

Stanford



Ehsan Adeli

Assistant Professor (Research) of Psychiatry and Behavioral Sciences (Public Mental Health and Populations Sciences)

Bio

BIO

With a Ph.D. in artificial intelligence and computer vision and postgraduate training in biomedical imaging & computational neuroscience, I solve critical problems in healthcare and neuroscience.

My research group focuses on developing Translational Artificial Intelligence (AI) algorithms in medicine and mental health. My work involves the automatic analysis of human activities and behaviors from videos, connecting how humans perform actions to the brain by analyzing magnetic resonance images (MRIs). By exploring explainable machine learning algorithms, I aim to uncover the underlying factors of neurodegenerative and neuropsychiatric diseases and their impact on everyday life.

My research concentrates on and connects two main areas: digital humans and human neuroscience. I analyze 3D motion, actions, and behaviors using various human sensing technologies, such as video and sensory data. Additionally, I employ clinical and cognitive tests, as well as neuroimaging modalities like MRIs, to explore brain function and neural processes. Integrating these technologies to enhance clinical applications and provide deeper insights into the complexities of human behavior and brain function, my group develops world models for neuroscience.

ACADEMIC APPOINTMENTS

- Assistant Professor (Research), Psychiatry and Behavioral Sciences
- Faculty Affiliate, Institute for Human-Centered Artificial Intelligence (HAI)
- Member, Wu Tsai Human Performance Alliance
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Associate Editor, International Journal of Computer Vision (IJCV), (2023- present)
- Associate Editor, IEEE Journal of Biomedical and Health Informatics, (2020-2024)
- Associate Editor, Journal of Ambient Intelligence and Smart Environments, (2019-2024)

HONORS AND AWARDS

- 2023 Chairman's Award for Educational Excellence, Stanford School of Medicine, Department of Psychiatry and Behavioral Sciences (2023)
- Jaswa Innovator Award, Stanford School of Medicine (2022-2024)
- Faculty Professional & Leadership Award, Department of Psychiatry and Behavioral Sciences, Stanford School of Medicine (2022)
- Senior Member, IEEE (2021-Now)
- REC Fellow, Stanford University Alzheimer's Disease Research Center (ADRC) (2020-2022)

- Innovator Award 2021, Stanford University School of Medicine Department of Psychiatry & Behavioral Sciences (2020-2021)
- Young Investigator Travel Award, Medical Image Computing and Computer Assisted Interventions (MICCAI) (2018)
- NIH F32 Fellowship Award, NIAAA (2018-2019)

PROFESSIONAL EDUCATION

- Postdoctoral Research Associate, University of North Carolina at Chapel Hill , Machine Learning and Medical Imaging (2017)
- Graduate Research Scholar, Carnegie Mellon University , Computer Vision (2012)

LINKS

- My Homepage: <http://stanford.edu/~eadeli/>
- My Lab Website (STAI Lab): <https://stai.stanford.edu/>
- Computational Neuroscience Lab: <https://cnslab.stanford.edu>
- Stanford Vision and Learning Lab: <https://svl.stanford.edu>
- Cognitive Aging Lab: <https://cogtlab.com>
- Stanford AGILE Consortium: <https://frailty.stanford.edu/>
- Stanford Partnership in AI-Assisted Care: <https://aicare.stanford.edu>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My research group focuses on developing Translational Artificial Intelligence (AI) algorithms in medicine and mental health, leveraging recent advancements in AI, computer vision, ambient intelligence, and computational neuroscience. My work involves the automatic analysis of human activities and behaviors from videos, connecting how humans perform actions to the brain by analyzing magnetic resonance images (MRIs). By exploring explainable machine learning algorithms, I aim to uncover the underlying factors of neurodegenerative and neuropsychiatric diseases and their impact on everyday life.

