



Hassan Ghassemian
Professor of Electrical and Computer Engineering
Tarbiat Modares University
Tehran, Iran
P.O. Box 14155-194
Phone: (+98921) 82883373
Fax: (+9821) 82884325



Areas of Expertise and Interest

Signal and Information Processing

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 120 MS EE Thesis, and 30 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 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 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.

Journal Papers

- 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, Early Access, 2018. [Paper](#)
- 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, DOI: 10.1049/iet-ipr.2017.1431, 2018. [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 Data 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 Pansharpener 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 Hyperspectral Images With Limited Training Samples", *Journal of Signal and Data 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 Data 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 Data 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](#)
- 104- M. Imani, H. Ghassemian, High-Dimensional Image Data Feature Extraction by Double Discriminant Embedding, Pattern Analysis and Applications, DOI 10.1007/s10044-015-0513-z. [Abstract](#)
- 103- Amin Zehtabian, Hassan Ghassemian, Combining Genetic Algorithm with PDEs for Improving the Performance of Statistical Region Merging Based Object Extraction, 2016, J Indian Soc Remote Sens, DOI 10.1007/s12524-015-0515-8. [Abstract](#)
- 102- Morteza Ghahremani, and Hassan Ghassemian, A Compressed-Sensing-Based Pan Sharpening Method for Spectral Distortion Reduction, IEEE Transactions on Geoscience and remote Sensing, DOI: 10.1109/TGRS.2015.2497309. [Abstract](#)
- 101- Maryam Imani , Hassan Ghassemian , Binary coding based feature extraction in remote sensing high dimensional data, Information Sciences, vol. 342, pp. 191-208, 2016, doi:10.1016/j.ins.2016.01.032. [Abstract](#)

- 100- Meysam Golipour, Hassan Ghassemian, and Fardin Mirzapour, Integrating Hierarchical Segmentation Maps With MRF Prior for Classification of Hyperspectral Images in a Bayesian Framework, IEEE Transactions on Geoscience and remote Sensing, VOL. 54, NO. 2, pp. 805-816, FEBRUARY 2016. [Abstract](#)
- 99- S. A. Hosseini, H. Ghassemian, Hyperspectral Data Feature Extraction Using Rational Function Curve Fitting, International Journal of Pattern Recognition, Vol. 30, No. 1 1650001 (18 pages), 2016. [Abstract](#)
- 98- S. A. Hosseini, H. Ghassemian, Rational Function Approximation for Feature Reduction In Hyperspectral Data, Remote Sensing Letters, vol. 7, no. 2, 101-110, 2016. [Abstract](#)
- 97- Fereshteh Poorahangaryan, Hassan Ghassemian, Spectral-Spatial Classification of Multi-spectral Images Based on Improved EM Clustering Technique, Electronics Industries Quarterly, Vol. 6 No. 3, pp. 45-53, 2015. (Printed in Persian). [Paper](#)
- 96- M. Imani, H. Ghassemian, Overlap based feature weighting for feature extraction of hyperspectral remote sensing imagery, Journal of AI and Data Mining, vol. 3, no. 2, 2015, 181-190. [Paper](#)
- 95- M. Imani, H. Ghassemian, Two Dimensional Linear Discriminant Analysis for Hyperspectral Data, Journal of Photogrammetric Engineering & Remote Sensing (PE&RS), vol. 81, no. 10, pp. 777-786, Oct. 2015. [Abstract](#)
- 94- M. Imani, H. Ghassemian, Feature space discriminant analysis for hyperspectral data feature reduction, ISPRS Journal of Photogrammetry and Remote Sensing, vol. 102, pp. 1-13, 2015. [Abstract](#)
- 93- M. Imani, H. Ghassemian, Feature Extraction Using Median-Mean and Feature Line Embedding, International Journal of Remote Sensing, vol. 36, no. 17, pp. 4297-4314, 2015. [Abstract](#)
- 92- Hamid Reza Shahdoosti and Hassan Ghassemian, Combining the spectral PCA and spatial PCA fusion methods by an optimal filter, Information Fusion, Volume 27, January 2016, Pages 150–160. [Abstract](#)
- 91- Fardin Mirzapour, Hassan Ghassemian, Fast GLCM and Gabor Filters for Texture Classification of Very High Resolution Remote Sensing Images, International Journal of Information & Communication Technology Research, Vol. 7, No. 3, pp. 21-30, 2015. [Abstract](#)
- 90- S. A. Hosseini, H. Ghassemian, Application of Curve Fitting in Hyperspectral Data Classification and Compression, Journal of Information Systems and Telecommunication, Vol. 3, No. 3, pp. 142-149, July-September 2015. [Paper](#)
- 89- Morteza Ghahremani and Hassan Ghassemian, Remote-sensing image fusion based on curvelets and ICA, International Journal of Remote Sensing, vol. 36, no. 16, pp: 4131-4143, 2015. [Abstract](#)

