrahimnezhad, H. Ghassemian, "**3D Model Reconstruction by Silhouette, Stereo and Motion Features Fusion**", TMU & ITRC Technical Reports, April 2007.
- 24- M. Elyasi, H. Ghassemian, "**IKONOS-Spatial Information and SPOT-Spectral Information Fusion**", TMU & ITRC Technical Reports, July 2007.
- 25- S. Daneshvar, H. Ghassemian, "**Improving 3D Medical Image Fusion in Brain Tumor Monitoring**", TMU & ITRC Technical Reports, March 2008.
- 26- M. Imani, H. Ghassemian, "**Improving Hyperspectral Classification by Feature Fusion**", TMU & INSF Technical Reports, January 2016.

Journal Papers

- 180- Mohamad Ebrahim Aghili, Maryam Imani and Hassan Ghassemian, "Clustering based background learning for hyperspectral anomaly detection", *Earth Science Informatics*, VOL. 26, NO. 3, 477-489, 2023. [Paper](#)
- 179- Shiva Aghapour, Hassan Ghassemian, Maryam Iman "Spectrum Similarity-Based Quality Assessment Metric", *International Journal of Information and Communication Technology Research*, VOL. 14, NO. 4, 19-27, 2022. [Paper](#)
- 178- Amir Hossein Ghazvinizadeh, Maryam Imani and Hassan Ghassemian, "Residual network based on entropy-anisotropy-alpha target decomposition for polarimetric SAR image classification", *Earth Science Informatics*, VOL. 16, NO. 1, 357–366, 2023. [Paper](#)
- 177- Beheshteh Khosravi, Maryam Imani and Hassan Ghassemian, "Shaped patch based nonparametric discriminant analysis for hyperspectral image classification through the CNN model", *International Journal of Remote Sensing*, VOL. 44, NO. 6, 1789–1819, 2023. [Paper](#)
- 176- Reza Seifi Majdar and Hassan Ghassemian, "Spectral-spatial classification fusion for hyperspectral images in the probabilistic framework via arithmetic optimization Algorithm", *International Journal of Image and Data Fusion*, VOL. 13, NO. 3, 262–277, 2022. [Paper](#)
- 175- Abbas Kakoolvand, Maryam Imani and Hassan Ghassemian, "Unsupervised change detection in SAR images based on generalized likelihood ratio test and a two-stage morphological filter", *International Journal of Remote Sensing*, VOL. 43, NO. 12, 4630–4662, 2022. [Paper](#)
- 174- Ghassem Khademi and Hassan Ghassemian, "Second-Order Total Generalized Variation Regularization for Pansharpening", *IEEE Geoscience and Remote Sensing Letters*, vol. Early Access Article, vol. 19, DOI: 10.1109/LGRS.2020.3043435, 2022. [Abstract](#)
- 173- Reza Seifi Majdar and Hassan Ghassemian, "Improved Locality Preserving Projection for Hyperspectral Image Classification in Probabilistic Framework", *International Journal of Pattern Recognition and Artificial Intelligence*, Vol. 35, No. 15 (2021) DOI: 10.1142/S0218001421500427 (25 pages). [Paper](#)
- 172- Ashkan Taghipour and Hassan Ghassemian, "A bottom-up and top-down human visual attention approach for hyperspectral anomaly detection", *Journal of Visual Communication and Image Representation*, Available online 9 April, vol. 77, no. 5, pp. 103113, 2021. [Abstract](#).
- 171- Ashkan Taghipour and Hassan Ghassemian, "Visual attention-driven framework to incorporate spatial-spectral features for hyperspectral anomaly detection", *International Journal of Remote Sensing*, vol. 42, no. 19, pp. 7454-7488, 2021. [Abstract](#).
- 170- Arash Saboor and Hassan Ghassemian, "Adversarial Discriminative Active Deep Learning for Domain Adaptation in Hyperspectral Images Classification", *International Journal of Remote Sensing*, vol. 42, no. 10, pp. 3981-4003, 2021. [Abstract](#).
- 169- F. Poorahangaryan and H. Ghassemian, "Spectral-Spatial Hyperspectral Image Classification Based on Homogeneous Minimum Spanning Forest", *Mathematical Problems in Engineering*, vol. Volume 2020, Article ID 8884965, 11 pages, 2020. [Abstract](#).
- 168- Mohammad Ghassemi and Hassan Ghassemian and Maryam Imani, "Hyperspectral image classification by optimizing convolutional neural networks based on information theory and 3D-Gabor filters", *International Journal of Remote Sensing*, vol. 42, no. 11, pp. 4380-4410, 2021. [Abstract](#).
- 167- Shiva Aghapour and Hassan Ghassemian, "A pansharpened image quality assessment using segmentation procedure", *International Journal of Remote Sensing*, vol. 42, no. 11, pp. 4157-4176, 2021. [Abstract](#).
- 166- Arash Saboori and Hassan Ghassemian, Farbod Razzazi, "Active Multiple Kernel Fredholm Learning for Hyperspectral Images Classification", *IEEE Geoscience and Remote Sensing Letters*, vol. 18, no. 2, pp.356-360, 2021. [Abstract](#)
- 165- Ghassem Khademi and Hassan Ghassemian, "A primal-dual method for total-variation-based pansharpening", *International Journal of Remote Sensing*, vol. 42, no. 6, pp. 2072–2104, 2021. [Abstract](#).
- 164- Reza Naeimi and Hassan Ghassemian, "Spectral and spatial information improvement multispectral image based on recursive full-scale estimation", *International Journal of Remote Sensing*, vol. 42, no. 6, pp. 2350–2375, 2021. [Abstract](#).