My research concentrates on and connects two main areas: digital humans and human neuroscience. I analyze 3D motion, actions, and behaviors using various human sensing technologies, such as video and sensory data. Additionally, I employ clinical and cognitive tests, as well as neuroimaging modalities like MRIs, to explore brain function and neural processes. Integrating these technologies to enhance clinical applications and provide deeper insights into the complexities of human behavior and brain function, my group develops world models for neuroscience.

Teaching

COURSES

2023-24

- AI-Assisted Care: CS 337, MED 277 (Aut)
- Deep Learning for Computer Vision: CS 231N (Spr)
- Machine Learning for Neuroimaging: BIOS 227, PSYC 121, PSYC 221 (Aut)

2022-23

- AI-Assisted Care: MED 277 (Aut)
- Artificial Intelligence in Medicine and Healthcare Ventures: MED 180 (Spr)
- Artificial Intelligence in Medicine and Healthcare Ventures: PSYC 180 (Spr)
- Current Topics in Machine Learning for Neuroimaging: PSYC 121 (Aut)
- Current Topics in Machine Learning for Neuroimaging: PSYC 221 (Aut)

2021-22

- AI-Assisted Care: CS 337, MED 277 (Aut)

2020-21

- Artificial Intelligence in Medicine and Healthcare Ventures: MED 18SI (Spr)

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

YoungJoong Kwon, Alan Wang

Postdoctoral Research Mentor

Changan Chen, Narayan Schuetz

Publications

PUBLICATIONS

- **Vision-based estimation of fatigue and engagement in cognitive training sessions.** *Artificial intelligence in medicine*
Wang, Y., Turnbull, A., Xu, Y., Heffner, K., Lin, F. V., Adeli, E.
2024; 154: 102923
- **Federated learning with knowledge distillation for multi-organ segmentation with partially labeled datasets.** *Medical image analysis*
Kim, S., Park, H., Kang, M., Jin, K. H., Adeli, E., Pohl, K. M., Park, S. H.
2024; 95: 103156
- **FedNN: Federated learning on concept drift data using weight and adaptive group normalizations** *PATTERN RECOGNITION*
Kang, M., Kim, S., Jin, K., Adeli, E., Pohl, K. M., Park, S.
2024; 149
- **SCOPE: Structural Continuity Preservation for Retinal Vessel Segmentation**
Yeganeh, Y., Guevercin, G., Xiao, R., Abuzer, A., Adeli, E., Farshad, A., Navab, N., Ahmadi, S. A., Pereira, S.
SPRINGER INTERNATIONAL PUBLISHING AG.2024: 3-13
- **LSOR: Longitudinally-Consistent Self-Organized Representation Learning.** *Medical image computing and computer-assisted intervention : MICCAI ... International Conference on Medical Image Computing and Computer-Assisted Intervention*
Ouyang, J., Zhao, Q., Adeli, E., Peng, W., Zaharchuk, G., Pohl, K. M.
2023; 14220: 279-289
- **One-shot Federated Learning on Medical Data using Knowledge Distillation with Image Synthesis and Client Model Adaptation.** *Medical image computing and computer-assisted intervention : MICCAI ... International Conference on Medical Image Computing and Computer-Assisted Intervention*
Kang, M., Chikontwe, P., Kim, S., Jin, K. H., Adeli, E., Pohl, K. M., Park, S. H.
2023; 14221: 521-531
- **Generating Realistic Brain MRIs via a Conditional Diffusion Probabilistic Model.** *Medical image computing and computer-assisted intervention : MICCAI ... International Conference on Medical Image Computing and Computer-Assisted Intervention*
Peng, W., Adeli, E., Bosschieter, T., Hyun Park, S., Zhao, Q., Pohl, K. M.
2023; 14227: 14-24
- **An Explainable Geometric-Weighted Graph Attention Network for Identifying Functional Networks Associated with Gait Impairment.** *Medical image computing and computer-assisted intervention : MICCAI ... International Conference on Medical Image Computing and Computer-Assisted Intervention*
Nerrise, F., Zhao, Q., Poston, K. L., Pohl, K. M., Adeli, E.
2023; 14221: 723-733
- **An Explainable Geometric-Weighted Graph Attention Network for Identifying Functional Networks Associated with Gait Impairment.** *ArXiv*
Nerrise, F., Zhao, Q., Poston, K. L., Pohl, K. M., Adeli, E.
2023

