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265

Supervised PhD Theses

#	Thesis title	By	Date
1	Pose-Invariant Face Recognition using 2D and 3D Images	Farshid Hajati & Abolghasem Raie	July 2011
2	Mobile robot localization using stereo vision for indoor environments	Gader Karimian Khosrowshahi & Abolghasem Raie	August 2006

Supervised MSc Theses

#	Thesis title	By	Date
1	Operational assistance system for load sway suppression of an overhead crane	Amirhassan Mahdavi & Abolghasem Raie	September 2021
2	Event Recognition in Video Images Using Deep Neural Networks	Mohammad Alijanpour Shalmani & Abolghasem Raie	June 2020
3	Human Action Recognition in Still Images Based on Deep Learning	Fereshte Moradi Kor & Abolghasem Raie	February 2020
4	Image Denoising using Deep Learning	Behnam Latifi & Abolghasem Raie	February 2020
5	Retinal Blood Vessel Segmentation Using Deep Neural Networks	Seyyed Mohammad Ali Dastgheib & Abolghasem Raie	November 2019

6	Improvement of Object Detection in Video Streams Based on Neural Network	Mohammadali Gharabakloo & Abolghasem Raie	May 2019
7	People Tracking in Video Streams Based on Deep Learning	Maryam Nadeali & Abolghasem Raie	March 2019
8	Stabilization and Image Enhancement of Shaky Video Files	Alireza Jafari & Abolghasem Raie	January 2019
9	Navigation of mobile robot using Low-cost GPS/INS sensors	Pedram Hosseini Akram & Abolghasem Raie	September 2018
10	Scene classification based on the detection of objects and the relationship between them indoor	Reza Khammari & Abolghasem Raie	May 2018
11	improvement in human action recognition Techniques on video streams	Abolfazl Taghribi & Abolghasem Raie	February 2018
12	Spontaneous Facial Expression Recognition	Hassan Namazian Arani & Abolghasem Raie	February 2018
13	Pedestrian detection in images	Sina Ghaffari & Abolghasem Raie	October 2017
14	Design and Implementation of an Obstacle Detection System for Blind navigation	Sepehr Farivar & Abolghasem Raie	February 2017
15	An efficient limit cycle walker Design and manufacture	Amin Haghazari Kiwi & Abolghasem Raie	February 2017
16	Evaluation of monocytic lineage cells maturation based on morphological features in Microscopic Images	Soheil Zabihi & Abolghasem Raie	February 2016
17	Image segmentation for holistic scene understanding	Ebrahim Soroush & Abolghasem Raie	February 2016
18	Age estimation based on facial feature	Farzad Baghbani & Abolghasem Raie	November 2015
19	Facial Expression Recognition using appearance based features	Morteza Najmabadi & Abolghasem Raie	September 2015
20	trajectory planning of underactuated two link robot	Homa Ghaffarzadeh Dizaji & Abolghasem Raie	September 2014
21	view-Invariant face recognition inspired from human visual system	Amir Hossein Farzmaadi & Abolghasem Raie	February 2014
22	computer user interface using gaze tracking	Seyed Sajad Ashrafi Alikelayeh & Abolghasem Raie	October 2013
23	expression-invariant 3D face recognition	Fazael Ayatollahi & Abolghasem Raie	October 2013
24	facial expression recognition using image texture description	Hamid Sadeghi & Abolghasem Raie	September 2013
25	Head pose estimation for controlling robot's camera field of vision	Navid Mahmoudian Bidgoli & Abolghasem Raie	February 2013
26	Robust Video-based Face Recognition under pose Variations	Saeed Nasiri & Abolghasem Raie	February 2013
27	License plate character recognition from low-resolution images	Amir Ebrahimi Ghahnavieh & Abolghasem Raie	October 2012