- 163- Farshid Khajehrayeni and Hassan Ghassemian, "A linear hyperspectral unmixing method by means of autoencoder networks", *International Journal of Remote Sensing*, vol. 42, no. 7, pp. 2517–2531, 2021. [Abstract](#).
- 162- Arash Saboori and Hassan Ghassemian, "Robust transfer joint matching distributions in semi-supervised domain adaptation for hyperspectral images classification", *International Journal of Remote Sensing*, vol. 41, no. 23, pp. 9283–9307, 2020. [Abstract](#).
- 161- Farshid Khajehrayeni and Hassan Ghassemian, "Hyperspectral Unmixing Using Deep Convolutional Autoencoders in a Supervised Scenario", *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, vol. 13, no. 1, pp. 567-576, 2020. [Abstract](#)
- 160- Maryam Imani and Hassan Ghassemian, "An overview on Spectral and Spatial Information Fusion for Hyperspectral Image Classification: Current Trends and Challenges", vol. 59, pp. 59-83, Nov. 2020, doi: 10.1016/j.inffus.2020.01.007. [Paper](#)
- 159- Mehdi Ghamchili and Hassan Ghassemian, "Pansharpening through an Improved Sparsity-Based Fusion Method", *International Journal of Remote Sensing*, vol. 41, no. 6, pp. 2159-2188, 2020. [Abstract](#)
- 158- Reza Seifi Majdar and Hassan Ghassemian, "A probabilistic framework for weighted combination of multiple-feature classifications of hyperspectral images", *Journal of Earth Sci Inform* 13, 55–69 (2020). [Paper](#)
- 157- Maryam Imani and Hassan Ghassemian, "Residential load forecasting using wavelet and collaborative representation transforms", *Journal of Applied Energy*, vol. 253, no. 1, pp. 1-12, 2019. [Paper](#)
- 156- Ashkan Taghipour and Hassan Ghassemian, "Hyperspectral anomaly detection using spectral–spatial features based on the human visual system", *International Journal of Remote Sensing*, vol. 40, no. 24, pp. 8683-8704, 2019. [Abstract](#)
- 155- Maryam Imani and Hassan Ghassemian, "Supervised Feature Extraction of Face Images for Improvement of Recognition Accuracy", *Journal of Signal and Data Processing*, vol. 16, no. 1, pp. 157-171, 2019 (Printed in Persian). [Paper](#)
- 154- Sadjad Adelipour and Hassan Ghassemian, "Building Extraction from Very High-Resolution Synthetic Aperture Radar Images Based on Statistical and Structural Information Fusion", *International Journal of Remote Sensing*, vol. 40, no. 18, pp. 7113-7126, 2019. [Abstract](#)
- 153- Reza Naeimi Marandi and Hassan Ghassemian, "A new pixel wise fusion based on feedback error correction", *Remote Sensing Letters*, vol. 10, no. 8, pp. 806-815, May 2019. [Abstract](#)
- 152- Sadjad Adelipour and Hassan Ghassemian, "Building Detection in Very High Resolution SAR Images via Sparse Representation Over Learned Dictionaries", *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, vol. 11, no. 12, pp. 4808-4817, 2018. [Abstract](#)
- 151- Maryam Imani and Hassan Ghassemian, "Spectral-Spatial Feature Transformation with Controlling Contextual Informations through Smoothing Filtering and Morphological Analysis", *International Journal of Information & Communication Technology Research*, vol. 10, no. 1, pp. 1-12, Winter 2018. [Abstract](#)
- 150- Maryam Vafadar and Hassan Ghassemian, "Hyperspectral Anomaly Detection Using Combined Similarity Criteria", *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, vol. 11, no. 11, pp. 4076-4085, 2018. [Abstract](#)
- 149- Meysam Lotfi and Hassan Ghassemian, "A New Variational Model in Texture Space for Pansharpening", *IEEE Geoscience and Remote Sensing Letters*, vol. 15, no. 8, pp. 1269-1273, 2018. [Abstract](#)
- 148- Ghassem Khademi and Hassan Ghassemian, "Incorporating an Adaptive Image Prior Model into Bayesian Fusion of Multispectral and Panchromatic Images", *IEEE Geoscience and Remote Sensing Letters*, vol. 15, no. 6, pp. 917-921, 2018. [Abstract](#)
- 147- F. Poorahangaryan and Hassan Ghassemian, "A Hybrid Multi-scale Spatial Filtering and Minimum Spanning Forest for Spectral-Spatial Hyperspectral Image Classification", *Springer, Journal of Indian Society of Remote Sensing*, vol. 46, no. 3, pp. 345–353, 2018. [Paper](#)