- **CCA identifies a neurophysiological marker of adaptation capacity that is reliably linked to internal locus of control of cognition in amnestic MCI.** *GeroScience*
Peralta-Malvez, L., Turnbull, A., Anthony, M., Adeli, E., Lin, F. V.
2023
- **One-Shot Federated Learning on Medical Data Using Knowledge Distillation with Image Synthesis and Client Model Adaptation**
Kang, M., Chikontwe, P., Kim, S., Jin, K., Adeli, E., Pohl, K. M., Park, S., Greenspan, H., Madabhushi, A., Mousavi, P., Salcudean, S., Duncan, J., Syeda-Mahmood, et al
SPRINGER INTERNATIONAL PUBLISHING AG.2023: 521-531
- **Rendering Humans from Object-Occluded Monocular Videos**
Xiang, T., Sun, A., Wu, J., Adeli, E., Fei-Fei, L., IEEE
IEEE COMPUTER SOC.2023: 3216-3227
- **Transformers Pay Attention to Convolutions Leveraging Emerging Properties of ViTs by Dual Attention-Image Network**
Yeganeh, Y., Farshad, A., Weinberger, P., Ahmadi, S., Adeli, E., Navab, N., IEEE
IEEE COMPUTER SOC.2023: 2296-2307
- **Disentangling Normal Aging From Severity of Disease via Weak Supervision on Longitudinal MRI** *IEEE TRANSACTIONS ON MEDICAL IMAGING*
Ouyang, J., Zhao, Q., Adeli, E., Zaharchuk, G., Pohl, K. M.
2022; 41 (10): 2558-2569
- **Semantic instance segmentation with discriminative deep supervision for medical images.** *Medical image analysis*
Zhou, S., Nie, D., Adeli, E., Wei, Q., Ren, X., Liu, X., Zhu, E., Yin, J., Wang, Q., Shen, D.
2022; 82: 102626
- **Multiple Instance Neuroimage Transformer.** *PRedictive Intelligence in MEDicine. PRIME (Workshop)*
Singla, A., Zhao, Q., Do, D. K., Zhou, Y., Pohl, K. M., Adeli, E.
2022; 13564: 36-48
- **Bridging the Gap between Deep Learning and Hypothesis-Driven Analysis via Permutation Testing.** *PRedictive Intelligence in MEDicine. PRIME (Workshop)*
Paschali, M., Zhao, Q., Adeli, E., Pohl, K. M.
2022; 13564: 13-23
- **GaitForeMer: Self-Supervised Pre-Training of Transformers via Human Motion Forecasting for Few-Shot Gait Impairment Severity Estimation.** *Medical image computing and computer-assisted intervention : MICCAI ... International Conference on Medical Image Computing and Computer-Assisted Intervention*
Endo, M., Poston, K. L., Sullivan, E. V., Fei-Fei, L., Pohl, K. M., Adeli, E.
2022; 13438: 130-139
- **A Penalty Approach for Normalizing Feature Distributions to Build Confounder-Free Models.** *Medical image computing and computer-assisted intervention : MICCAI ... International Conference on Medical Image Computing and Computer-Assisted Intervention*
Vento, A., Zhao, Q., Paul, R., Pohl, K., Adeli, E.
2022; 13433: 387-397
- **Self-supervised learning of neighborhood embedding for longitudinal MRI.** *Medical image analysis*
Ouyang, J., Zhao, Q., Adeli, E., Zaharchuk, G., Pohl, K. M.
2022; 82: 102571
- **A Novel Explainability Approach for Technology-Driven Translational Research on Brain Aging.** *Journal of Alzheimer's disease : JAD*
Turnbull, A., Kaplan, R., Adeli, E., Lin, F. V.
2022
- **Detecting negative valence symptoms in adolescents based on longitudinal self-reports and behavioral assessments.** *Journal of affective disorders*
Paschali, M., Kiss, O., Zhao, Q., Adeli, E., Podhajsky, S., Muller-Oehring, E. M., Gotlib, I. H., Pohl, K. M., Baker, F. C.
2022
- **Rethinking Architecture Design for Tackling Data Heterogeneity in Federated Learning.** *Proceedings. IEEE Computer Society Conference on Computer Vision and Pattern Recognition*
Qu, L., Zhou, Y., Liang, P. P., Xia, Y., Wang, F., Adeli, E., Fei-Fei, L., Rubin, D.