- 88- Mostafa Borhani and Hassan Ghassemian, Kernel Multivariate Spectral–Spatial Analysis of Hyperspectral Data, IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, VOL. 8, NO. 6, pp. 2418-2426, JUNE 2015. [Abstract](#)
- 87- Ahmad MalekNejad, Hassan Ghassemian, Fardin Mirzapour, On efficacy of GLCM texture features in classifying pansharpened hyperspectral images of residential and industrial regions in southern Tehran, Journal of Geomatics Science and Technology, vol. 5, no. 1, pp. 55-64, 2015.(Printed in Persian). [Abstract](#)
- 86- Mostafa Borhani, Hassan Ghassemian, Spectral-Spatial Hyper Spectral Classification Based on Statistical Dependence Between Adjacent Pixels, CSI Journal on Computer Science and Engineering, Vol. 11, No. 2 & 4 (b), 2013, pages 43-54. [Paper](#)
- 85- Mostafa Borhani, Hassan Ghassemian, Spectral-Spatial Graph Kernel Machines in the Context of Hyperspectral Remote Sensing Image Classification, CSI Journal on Computer Science and Engineering, Vol. 11, No. 2 & 4 (b), 2013, pages 31-42. [Paper](#)
- 84- Maryam Imani, Hassan Ghassemian, Feature reduction of hyperspectral images: Discriminant analysis and the first principal component, Journal of AI and Data Mining , Vol 3, No 1, 2015, 1-9. [Abstract](#)
- 83- Imani, M., Ghassemian, H., "Feature Extraction Using Weighted Training Samples", IEEE Geoscience and Remote Sensing Letters, Vol. 12, No. 7, pp. 1387 – 1386, 2015. [Abstract](#)
- 82- Amin Zehtabian, Avishan Nazari, Hassan Ghassemian and Marco Griboaldo, Adaptive Restoration of Multispectral Datasets used for SVM classification, European Journal of Remote Sensing - 2015, 48: 183-200. [Paper](#)
- 81- Hassan Ghassemian and Azra Rasouli Kenari, Early Detection of Pediatric Heart Disease by Automated Spectral Analysis of Phonocardiogram in Children, Journal of Information Systems and Telecommunication, Vol. 3, No. 2, pp. 66-75, April-June 2015. [Paper](#)
- 80- H. R. Shahdoosti, H. Ghassemian, Multispectral and Panchromatic Image Fusion by Combining Spectral PCA and Spatial PCA Methods, MODARES JOURNAL OF ELECTRICAL ENGINEERING, VOL.11,NO.3, FALL 2011. [Paper](#)
- 79- Habib Alizadeh, Hassan Ghassemian, Spectral and Spatial Unmixing of Hyperspectral Images Using Semi-nonnegative Matrix Factorization and Principal Component Analysis, Signal and Data Processing, Volume 11, Number 2 (3-2015), (Printed in Persian). [Abstract](#)
- 78- Maryam Imani, Hassan Ghassemian, Ridge Regression-Based Feature Extraction for Hyperspectral Data, International Journal of Remote Sensing, vol. 36, no. 6, pp1728-1742, June 2015. [Abstract](#)
- 77- B. Jamshidi, S. Minaei, E. Mohajerani and H. Ghassemian, Pattern recognition of near-infrared spectroscopy for non-destructive discrimination of oranges based on taste index, Journal of Agricultural Machinery, Vol. 5, No. 1, Spring - Summer 2015, p. 101-110, (Printed in Persian). [Abstract](#)