- 146- Maryam Vafadar and Hassan Ghassemian, "Anomaly Detection of Hyperspectral Imagery Using Modified Collaborative Representation", *IEEE Geoscience and Remote Sensing Letters*, vol. 15, no. 4, pp. 577-581, 2018. [Abstract](#)
- 145- Sajjad Eghbalian and Hassan Ghassemian, "Multi Spectral Image Fusion by deep convolutional neural network and new Spectral loss function", *International Journal of Remote Sensing*, vol. 39, no. 12, pp. 3983-4002, 2018. [Abstract](#)
- 144- Maryam Imani and Hassan Ghassemian, "Morphology Based Structure Preserving Projection for Spectral-Spatial Feature Extraction and Classification of Hyperspectral Data", *IET Image Processing*, vol. 13, no. 2, pp. 270-279, 2019. [Abstract](#)
- 143- F. Poorahangaryan and Hassan Ghassemian, "A Multiscale Modified Minimum Spanning Forest Method for Spatial-Spectral Hyperspectral Images Classification", *EURASIP Journal on Image and Video Processing*, DOI 10.1186/s13640-017-0219-9, 2017. [Paper](#)
- 142- Farshid Khajeh Rayeni and Hassan Ghassemian, "Spectral Unmixing Using Improved HYCA Algorithm", *Journal of Signal and Date Processing*, vol. 14, no. 3, pp. 37-50, 2017(Printed in Persian). [Paper](#)
- 141- Maryam Imani and Hassan Ghassemian, "Discriminant Analysis in Morphological Feature Space for High-Dimensional Image Spatial-Spectral Classification", *J. Applied Remote Sensing*, vol. 12 no.1, pp. 0160241- 01602428, 2018. [Abstract](#)
- 140- A. Maleknejad, H. Ghassemian, H. Kosha, "Improving Hyperspectral Classification by ALI and Hyperion Image Fusion", *Journal of Remote Sensing and GIS*, vol. 7, no. 3, pp. 65-82, 2015 ([Paper](#) Printed in Persian).
- 139- Meysam Lotfi and Hassan Ghassemian, "A Pansharpening Method Based on Modified Cartoon Plus Texture Decomposition", *Remote Sensing Letters*, vol. 9, no. 3, pp. 209-217, 2018. [Abstract](#)
- 138- Azadeh Kianisarkaleh and Hassan Ghassemian, "Modified Nonparametric Discriminant Analysis for Classification of Hyperspectrl Images With Limited Training Samples", *Journal of Signal and Date Processing*, vol. 14, no. 2, pp. 43-58, 2017(Printed in Persian). [Paper](#)
- 137- Arian Azarang and Hassan Ghassemian, "Application of Fractional-Order Differentiation in Multispectral Image Fusion", *Remote Sensing Letters*, vol. 9, no. 1, pp. 91-100, 2018. [Abstract](#)
- 136- Maryam Imani and Hassan Ghassemian, "Attribute profile based feature space discriminant analysis for spectral-spatial classification of hyperspectral images", *Computers and Electrical Engineering*, vol. 62 no.8, pp. 555-569, 2017. [Paper](#)
- 135- Maryam Imani and Hassan Ghassemian, "Weighted Joint Collaborative Representation Based On Median-Mean Line and Angular Separation", *IEEE Transactions on Geoscience and remote Sensing*, vol. 55 no.10, pp. 5612-5624, Oct. 2017. DOI: [10.1109/TGRS.2017.2710355](https://doi.org/10.1109/TGRS.2017.2710355), [Abstract](#)
- 134- Maryam Imani and Hassan Ghassemian, "Feature reduction of hyperspectral data for increasing of class separability and preserving of data structure", *Journal of Signal and Date Processing*, vol. 14, no. 1, pp. 71-82, 2017(Printed in Persian). [Paper](#)
- 133- Maryam Hamidi, Hassan Ghassemian, Maryam Imani "Classification of heart sound signal using curve fitting and fractal dimension", *Biomedical Signal Processing and Control*, vol. 39, no. -, pp. 351-359, 2017. [Paper](#)
- 132- Maryam Imani and Hassan Ghassemian, "Pansharpening Optimization Using Multi-Resolution Analysis and Sparse Representation", *International Journal of Image and Data Fusion*, vol. 8, no. 3, pp. 270-292, 2017. [Paper](#)
- 131- Amin Zehtabian and Hassan Ghassemian, "An adaptive framework for spectral-spatial classification based on a combination of pixel-based and object-based scenarios", *Earth Science Informatics*, vol. 10, no. 3, pp. 357-368, June 2017 2017. DOI 10.1007/s12145-017-0298-2, [Paper](#)
- 130- Fatemeh Kowkabi, Hassan Ghassemian, and Ahmad Keshavarz, "Hybrid Preprocessing Algorithm for Endmember Extraction Using Clustering, Over-Segmentation, and Local Entropy Criterion", *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, vol. 10, no. 6, pp. 2940-2949, June 2017. [Abstract](#)