28	Dense disparity map estimation and improvement using Dynamic Programming	Behzad Salehian & Abolghasem Raie	January 2012
29	dense disparity map estimation and improvement extracted from stereo images using graph cuts	Meisam Nourozi Barzamim Abadi & Abolghasem Raie	January 2012
30	Gaze Detection using Image Processing	Mohammad Reza Mohammadi & Abolghasem Raie	September 2011
31	Design and implementation of localization for PeopleBot based on wheel encoders	Ali Asgar Rezaee & Abolghasem Raie	February 2011
32	Design and Implementation of a Skid-Steered Mobile Robot and Implementation of an Improved Trajectory Tracking Control Algorithm	Anahid Attarkashani & Abolghasem Raie	February 2011
33	Design and manufacturing of a skid steer mobile robot with Application to Extended-Kalman Filter-Based Localization	Siavash Gorji & Abolghasem Raie	February 2011
34	Sway and position control of load in gantry cranes	Hamed Saeidi & Abolghasem Raie	July 2010
35	implementation of a stereo matching algorithm on FPGA (aiming performance improvement)	Kaveh Firozy & Abolghasem Raie	January 2010
36	3D Face Recognition base on surface matching algorithms	Mohammad Daroogheh Zadeh Arany & Abolghasem Raie	January 2010
37	Design and hardware implementantion of a modem for high voltage transmission lines	Zahra Mohammadzadeh & Abolghasem Raie	July 2009
38	Design and implementation of hardware and software of control unit for sway reduction in cranes	Akbar Assa & Abolghasem Raie	June 2009
39	anew clustering algoritrm for mobile wire less ad hocnet works considering power consumption and in creasting net work lifetime	Ali Ansari & Abolghasem Raie	March 2008
40	IMPLEMENTATION AND IMPROVMENT OF SOME METHODS OF SYSTEMATIC AND NON-SYSTEMATIC ODOMETRY ERROR CORRECTIONS ON PEPLEBOT RO	Amirfarzad Khavari & Abolghasem Raie	July 2007

Journal Papers

Portal Records

- 1 Hamid Sadeghi, Abolghasem Raie, "Human Vision Inspired Feature Extraction for Facial Expression Recognition", MULTIMEDIA TOOLS AND APPLICATIONS, June 2019 Vol. 0, Num. 0, Page 1-19, June 2019,
- 2 Hamid Sadeghi, Abolghasem Raie, "Metric Learning based on Fast X2 Distance for Histogram Data Classification via KNN Classifier", Journal of Electrical Engineering, June 2019 Vol. 49, Num. 2, Page 657-668, June 2019,
- 3 Alireza Ramezan Ghanbari, Abolghasem Raie, "New Control Method, with the Aim of Optimizing the Efficiency of Half Bridge Converter under the load variations", Journal of Electrical Engineering, June 2019 Vol. 49, Num. 2, Page 613-625, June 2019,
- 4 Hamid Sadeghi, Abolghasem Raie, "Histogram distance metric learning for facial expression recognition", JOURNAL OF VISUAL COMMUNICATION AND IMAGE REPRESENTATION, May 2019 Vol. 62, Num. 0, Page 152-165, May 2019,
- 5 Alireza Ramezan Ghanbari, Abolghasem Raie, "General Multi-Mode Control Method for Optimizing the Efficiency of Full Bridge Converter Based on Prominent Control Modes and Transition Points Calculation", IET POWER ELECTRONICS, April 2019 Vol. 0, Num. 0, Page 1-12, April 2019,

