Ehsan Hosseini-Asl

Personal Data

email: ehsan.hosseiniasl@gmail.com
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Education

2012-2016 PhD in Electrical and Computer Engineering
University of Louisville, USA
Research: Machine Learning/Deep Learning
Dissertation: Sparse Feature Learning for Image Analysis in Segmentation, Classification and Disease Diagnosis
Advisor: Dr. Ayman El-Baz

Research Experience

March 2017-present | *Salesforce AI Research, San Francisco Bay Area*
Senior Research Scientist - Deep learning/Machine learning/NLP/Vision

Selected Conference papers

2022 - **Ehsan Hosseini-Asl**, Wenhao Liu, Caimin Xiong, "A Generative Language Model For Few-Shot Aspect-Based Sentiment Analysis", Findings of NAACL, 2022

2021 - Tianxing He, B. MacCann, Caiming Xiong, **E. Hosseini-Asl**, "Joint Energy-based Model Training for Better Calibrated Natural Language Understanding Models", *EACL*, 2021

2020 -**E. Hosseini-Asl**, B. MacCann, CS. Wu, S. Yavuz, R. Socher, "A Simple Language Model For Task Oriented Dialogue", **NeurIPS (Spotlight)**, 2020

2019 - **E. Hosseini-Asl**, Y. Zhou, C. Xiong, R. Socher, "Augmented Cyclic Adversarial Learning for Low Resource Domain Adaptation", ICLR 2019
- CS. Wu, A. Madotto, **E. Hosseini-Asl**, , C. Xiong, R. Socher, P. Fung, "Transferable Multi-Domain State Generator for Task-Oriented Dialogue Systems", ACL 2019, **Outstaing Paper Award**, 2019

2018 - **E. Hosseini-Asl**, Y. Zhou, C. Xiong, R. Socher, "A Multi-Discriminator Cyclegan for Unsupervised Non-parallel Speech Domain Adaptation", INTERSPEECH 2018
- E. Nouri, **E. Hosseini-Asl**, "Toward Scalable Neural Dialogue State Tracking", NeurIPS 2018, 2nd Conversational AI worshop, 2018

Selected Journals

2018 **E. Hosseini-Asl**, M., Ghazal, A., Mahmoud, A., Aslantas, A.M., Shalaby, M.F., Casanova, G.N., Barnes, G., Gimel'farb, R., Keynton and A., El-Baz, "Alzheimer's disease diagnostics by a 3D deeply supervised adaptable convolutional network." Frontiers in bioscience (Landmark edition), 23, p.584., 2018

2015 **E. Hosseini-Asl**, J. M. Zurada, O. Nasraoui, "Deep Learning of Part-based Representation of Data Using Sparse Autoencoders with Nonnegativity Constraints", Neural Networks and Learning Systems, IEEE Trans. on, vol.PP, no.99, pp.1-13, 2015.
E. Hosseini-Asl, J. M. Zurada, Georgy Gimel'farb, and A. El-Baz, "3D Lung Segmentation Using Incremental Constrained Nonnegative Matrix Factorization," Biomedical Engineering, IEEE Trans. on, vol.PP, no.99, pp.1-1, 2015.

Honors and Awards

2020 NeurIPS 2020 spotlight paper
2019 ACL 2019 Outstanding Paper Award
Best Paper Award (cross-submission), ACL workshop on "NLP for Conversational AI"
2016 The Best and Outstanding PhD Dissertation Award (John M. Houchens Prize)
School of Interdisciplinary and Graduate Studies, University of Louisville
2016 Graduate Dean's Citation
School of Interdisciplinary and Graduate Studies, University of Louisville
2015 Graduate Student Research grant from IEEE Computational Intelligence Society,
"Part-based Representation of Data In Deep Learning Models"

Conference Publications

2017 M. Ismail, G. Barnes, M. Nitzken, A. E. Switala, A. Shalaby, **E. Hosseini-Asl**, M. Casanova, R. Keynton A. El-Baz, "A New Deep Learning Based CAD system for Early Diagnosis of Autism Using Structural MRI", submitted to International Symposium on Biomedical Imaging, (ISBI), 2017.

2016 M. Shehata et al., "A new non-invasive approach for early classification of renal rejection types using diffusion-weighted MRI," 2016 IEEE International Conference on Image Processing (ICIP), Phoenix, AZ, 2016, pp. 136-140.
E. Hosseini-Asl, R. Keynton, and A. El-Baz, "Alzheimer's Disease Diagnosis by Adaptation of 3D Convolutional Network", Image Processing (ICIP), 2016 IEEE Int. Conference on, pp. 126-130, 2016.
I. Reda, A. Shalaby, M. Abou El-Ghar, F. Khalifa, M. Elmogy, A. Aboulfotouh, **E. Hosseini-Asl**, A. El-Baz, and R. Keynton, "A New NMF-Autoencoder Based CAD System For Early Diagnosis of Prostate Cancer", in Biomedical Imaging (ISBI), 13th IEEE Int. Symposium on, pp. 1237-1240, 2016.

2015 **E. Hosseini-Asl**, and J. M. Zurada, and Ayman El-baz, "Automatic Segmentation of Pathological Lung Using Incremental Nonnegative Matrix Factorization", in Image Processing (ICIP), 2015 IEEE Int. Conference on, Quebec City, Canada, September 27-30, pp.3111-3115, 2015.

2014 **E. Hosseini-Asl**, and J. M. Zurada, and Ayman El-baz, "Lung Segmentation Based on Nonnegative Matrix Factorization," in Image Processing (ICIP), 2014 IEEE Int. Conference on, Paris, France, Oct 2014, pp. 877-881

2009 **Hossaini-asl, E.**; Shahbazian, M. "Nonlinear dynamic system control using wavelet neural network based on sampling theory", IEEE International Conference on Systems, Man and Cybernetics, SMC 2009, Pages: 4502 – 4507, 2009