- 129- Ashkan Taghipour and Hassan Ghassemian, "Hyperspectral Anomaly Detection Using Attribute Profiles", IEEE Geoscience and Remote Sensing Letters, vol. 14, no. 7, pp. 1136-1140, 2017. [Abstract](#)
- 128- Maryam Imani and Hassan Ghassemian, "Edge Preserving Based Collaborative Representation for Spectral-Spatial Classification", International Journal of Remote Sensing, vol. 38, no. 20, pp. 5524-5545, 2017. [Abstract](#)
- 127- Mansoor Zeinali and Hassan Ghassemian, "A Novel Method for Increasing The Spatial Resolution Of Remote Sensing Images Using Lookup Table", *Journal of Signal and Date Processing*, vol. 13, no. 4, pp. 19-28, 2017 (Printed in Persian). [Abstract](#)
- 126- Fatemeh Kowkabi, Hassan Ghassemian, and Ahmad Keshavarz, "A novel spatial spectral Preprocessor for improvement of hyperspectral unmixing", Computational Intelligence in Electrical Engineering, vol. 7, no. 3, 97-114, 2016 (Printed in Persian). [Abstract](#)
- 125- Reza Seifi Majdar and Hassan Ghassemian, "A probabilistic SVM approach for hyperspectral image classification using spectral and texture features", International Journal of Remote Sensing, vol. 38, no. 15, pp. 4265-4284, 2017. [Abstract](#)
- 124- Seyed Abolfazl Hosseini and Hassan Ghassemian, "Hyperspectral Data Feature Extraction Using Rational Function Curve Fitting", Journal of Signal and Data Processing, vol. 13, no. 3, pp. 3-16, 2016 (Printed in Persian). [Abstract](#)
- 123- Maryam Imani and Hassan Ghassemian, "Edge Patch Image Based Morphological Profiles for Classification of Multispectral and Hyperspectral Data", IET Image Processing, vol. 11, no. 3, pp. 164-172, 2017. [Abstract](#)
- 122- Reza Seifi Majdar and Hassan Ghassemian, "Spectral-Spatial classification of hyperspectral images using functional data analysis", Remote Sensing Letters, vol. 8, no. 5, pp. 488-497, 2017. [Abstract](#)
- 121- Roja Hosseini Shafie, Abass Ali Mohammadi, and Hassan Ghassemian, "Change Detection Map Assessments using Multiscale Wavelet Decomposition", Iranian Journal of Remote Sensing and GIS, vol. 8, no. 2, pp. 17-34, 2016 ([Paper](#) Printed in Persian).
- 120- Maryam Imani and Hassan Ghassemian, "Feature extraction of hyperspectral images using boundary semi-labeled samples and hybrid criterion", Journal of AI and Data Mining, vol. 5, no. 1, pp. 39-53, 2017. [Abstract](#)
- 119- Morteza Ghahremani and Hassan Ghassemian, "Nonlinear IHS: A Promising Method for Pan-Sharpener", IEEE Geoscience and Remote Sensing Letters, vol. 13, no. 11, pp. 1606-1610, 2016. [Abstract](#)
- 118- Maryam Imani and Hassan Ghassemian, "Local histogram and discriminative learning-based hyperspectral data classification", Remote Sensing Letters, vol. 8, no. 1, pp. 86-95, 2017. [Abstract](#)
- 117- Azadeh Kianisarkaleh and Hassan Ghassemian, "Spatial-spectral locality preserving projection for hyperspectral image classification with limited training samples", International Journal of Remote Sensing, vol. 37, no. 21, pp. 5045-5059, 2016. [Abstract](#)
- 116- Azadeh Kianisarkaleh and Hassan Ghassemian, "Marginal discriminant analysis using support vectors for dimensionality reduction of hyperspectral data", Remote Sensing Letters, vol. 7, no. 12, pp. 1160-1169, 2016. [Abstract](#)
- 115- Maryam Imani and Hassan Ghassemian, "Weighted Feature Line Embedding for Feature Extraction of Hyperspectral Data", Journal of Iranian Association of Electrical and Electronics Engineers Vol. 13 No.2, Summer 2016 (Printed in Persian). [Paper](#)
- 114- Maryam Imani and Hassan Ghassemian, "Hyperspectral image classification using cluster space linear discriminant analysis and small training set", Iranian Journal of Electrical and Computer Engineering, vol. 14, no. 1, pp. 73-81 (Printed in Persian). [Paper](#)
- 113- Maryam Imani and Hassan Ghassemian, "Spectral and Spatial Discriminant Analysis for Fused Feature Extraction in Hyperspectral Images", Modares Journal of Electrical Engineering, vol.13, no.2, Summer 2013. [Paper](#)