- 6 Alireza Ramezan Ghanbari, Abolghasem Raie, "Proposing a Multi-Mode Switching Control Method for Half-Bridge Converter, to Improve its Efficiency over the Entire Load Variations", IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, March 2019 Vol. 0, Num. 0, Page 1-11, March 2019,
- 7 Behzad Salehian, Ali M. Fotouhi, Abolghasem Raie, "Dynamic programming-based dense stereo matching improvement using an efficient search space reduction technique", OPTIK, January 2018 Vol. 160, Num. 0, Page 1-12, January 2018,
- 8 Mohammad Hossein Hajigholam, Abolghasem Raie, Karim Faez, "Multi-Task Joint Spatial Pyramid Matching Using Sparse Representation with Dynamic Coefficients for object recognition", JOURNAL OF ELECTRONIC IMAGING, April 2016 Vol. 25, Num. 2, Page 1-8, April 2016,
- 9 Hamed Eslami, Abolghasem Raie, Karim Faez, "Precise vehicle speed measurement based on a hierarchical homographic transform estimation for law enforcement applications", IEICE TRANSACTIONS ON INFORMATION AND SYSTEMS, March 2016 Vol. E99-D, Num. 6, Page 1-10, March 2016,
- 10 Amir Ebrahimi Ghahnavieh, Abolghasem Raie, "A New Hierarchical Architecture Based on SVM for Persian License Plate Character Recognition", Journal of Advances in Computer Research, February 2016 Vol. 7, Num. 1, Page 49-66, February 2016,
- 11 Amir Ebrahimi Ghahnavieh, Abdollah Amirkhani, Abolghasem Raie, Mohammad R. Mosavi, "Car License Plate Recognition using Color Features of Persian License Plates", Journal of Advances in Computer Research, November 2015 Vol. 6, Num. 4, Page 27-38, November 2015,
- 12 Hamed Eslami, Abolghasem Raie, Karim Faez, "Precise vehicle speed measurement for law enforcement applications based on calibrated camera with parallel standard patterns", IET COMPUTER VISION, November 2015 Vol. 0, Num. 10, Page 0-0, November 2015,
- 13 Fazel Ayatollahi, Abolghasem Raie, Farshid Hajaty, "Expression-invariant face recognition using depth and intensity dual-tree complex wavelet transform features", JOURNAL OF ELECTRONIC IMAGING, April 2015 Vol. 24, Num. 2, Page 1-13, April 2015,
- 14 Hamid Sadeghi, Abolghasem Raie, "Suitable models for face geometry normalization in facial expression recognition", JOURNAL OF ELECTRONIC IMAGING, January 2015 Vol. 24, Num. 1, Page 1-14, January 2015,
- 15 Hamid Sadeghi, Abolghasem Raie, Mohammad Reza Mohammadi, "Facial Expression Recognition Using Texture Description of Displacement Image", Journal of Information systems and Telecommunication, December 2014 Vol. 2, Num. 4, Page 205-212, December 2014,
- 16 Hamid Sadeghi, Fazel Ayatollahi, Abolghasem Raie, "Facial Expression Recognition using Geometric Normalization and Dual-Tree Complex Wavelet Transform", , December 2014 Vol. 45, Num. 3, Page 79-87, December 2014,
- 17 Navid Mahmoudian Bidgoli, Abolghasem Raie, Mahyar Naraghi, "Probabilistic principal component analysis for texture modelling of adaptive active appearance models and its application for head pose estimation", IET COMPUTER VISION, April 2014 Vol. 1, Num. 1, Page 1-10, April 2014,
- 18 Amir Ebrahimi Ghahnavieh, Mahmoud Enayati, Abolghasem Raie, "Introducing a large dataset of Persian license plate characters", JOURNAL OF ELECTRONIC IMAGING, March 2014 Vol. 23, Num. 2, Page 1-7, March 2014,
- 19 Behzad Salehian, Abolghasem Raie, Ali M. Fotouhi, Meisam Nourozi Barzamim Abadi, "Efficient interscanline consistency enforcing method for dynamic programming-based dense stereo matching algorithms", JOURNAL OF ELECTRONIC IMAGING, December 2013 Vol. 22, Num. 4, Page 1-11, December 2013,
- 20 Alireza Rezaee, Abolghasem Raie, Saeed Shiry Ghidary, "Learning Behavior and resistance to Environmental Change by Sensors Fault in Mobile Robot using Dynamic Bayesian Network Based on Data", , December 2013 Vol. 43, Num. 1, Page 27-38, December 2013,
- 21 Mohammad Reza Mohammadi, Abolghasem Raie, "Pose-Invariant Eye Gaze Estimation Using Geometrical Features of Iris and Pupil Images", Journal of Information systems and Telecommunication, September 2013 Vol. 1, Num. 3, Page 143-153, September 2013,
- 22 Mohammad Reza Mohammadi, Abolghasem Raie, "Selection of Unique Gaze Direction Based on Pupil Position", IET COMPUTER VISION, March 2013 Vol. 1, Num. 1, Page 1-8, March 2013,
- 23 Mohammad Reza Mohammadi, Abolghasem Raie, "Pose-invariant eye gaze estimation using a conventional camera", , January 2013 Vol. 41, Num. 1, Page 44-55, January 2013,