2022; 2022: 10051-10061

- **Generative adversarial U-Net for domain-free few-shot medical diagnosis** *PATTERN RECOGNITION LETTERS*
Chen, X., Li, Y., Yao, L., Adeli, E., Zhang, Y., Wang, X.
2022; 157: 112-118
- **GaitForeMer: Self-supervised Pre-training of Transformers via Human Motion Forecasting for Few-Shot Gait Impairment Severity Estimation**
Endo, M., Poston, K. L., Sullivan, E. V., Fei-Fei, L., Pohl, K. M., Adeli, E., Wang, L., Dou, Q., Fletcher, P. T., Speidel, S., Li, S.
SPRINGER INTERNATIONAL PUBLISHING AG.2022: 130-139
- **PrivHAR: Recognizing Human Actions from Privacy-Preserving Lens**
Hinojosa, C., Marquez, M., Arguello, H., Adeli, E., Fei-Fei, L., Niebles, J., Avidan, S., Brostow, G., Cisse, M., Farinella, G. M., Hassner, T.
SPRINGER INTERNATIONAL PUBLISHING AG.2022: 314-332
- **WTM: Weighted Temporal Attention Module for Group Activity Recognition**
Yadav, S., Agrawal, P., Tiwari, K., Adeli, E., Pandey, H., Akbar, S., IEEE
IEEE.2022
- **Rethinking Architecture Design for Tackling Data Heterogeneity in Federated Learning**
Qu, L., Zhou, Y., Liang, P., Xia, Y., Wang, F., Adeli, E., Li Fei-Fei, Rubin, D., IEEE COMP SOC
IEEE COMPUTER SOC.2022: 10051-10061
- **TransDeepLab: Convolution-Free Transformer-Based DeepLab v3+for Medical Image Segmentation**
Azad, R., Heidari, M., Shariatnia, M., Aghdam, E., Karimijafarbigloo, S., Adeli, E., Merhof, D., Rekik, Adeli, E., Park, S. H., Cintas, C.
SPRINGER INTERNATIONAL PUBLISHING AG.2022: 91-102
- **Intervertebral Disc Labeling with Learning Shape Information, a Look once Approach**
Azad, R., Heidari, M., Cohen-Adad, J., Adeli, E., Merhof, D., Rekik, Adeli, E., Park, S. H., Cintas, C.
SPRINGER INTERNATIONAL PUBLISHING AG.2022: 49-59
- **Joint Graph Convolution for Analyzing Brain Structural and Functional Connectome**
