



CV of Dr. Alireza 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) SH Farhang, O Rezaifar, MK Sharbatdar, A Ahmadyfard."Evaluation of Different Methods of Machine Vision in Health Monitoring and Damage Detection of Structures".Journal of Rehabilitation in Civil Engineering.(Accepted 2021).
- 2) SH Farhang, O Rezaifar, MK Sharbatdar, A Ahmadyfard."Rapid Estimation Method for Vertical Deflection Measurement of Building Components Based on Image Processing Techniques".Journal of Performance of Constructed Facilities 35 (1), 2021.
- 3) M.Khormania,V.R Kalat Jaari, I.Aghayana, S.H. Ghaderi and A.RAhmadyfard. "Compressive strength determination of concrete specimens using X-ray computed tomography and finite element method". Construction and Building Materials. Volume 256, 30 September 2020.
- 4) K. Mehregan, A.R. Ahmadyfard and H.Khosravi." Super-resolution of license-plates using Weighted interpolation of neighboring pixels from Video frames". International Journal of Engineering. vol 33. no 4. pp 184-191. 2020.

- 5) R.Asgarian Dehkordi, H. Khosravi and A.R Ahmadyfard."Single image super-resolution based on sparse representation using dictionaries trained with input images patches". IET image processing. vol14. no 8. pp 1587-1593. 2020.
- 6) H.Khosravi, R. Asgarian Dehkordi and A.R. Ahmadyfard." Vehicle Speed and Dimensions Estimation from On-Road Cameras by Identifying Popular Vehicles". Sientica Iranica. vol 28. No 1. 2020.
- 7) A.A. Rezapour,S.F. Saghravani and A.R. Ahmadyfard. "Transient Behavior of Saltwater Wedge and Mixing Zone in Head-Controlled Coastal Aquifer: Experimental Measurements and Numerical Modeling".International Journal of Maritime Technology. Vol 11, no 1, pp 41-51. 2019.
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- 11) 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.
- 12) Majid Iranpour Mobarakeh, Alireza Ahmadyfard "Isolated Persian/Arabic word spotting by label embedding" Journal of Engineering Research. Vol 4 (2): 66-80. 2016.
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- 14) 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.
- 15) 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.
- 16) 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.

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Conferences

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