- 24 Hamed Saeidi, Mahyar Naraghi, Abolghasem Raie, "A Neural Network Self Tuner Based on Input Shapers Behavior for Anti Sway System of Gantry Cranes", JOURNAL OF VIBRATION AND CONTROL, July 2012 Vol. 0, Num. 0, Page 0-0, July 2012,
- 25 Mohammad Reza Mohammadi, Abolghasem Raie, "A Novel Accurate Algorithm to Ellipse Fitting for Iris Boundary Using Most Iris Edges", Journal of American Science, June 2012 Vol. 8, Num. 6, Page 758-763, June 2012,
- 26 Hamed Saeidi, Mahyar Naraghi, Abolghasem Raie, "Design and Implementation of a Neural Network Controller for Anti Sway System of Gantry Cranes", , June 2012 Vol. 14, Num. 1, Page 74-94, June 2012,
- 27 Ali Mohammad Fotouhi, Abolghasem Raie, "Optimizing Disparity Candidates Space in Dense Stereo Matching", Amirkabir International Journal of Modeling, Identification, Simulation & Control, December 2011 Vol. 43, Num. 2, Page 43-51, December 2011,
- 28 Farshid Hajati, Abolghasem Raie, Yongsheng Gao, "3D Face Recognition using Geodesic PZM Array from a Single Model per Person", IEICE TRANSACTIONS ON INFORMATION AND SYSTEMS, July 2011 Vol. E94-D, Num. 7, Page 1488-1496, July 2011,
- 29 Ali Mohammad Fotouhi, Abolghasem Raie, "an efficient local stereo matching algorithm for dense disparity map estimation based on more effective use of intensity information and matching constraints", , May 2009 Vol. , Num. 5, Page 0-0, May 2009,
- 30 Gader Karimian Khosrowsshahi, Abolghasem Raie, Karim Faez, "Geometric Constraints for Line Segment Tracking in Image Sequences", , December 2007 Vol. , Num. 1, Page 0-0, December 2007,
- 31 Gader Karimian Khosrowsshahi, Abolghasem Raie, Karim Faez, "A New and Efficient Algorithm to Track line Segments in a Sequence of Consecutive Images", , July 2007 Vol. 0, Num. 0, Page 0-0, July 2007,
- 32 Gader Karimian Khosrowsshahi, Abolghasem Raie, Karim Faez, "On Some Geometric and Structural Constraints in Stereo Line Segment Matching", , March 2007 Vol. , Num. 1, Page 0-0, March 2007,
- 33 Gader Karimian Khosrowsshahi, Abolghasem Raie, Karim Faez, "A New Efficient Stereo Line Segment Matching Algorithm", International journal of science & technology AMIRKABIR, March 2007 Vol. 17, Num. 0, Page 39-51, March 2007,
- 34 Gader Karimian Khosrowsshahi, Abolghasem Raie, Karim Faez, "A New Efficient Stereo Line Segment Matching Algorithm Based on More Effective Usage of The Photometric, Geometric and Structural Information", , July 2006 Vol. , Num. 7, Page 0-0, July 2006,
- 35 Mehdi Karrari, Arash Samavati, Abolghasem Raie, "Position control of three-phase induction motors using sliding mode control strategy and its implementation", , November 2003 Vol. , Num. 1, Page 0-0, November 2003,
- 36 Abolghasem Raie, Ahmad Vakili, Mahyar Naraghi, "A new method for measurement and correction of odometry errors in mobile robots", Amirkabir Journal, March 2003 Vol. 0, Num. 54, Page 0-0, March 2003,
- 37 Abolghasem Raie, Vahid Rashtchi, "Using a genetic algorithm for detection and magnitude determination of turn faults in an induction motor", , December 2002 Vol. , Num. 5, Page 0-0, December 2002,