Li, Y., Wei, Q., Adeli, E., Pohl, K. M., Zhao, Q., Wang, L., Dou, Q., Fletcher, P. T., Speidel, S., Li, S.
SPRINGER INTERNATIONAL PUBLISHING AG.2022: 231-240
- **Bridging the Gap Between Deep Learning and Hypothesis-Driven Analysis via Permutation Testing**
Paschali, M., Zhao, Q., Adeli, E., Pohl, K. M., Rekik, Adeli, E., Park, S. H., Cintas, C.
SPRINGER INTERNATIONAL PUBLISHING AG.2022: 13-23
- **Multiple Instance Neuroimage Transformer**
Singla, A., Zhao, Q., Do, D. K., Zhou, Y., Pohl, K. M., Adeli, E., Rekik, Adeli, E., Park, S. H., Cintas, C.
SPRINGER INTERNATIONAL PUBLISHING AG.2022: 36-48
- **A Penalty Approach for Normalizing Feature Distributions to Build Confounder-Free Models**
Vento, A., Zhao, Q., Paul, R., Pohl, K. M., Adeli, E., Wang, L., Dou, Q., Fletcher, P. T., Speidel, S., Li, S.
SPRINGER INTERNATIONAL PUBLISHING AG.2022: 387-397
- **Switching Structured Prediction for Simple and Complex Human Activity Recognition** *IEEE TRANSACTIONS ON CYBERNETICS*
Arzani, M. M., Fathy, M., Azirani, A. A., Adeli, E.
2021; 51 (12): 5859-5870
- **Multi-label, multi-domain learning identifies compounding effects of HIV and cognitive impairment.** *Medical image analysis*
Zhang, J., Zhao, Q., Adeli, E., Pfefferbaum, A., Sullivan, E. V., Paul, R., Valcour, V., Pohl, K. M.
2021; 75: 102246
- **Longitudinal Correlation Analysis for Decoding Multi-modal Brain Development.** *Medical image computing and computer-assisted intervention : MICCAI ... International Conference on Medical Image Computing and Computer-Assisted Intervention*
Zhao, Q., Adeli, E., Pohl, K. M.
2021; 12907: 400-409
- **Self-Supervised Longitudinal Neighbourhood Embedding.** *Medical image computing and computer-assisted intervention : MICCAI ... International Conference on Medical Image Computing and Computer-Assisted Intervention*