- 76- Fardin Mirzapour and Hassan Ghassemian, Improving hyperspectral image classification by combining spectral, texture, and shape features, *International Journal of Remote Sensing* vol. 36, no. 4, pp1070-1096, April 2015. [Abstract](#)
- 75- A. Zehtabian and H. Ghassemian, An Adaptive Pixon Extraction Technique for Multispectral/Hyperspectral Image Classification, *IEEE Geoscience and Remote Sensing Letters*, vol. 12, no. 4, April 2015. [Abstract](#)
- 74- H. R. Shahdoosti and H. Ghassemian, Fusion of MS and PAN Images Preserving Spectral Quality, *IEEE Geoscience and Remote Sensing Letters*, vol. 12, no. 3, March 2015. [Abstract](#)
- 73- M. Ghahremani and H. Ghassemian, Remote Sensing Image Fusion Using Ripplet Transform and Compressed Sensing, *IEEE Geoscience and Remote Sensing Letters*, vol. 12, no. 3, March 2015. [Abstract](#)
- 72- R. Rajabi and H. Ghassemian, Spectral Unmixing of Hyperspectral Imagery Using Multilayer NMF, *IEEE Geoscience and Remote Sensing Letters*, vol. 12, no. 1, January 2015. [Abstract](#)
- 71- B. Jamshidi, S. Minaei, E. Mohajerani and H. Ghassemian, Effect of Spectral Pre-Processing Methods on Non-Destructive Quality Assessment of Oranges Using NIRS, *Journal of Agricultural Engineering Research*, Vol.15, No.2, pp. 27-44, 2014, (Printed in Persian). [Abstract](#)
- 70- A. Mirza Boroujerdian , M. Saffarzadeh, H. Yousefi, H. Ghassemian, A model to identify high crash road segments with the dynamic segmentation method, *Accident Analysis and Prevention* 73 (2014) 274–287. [Abstract](#)
- 69- R. Rajabi and H. Ghassemian, Sparsity Constrained Graph Regularized NMF for Spectral Unmixing of Hyperspectral Data, *Journal of Indian Society of Remote Sensing*, 2014, DOI 10.1007/s12524-014-0408-2. [Abstract](#)
- 68- Maryam Imani, Hassan Ghassemian, Nonparametric Supervised Feature Extraction for Classification of Hyperspectral Images Using Limited Training Samples, *Electronics Industries Quarterly* Vol.4 No.3 Autumn 2013, (Printed in Persian). [Abstract](#)
- 67- M. Zeinali, H. Ghassemian , Application of Merging Pixels in Restoring Mixed Pixels Data, *Journal of Geomatics Science and Technology*, 2014; 3 (3) :55-64, (Printed in Persian). [Abstract](#)
- 66- M. Imani and H. Ghassemian, "Feature Extraction Using Attraction Points for Classification of Hyperspectral Images in Small Sample Size Situation ,"*IEEE Geoscience and Remote Sensing Lett.*, vol. 11, no. 11, pp. 1986 - 1990, Nov. 2014. [Abstract](#)
- 65- Khodadadzadeh, M., Li, J., Plaza, A., Ghassemian, H., Bioucas-Dias, J.M., Li, X., Spectral-Spatial Classification of Hyperspectral Data Using Local and Global Probabilities for Mixed Pixel Characterization, *IEEE Transactions on Geoscience and Remote Sensing*, vol. 52, no. 10. Oct. 2014. [Abstract](#)
- 64- Maryam Imani,, Hassan Ghassemian, Assessment of Performance Improvement in Hyperspectral Image Classification Based

on Adaptive Expansion of Training Samples, Journal of Information Systems and Telecommunication, Vol. 2, No. 2, April-June 2014. [Abstract](#)

