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**EDUCATION**

**Ph.D In Electrical Engineering and Informatics**Technical University of Berlin 2007-2012
**M.Sc In Biomedical Engineering (Bioelectric)**Amirkabir University of Technology 2004-2007
**B.Sc In Electrical Engineering (Telecommunication)**University of Tehran 2000-2004

**PUBLICATIONS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **726** | **16** | **29** | **17** | **2** |
| Citations | h-Index | Article | Conference | Book |

***Articles***

**1.** Stochastic first-order learning for large-scale flexibly tied Gaussian mixture models. Pasande Mohammad, Hosseini Reshad, Nadjar Araabi Babak (2024)., PATTERN RECOGNITION LETTERS, 178(--), 138-1344.

**2.** Stereo-RSSF: stereo robust sparse scene-flow estimation. Salehi Erfan, Aghagolzadeh Ali, Hosseini Reshad (2023)., VISUAL COMPUTER, xx(xx).

**3.** FRMDN: Flow-based recurrent mixture density network. Razavi Seyede Fateme, Hosseini Reshad, Behzad Tina (2023)., EXPERT SYSTEMS WITH APPLICATIONS, 237(x), 121360.

**4.** The optimal triangulation method is not really optimal. Nasiri Seyed-Mahdi, Hosseini Reshad, Moradisabzevar Manouchehr (2023)., IET Image Processing, ---(---).

**5.** Key Propelling of Customer Lifetime Value in Iranian Sports Clubs. Rajabi Asli Moahrokh, Khodamoradpoor Mozhgan, Yektayar mozafar, Hosseini Reshad (2023)., Sports Business Journal, 3(2).

**6.** Identifying Leading Indicators in Determining Customer Lifetime Value In Sports Clubs. Rajabi Mahrokh, Khodamoradpour Mozhgan, Yektayar mozafar, Hosseini Reshad (2023)., Quarterly Journal of Knowledge Management in Sports, 2(3).

**7.** Self-attention presents low-dimensional knowledge graph embeddings for link prediction. Baghershahi Peyman, Hosseini Reshad, Moradisabzevar Manouchehr (2023)., KNOWLEDGE-BASED SYSTEMS, 260(xx), 110124.

**8.** Online relational tracking with camera motion suppression... HosseinNasseri Mohammad, Babaee Mohammadreza, Moradisabzevar Manouchehr, Hosseini Reshad (2022)., JOURNAL OF VISUAL COMMUNICATION AND IMAGE REPRESENTATION, 90(2023), 103750.

**9.** Multiple-solutions RANSAC for finding axes of symmetry in fragments of objects. MahdiNasiri Seyed-, Hosseini Reshad, Moradisabzevar Manouchehr (2022)., PATTERN RECOGNITION, 131(2022), 108805.

**10.** A large dataset of white blood cells containing cell locations and types, along with segmented nuclei and cytoplasm. Mousavi Kouzehkanan Zahra, Saghari Sepehr, Tavakoli sajad, Rostami Peyman, Abaszadeh Mohammadjavad, Mirzadeh Farzaneh, Shahabi satlsai Esmaeil, Gheidishahran Maryam, Gorgi Fatemeh, Mohammadi Saeed, Hosseini Reshad (2022)., Scientific Reports, 12(1123).

**11.** Single-View 3d Reconstruction of Surface of Revolution. Hosseini Seyed-Mohammad Hossein, Nasiri Seyed-Mahdi, Hosseini Reshad, Moradisabzevar Manouchehr (2022)., PATTERN RECOGNITION LETTERS, 2022(---).

**12.** Accurate and fast matrix factorization for low-rank learning. Godaz Reza, Monsefi Reza, Toutounian Faezeh, Hosseini Reshad (2021)., Journal of Mathematical Modeling, xx(xx).

**13.** New segmentation and feature extraction algorithm for classification of white blood cells in peripheral smear images. Tavakoli Sajad, Qaffari Ali, Mousavi Zahra, Hosseini Reshad (2021)., Scientific Reports, 11(1).

**14.** Multi-source domain adaptation-based low-rank representation and correlation alignment. Madadi Yeganeh, Seydi Vahid, Hosseini Reshad (2021)., International Journal of Computers and Applications, 00(00), 1-8.

**15.** A New EM Algorithm for Flexibly Tied GMMs with Large Number of Components. Asheri Hadi, Hosseini Reshad, Nadjar Araabi Babak (2021)., PATTERN RECOGNITION, 114(---), 107836.

**16.** Early screening of autism spectrum disorder using cry features. Khozaei Aida ,, Moradisabzevar Manouchehr, Hosseini Reshad, Pouretemad Hamidreza, Eskandari Bahareh (2020)., PLoS One, 15(12), e0241690.