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- Ouyang, J., Zhao, Q., Adeli, E., Sullivan, E. V., Pfefferbaum, A., Zaharchuk, G., Pohl, K. M.
2021; 12902: 80-89
- **Longitudinal Pooling & Consistency Regularization to Model Disease Progression From MRIs.** *IEEE journal of biomedical and health informatics*
Ouyang, J., Zhao, Q., Sullivan, E. V., Pfefferbaum, A., Tapert, S. F., Adeli, E., Pohl, K. M.
2021; 25 (6): 2082-2092
 - **Representation Disentanglement for Multi-modal Brain MRI Analysis.** *Information processing in medical imaging : proceedings of the ... conference*
Ouyang, J., Adeli, E., Pohl, K. M., Zhao, Q., Zaharchuk, G.
2021; 12729: 321-333
 - **Going Beyond Saliency Maps: Training Deep Models to Interpret Deep Models.** *Information processing in medical imaging : proceedings of the ... conference*
Liu, Z., Adeli, E., Pohl, K. M., Zhao, Q.
2021; 12729: 71-82
 - **Multi-view representation learning and understanding** *MULTIMEDIA TOOLS AND APPLICATIONS*
Zhou, T., Zhang, Y., Thung, K., Adeli, E., Rekik, I., Zhao, Q., Zhang, C.
2021; 80 (15): 22865
 - **Longitudinal self-supervised learning.** *Medical image analysis*
Zhao, Q., Liu, Z., Adeli, E., Pohl, K. M.
2021; 71: 102051
 - **Cascaded MultiTask 3-D Fully Convolutional Networks for Pancreas Segmentation** *IEEE TRANSACTIONS ON CYBERNETICS*
Xue, J., He, K., Nie, D., Adeli, E., Shi, Z., Lee, S., Zheng, Y., Liu, X., Li, D., Shen, D.
2021; 51 (4): 2153-2165
 - **Deep End-to-End One-Class Classifier** *IEEE TRANSACTIONS ON NEURAL NETWORKS AND LEARNING SYSTEMS*
Sabokrou, M., Fathy, M., Zhao, G., Adeli, E.
2021; 32 (2): 675-84
 - **MetricUNet: Synergistic image- and voxel-level learning for precise prostate segmentation via online sampling.** *Medical image analysis*
He, K. n., Lian, C. n., Adeli, E. n., Huo, J. n., Gao, Y. n., Zhang, B. n., Zhang, J. n., Shen, D. n.
2021; 71: 102039
 - **MOMA: Multi-Object Multi-Actor Activity Parsing**
Luo, Z., Xie, W., Kapoor, S., Liang, Y., Cooper, M., Niebles, J., Adeli, E., Li Fei-Fei, Ranzato, M., Beygelzimer, A., Dauphin, Y., Liang, P. S., Vaughan, J. W.
NEURAL INFORMATION PROCESSING SYSTEMS (NIPS).2021
 - **TRiPOD: Human Trajectory and Pose Dynamics Forecasting in the Wild**
Adeli, V., Ehsanpour, M., Reid, I., Niebles, J., Savarese, S., Adeli, E., Rezatofighi, H., IEEE
IEEE.2021: 13370-13380
 - **3D CNNs with Adaptive Temporal Feature Resolutions**
Fayyaz, M., Bahrami, E., Diba, A., Noroozi, M., Adeli, E., Van Gool, L., Gall, J., IEEE COMP SOC
IEEE COMPUTER SOC.2021: 4729-4738
 - **Scalable Differential Privacy with Sparse Network Finetuning**
Luo, Z., Wu, D. J., Adeli, E., Li Fei-Fei, IEEE COMP SOC
IEEE COMPUTER SOC.2021: 5057-5066
 - **Home Action Genome: Cooperative Compositional Action Understanding**
Rai, N., Chen, H., Ji, J., Desai, R., Kozuka, K., Ishizaka, S., Adeli, E., Niebles, J., IEEE COMP SOC
IEEE COMPUTER SOC.2021: 11179-11188
 - **Is Frailty Associated with Adverse Outcomes After Orthopaedic Surgery?: A Systematic Review and Assessment of Definitions.** *JBJS reviews*
Lemos, J. L., Welch, J. M., Xiao, M., Shapiro, L. M., Adeli, E., Kamal, R. N.
1800; 9 (12)
 - **Longitudinal Correlation Analysis for Decoding Multi-modal Brain Development**
Zhao, Q., Adeli, E., Pohl, K. M., DeBruijne, M., Cattin, P. C., Cotin, S., Padoy, N., Speidel, S., Zheng, Y., Essert, C.
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SPRINGER INTERNATIONAL PUBLISHING AG.2021: 400-409