- 112- Azadeh Kianisarkaleh and Hassan Ghassemian, "Nonparametric feature extraction for classification of hyperspectral images with limited training samples", ISPRS Journal of Photogrammetry and Remote Sensing 119 (2016) pp. 64–78. [Abstract](#)
- 111- M. Saadatmand-Tarzjan and H. Ghassemian, "On Analytical Study of Self-Affine Maps", Journal of Iranian Association of Electrical and Electronics Engineers - Vol.12- No.3- Winter 2015. [Abstract](#)
- 110- Hassan Ghassemian, "A review of remote sensing image fusion methods, Information Fusion", vol. 32, Part A, pp. 75-89, Nov. 2016, doi:10.1016/j.inffus.2016.03.003. [Abstract](#)
- 109- Amin Zehtabian, and Hassan Ghassemian, "Automatic Object-based Hyperspectral Image Classification Using Complex Diffusions and a New Distance Metric", IEEE Transactions on Geoscience and remote Sensing, vol. 54, no. 7, pp. 4106 – 4114, July 2016, DOI: 10.1109/TGRS.2016.2536687. [Abstract](#)
- 108- Fatemeh Kowkabi, Hassan Ghassemian, and Ahmad Keshavarz, "Enhancing Hyperspectral Endmember Extraction using Clustering and Over-segmentation based Preprocessing", IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, vol. 9, no. 6, pp. 2400 - 2413, June 2016, DOI: 10.1109/JSTARS.2016.2539286. [Abstract](#)
- 107- F. Kowkabi, H. Ghassemian, "A Fast Spatial-Spectral Preprocessing Module for Hyperspectral Endmember Extraction", IEEE Geoscience and Remote Sensing Letters, vol. 13, no. 6, pp. 782-786, June 2016, DOI: 10.1109/LGRS.2016.2544839. [Abstract](#)
- 106- Fardin Mirzapour and Hassan Ghassemian, "Multiscale Gaussian Derivative Functions for Hyperspectral Image Feature Extraction", IEEE Geoscience and Remote Sensing Letters, vol. 13, no. 4, pp. 525-529, April 2016, DOI: 10.1109/LGRS.2016.2521763. [Abstract](#)
- 105- Fardin Mirzapour and Hassan Ghassemian, "Moment-based feature extraction from high spatial resolution hyperspectral images, International Journal of Remote Sensing", vol. 37, no. 6, 2016, doi.org/10.1080/2150704X.2016.1151568. [Abstract](#)
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My graduated PhD. Students

