

CV of Dr. Ahmadyfard:

Alireza Ahmadyfard received a Bachelor of Engineering Science degree in Electronic Engineering from the Esfahan university of technology in Iran in 1989. He then received a Master of Science degree from Department of Electrical Engineering at the Amirkabir university of technology in Tehran in 1994. He worked on communication systems during his MSC course. Following that, he joined the shahrood university of technology as an assistant lecturer in Electronic engineering. Within 1997 - 1999 he was the head of computing center in the shahrood university.

In 1999 he was awarded a grant from the ministry of science and technology in Iran to continue his graduate studies. He obtained a PhD in computer vision from CVSSP (Center for Vision and Signal Processing) at the university of surrey in UK in 2003. During his PhD course he developed a region-based method for object recognition. He also was involved with two of European projects ASSAVID and VAMPIRE during his work in CVSSP. In these projects he worked on video annotation and event detection using audio and visual cues.

He rejoined the Department of Electronics at the Shahrood university of technology, as a lecturer in Electronic Engineering and Robotics. His current research interest are computer vision, image processing and in general, signal processing. Here are a number of his selected papers in Journals and Conference proceedings.

Journals

- 1) Jalil Ghavidel Neycharan and Alireza Ahmadyfard."Edge color transform: a new operator for natural scene text localization". Multimedia Tools and Applications. pp 1-22. Apr 2017
- 2) MH Khosravi, H Hassanpour and A Ahmadifard"A content recognizability measure for image quality assessment considering the high frequency attenuating distortions" Multimedia Tools and Applications. pp 1-26. Apr 2017.
- 3) Majid Iranpour Mobarakeh, Alireza Ahmadyfard "Isolated Persian/Arabic word spotting by label embedding" Journal of Engineering Research. Vol 4 (2): 66-80. 2016.
- 4) Azade Mokari and Alireza Ahmadyfard."Fast single image super resolution via dictionary learning". IET Image Processing. Volume: 11(2): 13-144. 2017.
- 5) Mohammad Amir Nazari Siahsar, Saman Gholtashee, Amin Roshandel Kahoo, Hossain Marvi and Alireza Ahmadyfrad."Sparse time-frequency representation for seismic noise reduction using low-rank and sparse decomposition". Vol 81 (2). Geophysics: 117-124. 2016.
- 6) Mohammad Amir Nazari Siahsar, Saman Gholtashee, Amin Roshandel Kahoo, Hossain Marvi and Alireza Ahmadyfard "Synchrosqueezing-based Transform and its Application in Seismic Data Analysis". Iranian Journal of Oil and Gas. Vol 4 (4):1-14. 2016.
- 7) Abdolmajid Dejamkhooy, Ali Dastfan and Alireza Ahmadyfard."Source detection and propagation of equal frequency voltage flicker in nonradial power". Turkish Journal of Electrical Engineering and Computer Sciences. Vol 24(3):1351-1370 · January 2016.
- 8) Ali Harimi, Alireza Ahmadyfard, Ali Shahzadi and Khashayar Yaghmaie. "Anger or Joy? Emotion Recognition Using Nonlinear Dynamics of Speech". Applied Artificial Intelligence. Vol 29(7): 675-696. Aug 2015.

- 9) Amir Peyghambari, Ali Dastfan and Alireza Ahmadyfard. "Strategy for switching period selection in random pulse width modulation to shape the noise spectrum". IET Power Electronics. Vol 8(4) :517-523. Apr 2015.
- 10) Parham Khojasteh, Alireza Ahmadyfard, Behzad Tokhmechi and Seyyed Abdollah Mirmahdavi. "Automatic detection of formations using images of oil well drilling cuttings". Journal of Petroleum Science and Engineering. Vol 125: 67-74 . 2015.
- 11) Ali Shahzadi, Alireza Ahmadyfard, Ali Harimi and Khashayar Yaghmaie. "Speech emotion recognition using nonlinear dynamics features". Turkish Journal of Electrical Engineering and Computer Sciences. Vol 23 :2056-2073. Jan 2015.
- 12) Abdolmajid Dejamkhooy, Ali Dastfan and Alireza Ahmadyfard. "Modeling and forecasting of Non- Stationary voltage flicker and its source detection in power system". Journal of Electrical Systems . Vol. 10 (2): 223-137. Jun 2014.
- 13) Amir Peyghambari, Ali Dastfan and Alireza Ahmadyfard. "Selective Voltage Noise Cancellation in Three-Phase Inverter Using Random SVPWM". IEEE Transactions on Power Electronics. Jan 2015.
- 14) Abdolmajid Dejamkhooy, Ali Dastfan and Alireza Ahmadyfard. "Modeling and Forecasting Non-Stationary Voltage Fluctuation Based on Grey System Theory". IEEE Transactions on Power Delivery. Vol 31(6): 4604-4610. Jan 2015.
- 15) Z.Imani, A.R.Ahmadyfard and A. Zohrevand. "Holistic Farsi Handwritten Word Recognition Using Gradient Features". Journal of Artificial Intelligence & Data Mining. Vol 4(1): 19-25. 2016.
- 16) Abdolmajid Dejamkhooy, Ali Dastfan and Alireza Ahmadyfard. " K-means clustering and correlation coefficient based methods for detection of flicker sources in non-radial power system". Russian Electrical Engineering. Vol 85(4): 251-259. Apr 2014.
- 17) B. Yousefi, Seyed mostafa Mirhassani, Alireza Ahmadyfard and Mohammadmehdi Hosseini. "Hierarchical segmentation of urban satellite imagery". International Journal of Applied Earth Observation and Geoinformation. Vol 30: 158:166. 2014.
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- 20) H. Ghaheri and Alireza Ahmadyfard . "Extracting common spatial patterns from EEG time segments for classifying motor imagery classes in a Brain Computer Interface (BCI)". Scientica Iranica. Vol 20(6): 2061-2072. 2013.
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- 23) Vahid Abolghasemi and Alireza Ahmadyfard. "An edge-based color-aided method for license plate detection". Image and Vision Computing. Vol 27(8):1134-1142. 2009.
- 24) A.Ahmadyfard and J.Kittler. "The role of relational constrains in region matching". International Journal of Pattern Recognition and Artificial. 2004.