- **Metadata Normalization.** *Proceedings. IEEE Computer Society Conference on Computer Vision and Pattern Recognition*
Lu, M., Zhao, Q., Zhang, J., Pohl, K. M., Fei-Fei, L., Niebles, J. C., Adeli, E.
2021; 2021: 10912-10922
- **Self-supervised Longitudinal Neighbourhood Embedding**
Ouyang, J., Zhao, Q., Adeli, E., Sullivan, E., Pfefferbaum, A., Zaharchuk, G., Pohl, K. M., DeBruijne, M., Cattin, P. C., Cotin, S., Padoy, N., Speidel, S., Zheng, et al
SPRINGER INTERNATIONAL PUBLISHING AG.2021: 80-89
- **CoCon: Cooperative-Contrastive Learning**
Rai, N., Adeli, E., Lee, K., Gaidon, A., Niebles, J., IEEE Comp Soc
IEEE COMPUTER SOC.2021: 3379-3388
- **Representation Learning with Statistical Independence to Mitigate Bias.** *IEEE Winter Conference on Applications of Computer Vision. IEEE Winter Conference on Applications of Computer Vision*
Adeli, E., Zhao, Q., Pfefferbaum, A., Sullivan, E. V., Fei-Fei, L., Niebles, J. C., Pohl, K. M.
2021; 2021: 2512-2522
- **Quantifying Parkinson's disease motor severity under uncertainty using MDS-UPDRS videos.** *Medical image analysis*
Lu, M., Zhao, Q., Poston, K. L., Sullivan, E. V., Pfefferbaum, A., Shahid, M., Katz, M., Kouhsari, L. M., Schulman, K., Milstein, A., Niebles, J. C., Henderson, V. W., Fei-Fei, et al
2021; 73: 102179
- **Association of Heavy Drinking With Deviant Fiber Tract Development in Frontal Brain Systems in Adolescents.** *JAMA psychiatry*
Zhao, Q., Sullivan, E. V., Honnorat, N., Adeli, E., Podhajsky, S., De Bellis, M. D., Voyvodic, J., Nooner, K. B., Baker, F. C., Colrain, I. M., Tapert, S. F., Brown, S. A., Thompson, et al
2020
- **Ethical issues in using ambient intelligence in health-care settings.** *The Lancet. Digital health*
Martinez-Martin, N., Luo, Z., Kaushal, A., Adeli, E., Haque, A., Kelly, S. S., Wieten, S., Cho, M. K., Magnus, D., Fei-Fei, L., Schulman, K., Milstein, A.
2020
- **Multiview Feature Learning With Multiatlas-Based Functional Connectivity Networks for MCI Diagnosis.** *IEEE transactions on cybernetics*
Zhang, Y., Zhang, H., Adeli, E., Chen, X., Liu, M., Shen, D.
2020; PP
- **Guest Editorial: AI-Powered 3D Vision** *IET IMAGE PROCESSING*
Yang, Y., Yang, J., Adeli, E.
2020; 14 (12): 2627–29
- **Depth map artefacts reduction: a review** *IET IMAGE PROCESSING*
Ibrahim, M., Liu, Q., Khan, R., Yang, J., Adeli, E., Yang, Y.
2020; 14 (12): 2630–44
- **Socially and Contextually Aware Human Motion and Pose Forecasting** *IEEE ROBOTICS AND AUTOMATION LETTERS*
Adeli, V., Adeli, E., Reid, I., Niebles, J., Rezatofighi, H.
2020; 5 (4): 6033–40
- **Inpainting Cropped Diffusion MRI using Deep Generative Models.** *PRedictive Intelligence in MEDicine. PRIME (Workshop)*
Ayub, R., Zhao, Q., Meloy, M. J., Sullivan, E. V., Pfefferbaum, A., Adeli, E., Pohl, K. M.
2020; 12329: 91-100
- **Spatio-Temporal Graph Convolution for Resting-State fMRI Analysis.** *Medical image computing and computer-assisted intervention : MICCAI ... International Conference on Medical Image Computing and Computer-Assisted Intervention*
Gadgil, S., Zhao, Q., Pfefferbaum, A., Sullivan, E. V., Adeli, E., Pohl, K. M.
2020; 12267: 528–38
- **Vision-based Estimation of MDS-UPDRS Gait Scores for Assessing Parkinson's Disease Motor Severity.** *Medical image computing and computer-assisted intervention : MICCAI ... International Conference on Medical Image Computing and Computer-Assisted Intervention*