**17.** Novel Parameterization for Gauss–Newton Methods in 3-D Pose Graph Optimization. Nasiri Seyed-Mahdi, Hosseini Reshad, Moradisabzevar Manouchehr (2020)., IEEE TRANSACTIONS ON ROBOTICS, ---(---), 1-18.

**18.** Deep visual unsupervised domain adaptation for classification tasks: a survey. Madadi Yeganeh, Seydi Vahid, Nasrollahi Kamal, Hosseini Reshad, Moeslund Thomas (2020)., IET Image Processing, --(--).

**19.** Clustering subspace generalization to obtain faster reinforcement learning. Hashemzadeh Maryam, Hosseini Reshad, Nili Ahmad Abadi Majid (2019)., EVOLVING SYSTEMS, 10(1).

**20.** An alternative to EM for Gaussian mixture models: batch and stochastic Riemannian optimization. Hosseini Reshad, Sra Suvrit (2019)., MATHEMATICAL PROGRAMMING, 179(1).

**21.** Exploiting Generalization in the Subspaces for Faster Model-Based Reinforcement Learning... Hashemzadeh Maryam, Hosseini Reshad, Nili Ahmad Abadi Majid (2018)., IEEE TRANSACTIONS ON NEURAL NETWORKS AND LEARNING SYSTEMS, --(--).

**22.** Inference and mixture modeling with the Elliptical Gamma Distribution. Hosseini Reshad, Sra Suvrit, Theis Lucas, Bethge Matthias (2016)., COMPUTATIONAL STATISTICS & DATA ANALYSIS, 101(1), 29-43.

**23.** Expected Logarithm of Central Quadratic Form and Its Use in KL-Divergence of Some Distributions. Habib Zadeh Pourya, Hosseini Reshad (2016)., ENTROPY, 18(8), 278.

**24.** Improved Bayesian Information Criterion for Mixture Model Selection. Mehrjou Arash, Hosseini Reshad, Nadjar Araabi Babak (2015)., PATTERN RECOGNITION LETTERS, 69(1), 22-27.

**25.** Conic geometric optimisation on the manifold of positive definite matrices. Sra Suvrit, Hosseini Reshad (2015)., SIAM JOURNAL ON OPTIMIZATION, xx(xx).

**26.** Mixtures of Conditional Gaussian Scale Mixtures Applied to Multiscale Image Representations. Theis Lucas, Hosseini Reshad, Bethge Matthias (2012)., PLoS One, 7(7), e39857.

**27.** Gravitational Lensing Accuracy Testing 2010 (GREAT10) Challenge Handbook. Kitching Thomas, Amara Adam, Gill mandeep, Harmeling Stefan, Heymans Catherine, Massey Richard, Rowe Barnaby, Schrabback Tim, Voigt Lisa, Balan Sreekumar T., Bernstein Gary, Bethge Matthias, Bridle Sarah, Courbin Frederic, Gentile Marc, Heavens Alan, Hirsch Michael, Hosseini Reshad (2011)., Annals of Applied Statistics, 5(3), 2231-2263.

**28.** Lower bounds on the redundancy of natural images. Hosseini Reshad, Sinz Fabian, Bethge Matthias (2010)., VISION RESEARCH, 50(22), 2213-2222.

**29.** Results of the GREAT08 Challenge★: an image analysis competition for cosmological lensing. Bridle Sarah, Balan Sreekumar T., Bethge Matthias, Gentile Marc, Harmeling Stefan, Heymans Catherine, Hirsch Michael, Hosseini Reshad, Jarvis Mike, Kirk Donnacha, Kitching Thomas, Kuijken Konrad (2010)., MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, 405(--), no-no.

***Books***

**1.** Handbook of Variational Methods for Nonlinear Geometric Data. Hosseini Reshad, Sra Suvrit (2020).

**2.** Algorithmic Advances in Riemannian Geometry and Applications. Sra Suvrit, Hosseini Reshad (2016).

***Conferences***

**1.** Adversarial Robustness Evaluation with Separation Index. Kaviani baghbadorani Bahare, Hasanebrahimi Afsaneh, Kalhor Ahmad, Hosseini Reshad (2023)., 2023 13th International Conference on Computer and Knowledge Engineering (ICCKE), 1-2 November, Mashhad, Iran.

**2.** Density estimation helps adversarial robustness. Hasanebrahimi Afsaneh, Kaviani baghbadorani Bahare, Hosseini Reshad, Kalhor Ahmad (2023)., 2023 13th International Conference on Computer and Knowledge Engineering (ICCKE), 1 November, Mashhad, IRAN.