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- 26) الهام بایسته تاشک، علیرضا احمدی فرد، حسین خسروی "یک روش دو مرحله‌ای برای بازشناسی کلمات دستنوشته فارسی به کمک بلوک بندی تطبیقی گرادیان تصویر" دوره ۱۲، شماره ۳- (۱۳۹۴-۹) (In Persian)
- 27) دکتر علیرضا احمدی فرد، آقای محمد امین طلوع بیدختی، "رفع اعوجاج هندسی متون به کمک اطلاعات هندسی خطوط متن " دوره ۱۴، شماره ۲- (۱۳۹۶-۶) (In Persian)
- 28) نفیسه مفیدی، علیرضا احمدی فرد " افزایش تفکیک پذیری چند تصویری در حضور نویز با تعیین تطبیقی وزن جمله‌ها در تخمینگر MAP". دوره 3، شماره 2، پاییز و زمستان 1395، صفحه 23-38 (In Persian)
- 29) مجید ایرانپور مبارکه، علیرضا احمدی فرد "ارائه خصیصه های خاص زبان فارسی جهت بازیابی و بازشناسی کلمات تصویری فارسی با استفاده از تعبیه برچسب". دوره 3، شماره 1، بهار و تابستان 1395، صفحه 45-54 (In Persian)

Conferences

- 1) Mahmood Amiri and Alireza Ahmadyfard."A probabilistic framework for dense image registration using relaxation labelling". 2016 2nd International Conference of Signal Processing and Intelligent Systems (ICSPIS).Dec 2016
- 2) Azade Mokari and Alireza Ahmadyfard. "A fast method for single image super resolution using dictionary learning". 2015 Signal Processing and Intelligent Systems Conference (SPIS).Dec 2015.
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- 5) S. Sedghi, Ali Dastfan, Alireza Ahmadyfard and Ali Akbarzadeh Kalat." Adaptive control strategy of four-leg active power filter with LCL grid filter". 2017 8th Power Electronics, Drive Systems & Technologies Conference (PEDSTC) Jan 2017.
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- 8) Razie Masoomi, Alireza Ahmadyfard and Ali Mohtadzadeh." Retinal vessel segmentation using non-subsampled contourlet transform and multi-scale line detection" 2014 Iranian Conference on Intelligent Systems (ICIS). Feb 2014.

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- 11) Habibeh Ghaheri and Alireza Ahmadyfard. "Temporal windowing in CSP method for multi-class Motor Imagery Classification". 20th Iranian Conference on Electrical Engineering (ICEE). May 2012.
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- 16) Seyed mostafa Mirhassani, B. Yousefi, Alireza Ahmadyfard and Mitra Bahadorian. "Motion based unsharp masking [MUSM] for extracting building from urban images" . IEEE International Conference on Systems, Man and Cybernetics, SMC 2008. Singapore.
- 17) Alireza Ahmadyfard, B. Yousefi and Seyed mostafa Mirhassani. "A Hierarchical Fuzzy Based Approach for Face Detection". The 2nd International Conference on Bioinformatics and Biomedical Engineering, 2008. ICBBE 2008. Shanghai, China.
- 18) Saideh Ferdowsi and Alireza Ahmadyfard. "Using Statistical Moments as Invariants for Eye Detection". 16th European Conference on Signal Processing. Lausanne, Switzerland 2008.
- 19) Vahid Abolghasemi and Alireza Ahmadyfard. "A Fast Algorithm for License Plate Detection". Advances in Visual Information Systems, 9th International Conference, VISUAL 2007, Shanghai, China, June 28-29, 2007.
- 20) M.M Fateh and A. Ahmadyfard. "Intelligent position control of robot for grasping and carrying objects". International Congress on Manufacturing Engineering, Dec, 12-15, 2005, Tehran, Iran
- 21) A. Ahmadyfard and S.M. Nosrati. "A Novel Approach For Fingerprint Singular Points Detection Using 2D-Wavelet". In the IEEE International Conference in computer systems and applications (AICCSA07) . Amman, Jordan May 13-16, 2007
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