- 49- Shiva Aghapour Maleki (2022, Supervisor) " Object-Based Method for Quality Assessment of Multispectral Image Pansharpener"
- 48- Reza Naeimi Marandi (2021, Supervisor) " Spectral-Spatial Information Improvement of Multispectral Images Based on Feedback Error Correction"
- 47- Ashkan Taghipour (2021, Supervisor) " Anomaly Detection in Remote Sensing Inspired by Visual Attention and Analysis of Spectral-Spatial Information "
- 46- Ghassem Khademi (2020, Supervisor) " Bayesian Fusion of Remote Sensing Images "
- 45- Arash Saboori (2020, Supervisor, **SRBU**) " Domain Adaptation for Classification of Remote Sensing Data "
- 44- Farshid KhajehRayeni (2020, Supervisor) "Hyperspectral Unmixing Based on Spectral-Spatial Information"
- 43- Sadjad Adelipour Amlashi (2020, Supervisor) "Target Detection in Urban Area using Analysis of Spatial Features in Synthetic Aperture Radar Images"
- 42- Mehdi Ghamchili (2019, Supervisor) " Image Fusion at Remote Sensing by Sparsity"
- 41- Mysam Lotfi (2018, Supervisor) "A Pansharpener Method based on Modified Cartoon plus Texture Decomposition"
- 40- Maryam Vafadar (2018, Supervisor, **SRBU**) "Anomaly detection in Remote Sensing Hyperspectral Imagery using Spatial-Spectral"
- 39- Sajad Eghbalian (2018, Supervisor) "Increasing the Spatial Information of Multispectral Images by Deep Learning"
- 38- Fershteh Poorahangaryan (2017, Supervisor, **SRBU**) "Hyperspectral Classification Using Spectral-Spatial Information Based on Image Segmentation"
- 37- Reza Seifi (2017, Supervisor, **SRBU**) "Hyperspectral Image Feature Extraction Improvement by Spatial Information"
- 36- Azadeh Kiani (2016, Supervisor, **SRBU**) "Feature Extraction for Classification of Remotely Sensed Hyperspectral Images with Limited Training Samples"
- 35- Fatemeh Kowkabi (2016, Supervisor, **SRBU**) "Hyperspectral Image Unmixing and Endmember Extraction using Spatial-Spectral Information"
- 34- Amin Zehtabian (2016, Supervisor) "Object-Based Remotely Sensed Image Segmentation Using Spectral-Spatial Information Hyperspectral Image Classification"
- 33- Abolfazl Hosseini (2015, Supervisor) "Classification Enhancement of Hyperspectral Images using Feature Extraction"
- 32- Mostafa Borhani (2015, Supervisor) "Hyperspectral Remote Sensing Image Classification Based on Spectral-Spatial Kernel Machines"
- 31- Fardin Mirzapour (2015, Supervisor) "Exploiting Spatio-Spectral Features in Hyperspectral Image Classification"
- 30- Maryam Imani (2015, Supervisor) "Feature Extraction Using Limited Training Samples For Hyperspectral Images"
- 29- Hamid Reza Shahdoosti (2014, Supervisor) "Improving Spatial Information of Remotely Sensed Images by MS and PAN Image Fusion"
- 28- Rozbeh Rajabi (2014, Supervisor) "Mixed Pixels Processing in Remotely Sensed Hyperspectral Imagery"
- 27- Mansoor Zeinali (2014, Supervisor, **SRBU**) "Increasing Spatial Resolution of Remote Sensing Images by Spatial and Spectral Information Fusion"
- 26- Nasser Behrozi Khazaei (2013, Supervisor) "Modeling and Optimizing of Grape Drying Process by Machine Vision and Artificial Neural Network"
- 25- Bahareh Jamshidi (2012, **Advisor**) "Non-destructive Taste Characterization and Classification of Oranges Using Vis/NIR Spectroscopy"
- 24- Mehdi Kamandar (2012, Supervisor) "Classification of Hyperspectral Data and Removing of Nonlinear Dependency between Them"
- 23- Sepideh Jabbari (2012, Supervisor) "Extraction of Systolic Murmurs Template Based on Atomic Model for Diagnosis of Heart Valvular Diseases"
- 22- Maryam Mohebbi (2011, Supervisor) "Prediction of Paroxysmal Atrial Fibrillation from ECG Signal"