Conference Papers

Portal Records

- 1 Maryam Talebi Rostami, Abolghasem Raie, "Deep learning network for fully automatic left ventricle segmentation", (2018 4th Iranian Conference on Signal Processing and Intelligent Systems (ICSPIS, December 2018
- 2 Hamid Sadeghi, Abolghasem Raie, "Facial expression recognition using image texture descriptions based on Gabor filter based features and human vision system", The 23rd National Computer Society of Iran Computer Conference, February 2018
- 3 Hamid Sadeghi, Abolghasem Raie, "2 histogram metric learning with dropout regularizer", 3rd Iranian Conference on Signal Processing and Intelligent Systems, December 2017

- 4 Abolfazl Taghribi, Abolghasem Raie, Majid Shalchian, "A Novel Fast Bio-Inspired Feature for Motion Estimation ", 10th Iranian conference on machine vision and image processing, November 2017
- 5 Sina Ghaffari, Abolghasem Raie, "Pedestrian detection using improved proposal boxes and grayscale convolutional learning ", The 10th Iranian Conference on Machine Vision and Image Processing (MVIP2017), November 2017
- 6 Hamid Sadeghi, Abolghasem Raie, "Approximated Chi-Square Distance for Histogram Matching in Facial Image Analysis: Face and Expression Recognition ", The 10th Iranian Conference on Machine Vision and Image Processing (MVIP2017), November 2017
- 7 Hamid Sadeghi, Abolghasem Raie, "Facial Expression Recognition in Controlled and Uncontrolled Images Using Metric Learning ", The 10th Iranian Conference on Machine Vision and Image Processing (MVIP2017), November 2017
- 8 Mohammad Hossein Hajigholam, Abolghasem Raie, "Using Sparse Representation Classifier to Calculate Variable Coefficients for Multi-Task Joint Spatial Pyramid Matching ", The 10th Iranian Conference on Machine Vision and Image Processing (MVIP2017), November 2017
- 9 Amin Haghazari Kiwi, Mahyar Naraghi, Abolghasem Raie, Ali Tehrani Safa, "Improve robustness and stability walking robot that used impulsive ankle push-off by swing leg retraction ", 25th Annual International Conference on Mechanical Engineering, ISME2017, May 2017
- 10 Ebrahim Soroush, Abolghasem Raie, "A Unified Model for Using the Higher-order Information in Semantic Segmentation Tasks ", 3rd International Conference on Recent Innovations in Electrical Engineering and Computer, September 2016
- 11 Hamid Sadeghi, Abolghasem Raie, "metric learning on histogrammic data based on Chi distance ", 1st international conference new perspective in Electrical and computer Engineering, September 2016
- 12 Alireza Ramezan Ghanbari, Abolghasem Raie, "Efficiency Improvement Of Full Bridge Converter Under The Load Variation Using The Multi Mode Control ", The 24th Iranian Conference on Electrical Engineering, May 2016
- 13 Soheil Zabihi, Abolghasem Raie, "Automatic Segmentation of white blood cells using k-means clustering and color spaces ", Computer Society of Iran Computer Conference 2016, March 2016
- 14 Mohammad Hossein Hajigholam, Abolghasem Raie, "Multi-Task Joint Spatial Pyramid Matching with Dynamic Coefficients for image classification ", 9th Iranian Conference on Machine Vision and Image Processing, November 2015
- 15 Hamed Eslami, Abolghasem Raie, Karim Faez, "Fast estimation of the vehicles 3D model and precise localization of vehicle in the scene for video surveillance and law enforcement applications ", 9th Iranian Conference on Machine Vision and Image Processing, November 2015
- 16 Morteza Najmabadi, Abolghasem Raie, "facial expression recognition by applying derivative-Gaussian mask for features extraction local direction number the differential image ", 7th Iranian Conference on Electrical and Electronics Engineering, August 2015
- 17 Morteza Najmabadi, Abolghasem Raie, Hamid Sadeghi, "Facial Expression Recognition by applying descriptor Local Directional Number Pattern on image differential ", 2nd INTERNATIONAL CONFERENCE ON PATTERN RECOGNITION AND IMAGE ANALYSIS, March 2015
- 18 Hamid Sadeghi, Abolghasem Raie, Hassan Kaatuzian, "Automatic Fault Detection for IC pads In Integrated circuits manufacturing with a new definition using Local Binary method ", The second international conference on Pattern Recognition and Image Analysis (IPRIA2015), March 2015
- 19 Hamed Eslami, Abolghasem Raie, Karim Faez, "Robust Vehicle Localization in the Scene and Law Enforcement Camera Calibration Using License Plate ", 2nd INTERNATIONAL CONFERENCE ON PATTERN RECOGNITION AND IMAGE ANALYSIS, March 2015
- 20 Mehdi Khodadadilori, Abolghasem Raie, "Robust Visual Tracking With Occlusion Detection Using Compressive Sensing ", 4th International Conference on Computer and Knowledge Engineering, October 2014
- 21 Hamid Sadeghi, Fazel Ayatollahi, Abolghasem Raie, "Facial expression recognition using mean model and DT-CWT wavelet transform ", The 22nd Iranian Conference on Electrical Engineering (ICEE 2014), May 2014