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- Lu, M., Poston, K., Pfefferbaum, A., Sullivan, E. V., Fei-Fei, L., Pohl, K. M., Niebles, J. C., Adeli, E.
2020; 12263: 637–47
- **Deep Learning Identifies Morphological Determinants of Sex Differences in the Pre-Adolescent Brain.** *NeuroImage*
Adeli, E., Zhao, Q., Zahr, N. M., Goldstone, A., Pfefferbaum, A., Sullivan, E. V., Pohl, K. M.
2020: 117293
 - **Segmenting the Future** *IEEE ROBOTICS AND AUTOMATION LETTERS*
Chiu, H., Adeli, E., Niebles, J.
2020; 5 (3): 4202–9
 - **Image-to-Images Translation for Multi-Task Organ Segmentation and Bone Suppression in Chest X-Ray Radiography** *IEEE TRANSACTIONS ON MEDICAL IMAGING*
Eslami, M., Tabarestani, S., Albarqouni, S., Adeli, E., Navab, N., Adjouadi, M.
2020; 39 (7): 2553–65
 - **Skeleton-based structured early activity prediction** *MULTIMEDIA TOOLS AND APPLICATIONS*
Arzani, M. M., Fathy, M., Azirani, A. A., Adeli, E.
2020
 - **Spatiotemporal Relationship Reasoning for Pedestrian Intent Prediction** *IEEE ROBOTICS AND AUTOMATION LETTERS*
Liu, B., Adeli, E., Cao, Z., Lee, K., Sheno, A., Gaidon, A., Niebles, J.
2020; 5 (2): 3485–92
 - **Mammographic mass segmentation using multichannel and multiscale fully convolutional networks** *INTERNATIONAL JOURNAL OF IMAGING SYSTEMS AND TECHNOLOGY*
Xu, S., Adeli, E., Cheng, J., Xiang, L., Li, Y., Lee, S., Shen, D.
2020
 - **Editorial: Predictive Intelligence in Biomedical and Health Informatics** *IEEE JOURNAL OF BIOMEDICAL AND HEALTH INFORMATICS*
Adeli, E., Rezik, S. H., Park, S. H., Shen, D.
2020; 24 (2): 333-335
 - **Population-guided large margin classifier for high-dimension low-sample-size problems** *PATTERN RECOGNITION*
Yin, Q., Adeli, E., Shen, L., Shen, D.
2020; 97
 - **Adversarial Cross-Domain Action Recognition with Co-Attention**
Pan, B., Cao, Z., Adeli, E., Niebles, J., Assoc Advancement Artificial Intelligence
ASSOC ADVANCEMENT ARTIFICIAL INTELLIGENCE.2020: 11815-11822
 - **Training confounder-free deep learning models for medical applications.** *Nature communications*
Zhao, Q. n., Adeli, E. n., Pohl, K. M.
2020; 11 (1): 6010
 - **Disentangling Human Dynamics for Pedestrian Locomotion Forecasting with Noisy Supervision**
Mangalam, K., Adeli, E., Lee, K., Gaidon, A., Niebles, J., IEEE Comp Soc
IEEE COMPUTER SOC.2020: 2773–82
 - **Adolescent alcohol use disrupts functional neurodevelopment in sensation seeking girls.** *Addiction biology*
Zhao, Q. n., Sullivan, E. V., M#ller-Oehring, E. M., Honnorat, N. n., Adeli, E. n., Podhajsky, S. n., Baker, F. C., Colrain, I. M., Prouty, D. n., Tapert, S. F., Brown, S. A., Meloy, M. J., Brumback, et al
2020: e12914
 - **FCN Based Label Correction for Multi-Atlas Guided Organ Segmentation.** *Neuroinformatics*
Zhu, H. n., Adeli, E. n., Shi, F. n., Shen, D. n.
2020
 - **Confounder-Aware Visualization of ConvNets.** *Machine learning in medical imaging. MLMI (Workshop)*
Zhao, Q., Adeli, E., Pfefferbaum, A., Sullivan, E. V., Pohl, K. M.
2019; 11861: 328–36

- **Data Augmentation Based on Substituting Regional MRIs Volume Scores.** *Large-Scale Annotation of Biomedical Data and Expert Label Synthesis and Hardware Aware Learning for Medical Imaging and Computer Assisted Intervention : International Workshops, LABELS 2019, HAL-MICCAI 2019, and CuRIOUS 2019, held in c...*
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