**3.** Predicting the neural response of the primary visual cortex (v1) using deep learning approach. Abdi Dehsorkh Sadjad, Hosseini Reshad (2023)., 28th International Computer Science Conference, Computer Society of Iran, 25-26 January, Tehran, IRAN.

**4.** ParsiNorm: A Persian Toolkit for Speech Processing Normalization. Oji Romina, Razavi Seyede Fateme, Abdi Dehsorkh Sadjad, Hariri Alireza, Asheri Hadi, Hosseini Reshad (2021)., International Conference on Signal Processing and Intelligent Systems, 29-30 December, Tehran, Iran.

**5.** Vector Transport Free Riemannian LBFGS for Optimization on Symmetric Positive Definite Matrix Manifolds. Godaz Reza, Ghojogh Benyamin, Hosseini Reshad, Monsefi Reza, Karray Fakhri, Crowley Mark (2021)., Asian Conference on Machine Learning, 17-19 November, Beijing, China.

**6.** Active Transfer Learning for Persian Offline Signature Verification. Younesian Taraneh, Massoudnia Saeed, Hosseini Reshad, Nadjar Araabi Babak (2019)., 2019 4th International Conference on Pattern Recognition and Image Analysis (IPRIA), 6-7 March, Tehran, Iran.

**7.** Power Line Detection and Tracking Using Hough Transform and Particle Filter. Nasseri Mohammad Hosseini, Moradisabzevar Manouchehr, Nasiri Seyd Mehdi, Hosseini Reshad (2018)., RSI International Conference on Robotics and Mechatronics (ICRoM 2018), 23-25 October, Tehran, Iran.

**8.** A Linear Least Square Initialization Method for 3D Pose Graph Optimization Problem. Nasiri Seyd Mehdi, Moradisabzevar Manouchehr, Hosseini Reshad (2018)., 2018 IEEE International Conference on Robotics and Automation (ICRA), 21-25 May, Brisbane , Australia.

**9.** Geometric Mean Metric Learning. Habib Zadeh Pourya, Hosseini Reshad, Sra Suvrit (2016)., 33rd International Conference on Machine Learning, 19-24 June, New York, United States.

**10.** Validating psychophysics experiments using EMPATH model for investigating holistic nature of facial expression recognition. Mirzaei Akbar, Hosseini Reshad (2016)., International Conference on Computer Engineering & IT, 1-3 June, Tehran, Iran.

**11.** Increasing the Learning Speed using the estimated model. Hashemzadeh Maryam, Hosseini Reshad, Nili Ahmad Abadi Majid (2016)., 21st International CSI Computer Conference, 8-10 March, Tehran, Iran.

**12.** Matrix Manifold Optimization for Gaussian Mixtures. Hosseini Reshad, Sra Suvrit (2015)., Neural Information Processing Systems, 7-12 December, Montreal, Canada.

**13.** K-means++ for Mixtures of von Mises-Fisher Distributions. Mash'al Mohamadreza, Hosseini Reshad (2015)., Information and Knowledge Technology (IKT), 2015 7th Conference on, 26-28 May, Urmia, Iran.

**14.** Mixture of ICAs model for natural images solved by manifold optimization method. Mehrjou Arash, Hosseini Reshad, Nadjar Araabi Babak (2015)., Information and Knowledge Technology (IKT), 2015 7th Conference on, 26-28 May, Urmia, Iran.

**15.** Separation of multiplicative image components by Bayesian independent component analysis. Mehrjou Arash, Nadjar Araabi Babak, Hosseini Reshad (2015)., Pattern Recognition and Image Analysis (IPRIA), 2015 2nd International Conference on, 31 January, Rasht, Iran.

**16.** Data modeling with the elliptical gamma distribution. Sra Suvrit, Hosseini Reshad, Theis Lucas, Bethge Matthias (2015)., The 18th International Conference on Artificial Intelligence and Statistics, 11 January, San Diego, United States Of America.

**17.** Geometric optimisation on positive deﬁnite matrices with application to elliptically contoured distributions. Sra Suvrit, Hosseini Reshad (2013)., Neural Information Processing Systems, 5-8 December, United States Of America.

**HONORS and AWARDS**

**ACADEMIC POSITIONS**

**COURSES OFFERED**

**Deep learning with application in machine vision and audio processing

Intelligent Systems

Deep learning with application in machine vision and audio processing

Advanced Optimization

Intelligent Systems

Deep learning with application in machine vision and audio processing

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Machine Vision

Deep learning with application in machine vision and audio processing

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**LABORATORIES**

**Computational Audio-Vision**