- 21- Ali Hosseini (2010, Supervisor, **SRBU**) "Hyperspectral Image Classification by Incorporating Spatial and Spectral Information"
- 20- Mahdi Saadatmand (2010, Supervisor) "Cardiac MRI Images Segmentation Using Self-Affine Snake"
- 19- Ahmad Keshavarz (2008, Supervisor) "Hyperspectral Image Analysis by Spatial and Spectral Feature Fusion"
- 18- Hossein Porghassem (2008, Supervisor) "A Content-Based Approach to Medical Image Database Retrieval"
- 17- Sabalan Daneshvar (2008, Supervisor) "Improving 3D Multi-Modal Medical Image Fusion in Brain Tumor Monitoring"
- 16- Hossein Ebrahimnezhad (2007, Supervisor) "3D Model Reconstruction by Silhouette, Stereo and Motion Features Fusion"
- 15- Sadegh Helfroush (2006, Supervisor) "Non Minutiae-Based Fingerprint Verification"
- 14- Hamid Dehghani (2006, Supervisor) "High Dimensional Remote Sensing Data Classification with Limited Training Samples"
- 13- Sayed Mahmoud Sakhaei (2006, **Advisor**) "The Enhancement of Beam Properties in Ultrasound Imaging Using Signal Processing Methods"
- 12- Akbar Kiani (2005, **Advisor**) "Simulation and Evaluation of Viability Intelligent Sensors and Cellular Automata in Hyper-map Analyses"
- 11- Naser Chaji (2005, Supervisor) "Image Segmentation by Edge and Texture Feature Fusion"
- 10- Alireza Sedighi Anaraki (2004, **Advisor**) "High Impedance Fault Detection in Distribution System Using Wavelet Transform"
- 9- Ali Rashidi (2004, Supervisor) "Multi-System Decision Fusion in Remote Sensing"
- 8- Reza Valavi (2003, Supervisor) "Multi-Sensor Image Data Fusion in Remote Sensing Applications"
- 7- Hamidreza Bakhshi (2001, Supervisor) "Bit Error Reduction for DS/CDMA Systems Over Fading Channels"
- 6- Reza Golparvar (2000, Supervisor) "Segmentation of Magnetic Resonance Images"
- 5- Ali Khalilzadeh (1999, Supervisor) "Quantification and Evaluation of Brain Potentials for Determination of Anesthesia Depth"
- 4- Farshad Almasganj (1998, **Advisor**) "Structural Analysis of Farsi Utterances Using Prosodic Features"
- 3- S. Ali Seyyed Salehi (1996, **Advisor**) "Farsi Continuous Speech Recognition Using Human Brain Function Model"
- 2- Habiballah Abbasi Dezfuli (1995, **Advisor**) "Frequency Estimation by Non-uniform Sampling"
- 1- M. Mahdi Nayebi (1994, **Advisor**) "Detection of Radar Targets in Clutter Plus Noise"



Image Processing and Information Analysis Laboratory's Group May 2023 (after the corona pandemic!)



Image Processing and Information Analysis Laboratory's Group May 2019



Image Processing and Information Analysis Laboratory's Group May 2018



Image Processing and Information Analysis Laboratory's Group May 2017



Image Processing and Information Analysis Laboratory's Group May 2016



Image Processing and Information Analysis Laboratory's Group May 2015



Image Processing and Information Analysis Laboratory's Group June 2015



Image Processing and Information Analysis Laboratory's Group May 2014



May 2013



Image Processing and Information Analysis Laboratory's Group May 2012



Image Processing and Information Analysis Laboratory's Group May 2012



Image Processing and Information Analysis Laboratory's Group May 2004



Image Processing and Information Analysis Laboratory's Group 1990



Image Processing and Information Analysis Laboratory's Group 1989



Laboratory's Group March 1986



Laboratory's Group April 1981