- 22 Saeed Nasiri, Amir Ebrahimi Ghahnavieh, Abolghasem Raie, "Video-based Face Recognition Using the POEM Descriptor ", 22nd Iranian Conference on Electrical Engineering (ICEE2014), May 2014
- 23 Amir Ebrahimi Ghahnavieh, Abdollah Amirkhani, Abolghasem Raie, "Enhancing the License Plates Character Recognition Methods by Means of SVM ", 22nd Iranian Conference on Electrical Engineering (ICEE2014), May 2014
- 24 Hamid Sadeghi, Abolghasem Raie, "Semi-Dynamic Facial Expression Recognition based on Masked Displacement Image ", International Symposium on Artificial Intelligence and Signal Processing (AISP) 2013, December 2013
- 25 Hamid Sadeghi, Abolghasem Raie, Moahammad Reza Mohammadi, "Facial Expression Recognition Using Geometric Normalization and Appearance Representation ", 8th Iranian Conference on Machine Vision and Image Proseccing (MVIP2013, September 2013
- 26 Hamid Sadeghi, Abolghasem Raie, Mohammad Reza Mohammadi, "Facial Expression Recognition Using Texture Description of Displacement Image ", 21st Iranian Conference on Electrical Engineering (ICEE2013, May 2013
- 27 Behzad Salehian, Abolghasem Raie, Ali M. Fotouhi, Meisam Nourozi Barzamim Abadi, "hh ", 21st Iranian Conference on Electrical Engineering (ICEE2013, May 2013
- 28 Mohammad Reza Mohammadi, Abolghasem Raie, "Robust Pose-Invariant Eye Gaze Estimation Using Geometrical Features of Iris and Pupil Images ", 20th Iranian Conference on Electrical Engineering, May 2012
- 29 Meisam Nourozi Barzamim Abadi, Abolghasem Raie, Ali M. Fotouhi, Behzad Salehian, "Improved Ssereo matching algorithm based on graph cut using search space reduction technique ", icee2012, May 2012
- 30 Meisam Nourozi Barzamim Abadi, Abolghasem Raie, Ali M. Fotouhi, Behzad Salehian, "Implementing search space reduction technique in stereo matching with occlusions algorithm based on graph cut approach ", icee2012, May 2012
- 31 Mohammad Reza Mohammadi, Abolghasem Raie, "A new approach to boundary extraction of objects in images ", 7th Iranian Conference on Machine Vision and Image Processing, November 2011
- 32 Mohammad Reza Mohammadi, Abolghasem Raie, "A Novel Technique for Pupil Center Localization Based On Projective Geometry ", 7th Iranian Conference on Machine Vision and Image Processing, November 2011
- 33 Akbar Assa, Abolghasem Raie, Anahid Attarkashani, Siavash Gorji, Mahyar Naraghi, "A Four Step Design Procedure for an Improved Fuzzy Crane Control ", the 4th International Conference on Autonomous Robots and Agent-ICARA 2009, February 2009
- 34 Abolghasem Raie, Vahid Rashtchi, "Accurate identification of parameters, in winding function model of induction motor, using GA ", , July 2002