- 63- H. Aghapanah, H.Ghassemian, Unsupervised Skin cancer detection by combination texture and shape features in dermoscopy images, Computational Intelligence in Electrical Engineering, Volume 5, Number 1 (5-2014) (Printed in Persian). [Abstract](#)
- 62- Jamshidi, B., Minaei, S., Mohajerani, E., Ghassemian, H., Prediction of soluble solids in oranges using visible/near-infrared spectroscopy: Effect of peel, (2014) *International Journal of Food Properties* 17 (7) PP. 1460 - 1468 [Abstract](#)
- 61- Mansoor Zeinali, Hassan Ghassemian, Mohammad Naser-Moghaddasi: A New Magnification Method for RGB Color Images Based on Subpixels Decomposition. IEEE Signal Process. Lett. 21(5): 577-580 (2014) [Abstract](#)
- 60- Maryam Imani, Hassan Ghassemian: Band Clustering-Based Feature Extraction for Classification of Hyperspectral Images Using Limited Training Samples. IEEE Geosci. Remote Sensing Lett. 11(8): 1325-1329 (2014), [Abstract](#)
- 59- Maryam Mohebbi, Hassan Ghassemian, Predicting termination of paroxysmal atrial fibrillation using empirical mode decomposition of the atrial activity and statistical features of the heart rate variability, Medical & Biological Engineering & Computing, May 2014, Volume 52, Issue 5, pp 415-427. [Abstract](#)
- 58- Hamidreza shahdoosti, Hassan Ghassemian, Multispectral and Panchromatic image fusion using Spatial PCA, International Journal of Signal and Data Processing, Volume 10, Number 1 (9-2013) (Printed in Persian). [Abstract](#)
- 57- Nasser Behroozi, Teymour Tavakoli, Hassan Ghassemian, Hadi Khoshtaghaza, Ahmad Banakar, Applied Machine Vision and Artificial Neural Network for Modeling and Controlling of the Grape Drying Process, Computers and Electronics in Agriculture, Volume 98, October 2013, Pages 205-213. [Abstract](#)
- 56- Behroozi Khazaei, N., Tavakoli Hashjin, T., Ghassemian, H., Khoshtaghaza, M.H., Banakar, A., Application of machine vision in modeling of grape drying process, (2013) *Journal of Agricultural Science and Technology* 15 (6) PP. 1095 - 1106 [Abstract](#)
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Selected Master Projects and Thesis:

Selected PhD Projects and Dissertations:

My PhD. Students

- 38- Sajad Eghbalian (2018, Supervisor) "[Increasing the Spatial Information of Multispectral Images by Deep Learning](#)"
- 37- Fershteh Poorahangaryan (2017, Supervisor) "[Hyperspectral Classification Using Spectral-Spatial Information Based on Image Segmentation](#)"
- 36- Reza Seifi (2017, Supervisor) "Hyperspectral Image Feature Extraction Improvement by Spatial Information"
- 35- Azadeh Kiani (2016, Supervisor) "[Feature Extraction for Classification of Remotely Sensed Hyperspectral Images with Limited Training Samples](#)"
- 34- Fatemeh Kowkabi (2016, Supervisor) "[Hyperspectral Image Unmixing and Endmember Extraction using Spatial-Spectral Information](#)"
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- 32- Abolfazl Hosseini (2015, Supervisor) "[Classification Enhancement of Hyperspectral Images using Feature Extraction](#)"
- 31- Mostafa Borhani Mirzapour (2015, Supervisor) "[Hyperspectral Remote Sensing Image Classification Based on Spectral-Spatial Kernel Machines](#)"

- 30- Fardin Mirzapour (2015, Supervisor) "Exploiting Spatio-Spectral Features in Hyperspectral Image Classification"
- 29- Maryam Imani (2015, Supervisor) "Feature Extraction Using Limited Training Samples For Hyperspectral Images"
- 28- Hamid Reza Shahdoosti (2014, Supervisor) "Improving Spatial Information of Remotely Sensed Images by MS and PAN Image Fusion"
- 27- Rozbeh Rajabi (2014, Supervisor) "Mixed Pixels Processing in Remotely Sensed Hyperspectral Imagery"
- 26- Mansoor Zeinali (2014, Supervisor) "Increasing Spatial Resolution of Remote Sensing Images by Spatial and Spectral Information Fusion"
- 25- Nasser Behrozi Khazaei (2013, Supervisor) "Modeling and Optimizing of Grape Drying Process by Machine Vision and Artificial Neural Network"
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- 18- Ahmad Keshavarz (2008, Supervisor) "Hyperspectral Image Analysis by Spatial and Spectral Feature Fusion"
- 17- Hossein Porghassem (2008, Supervisor) "A Content-Based Approach to Medical Image Database Retrieval"
- 16- Sabalan Daneshvar (2008, Supervisor) "Improving 3D Multi-Modal Medical Image Fusion in Brain Tumor Monitoring"
- 15- Hossein Ebrahimnezhad (2007, Supervisor) "3D Model Reconstruction by Silhouette, Stereo and Motion Features Fusion"
- 14- Sadegh Helfroush (2006, Supervisor) "Non Minutiae-Based Fingerprint Verification"
- 13- Hamid Dehghani (2006, Supervisor) "High Dimensional Remote Sensing Data Classification with Limited Training Samples"
- 12- Akbar Kiani (2005, Advisor) "Simulation and Evaluation of Viability Intelligent Sensors and Cellular Automata in Hypermap 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"
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