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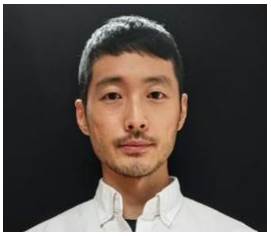

Education

PhD, Carnegie Mellon University, United States of America, 2021

Academic Appointments

Assistant Professor of Computer Science, School of Computing and Information Systems, SMU, 2022 - Present

RESEARCH

Research Interests

Human-Centered Artificial Intelligence (AI), Explainability, Fairness
Human-AI/Robot Collaboration, Healthcare, Assistive Technologies

Publications

Journal Articles [Refereed]

[J5] **M. H. Lee** and C.J. Chew. " Understanding the Effect of Counterfactual Explanations on Trust and Reliance on AI for Human-AI Collaborative Clinical Decision Making" Proceedings of the ACM on Human-Computer Interaction. CSCW (2023)

[J4] **M. H. Lee**, D. P. Siewiorek, A. Smailagic, A. Bernardino and S. B. i. Badia. “Design, Development, and Evaluation of an Interactive Personalized Robot to Monitor and Coach Post-Stroke Rehabilitation Exercises”. In User Modeling and User Adapted Interaction: 2022

[J3] **M. H. Lee**, D. P. Siewiorek, A. Smailagic, A. Bernardino and S. B. i. Badia. “Enabling AI, Robotic Coaches for Physical Rehabilitation Therapy: Iterative Design and Evaluation with Therapists and Post-Stroke Survivors”. In International Journal of Social Robotics: 2022.

[J2] A. R. Coias**, M. H. Lee**, and A. Bernardino. “A low-cost virtual coach for 2D video-based compensation assessment of upper extremity rehabilitation exercises”. Journal of NeuroEngineering & Rehabilitation, 19 (1), 1-16.

[J1] **M. H. Lee**, D. P. Siewiorek, A. Smailagic, A. Bernardino, and S. B. i. Badia. “Co-Design and Evaluation of an Intelligent Decision Support System for Stroke Rehabilitation Assessment”. In Proceedings of the ACM on Human-Computer Interaction. 4 (CSCW2):156. 2020.

Conference Proceedings

[C8] A. R. Coias**, M. H. Lee**, A. Bernardino and A. Smailagic. “Skeleton Tracking Solutions for a Low-cost Stroke Rehabilitation Support System”. IEEE-RAS-EMBS International Conference on Rehabilitation Robotics (ICORR ’23). 2023

[C7] L. Stapleton, **M. H. Lee**, D. Qing, M. Wright, A. Chouldechova, K. Holstein, Z. Wu and H. Zhu. "Imagining new futures beyond predictive systems in child welfare: A qualitative study with impacted stakeholders". inProceedings of the 2021 ACM Conference on Fairness, Accountability, and Transparency : FAccT '22. 2022.

[C6] **M. H. Lee**, D. P. Siewiorek, A. Smailagic, A. Bernardino, and S. B. i. Badia. "Towards Efficient Annotations for a Human-AI Collaborative, Clinical Decision Support System: A Case Study on Physical Stroke Rehabilitation Assessment". In Proceedings of the 27th International Conference on Intelligent User Interfaces. IUI '22.2022.

[C5] **M. H. Lee**, D. P. Siewiorek, A. Smailagic, A. Bernardino, and S. B. i. Badia. "A Human-AI Collaborative Approach for Clinical Decision Making on Rehabilitation Assessment". In Proceedings of the ACM Conference on Human Factors in Computing Systems. CHI '21.2021.

[C4] **M. H. Lee**, D. P. Siewiorek, A. Smailagic, A. Bernardino, and S. B. i. Badia. "Towards Personalized Interaction and Corrective Feedback of a Socially Assistive Robot for Post-Stroke Rehabilitation Therapy". In Proceedings of the 29th IEEE International Conference on Robot and Human Interactive Communication. RO-MAN '20. 2020.

[C3] **M. H. Lee**, D. P. Siewiorek, A. Smailagic, A. Bernardino, and S. B. i. Badia. "Interactive Hybrid Approach to Combine Machine and Human Intelligence for Personalized RehabilitationAssessment". In Proceedings of the ACM Conference on Health, Inference, and Learning. CHIL '20. 2020

[C2] **M. H. Lee**, D. P. Siewiorek, A. Smailagic, A. Bernardino, and S. B. i. Badia. "Learning to Assess the Quality of Stroke Rehabilitation Exercises". In Proceedings of the 24th International Conference on Intelligent User Interfaces. IUI '19. Marina del Ray, CA, 2019

[C1] B. Elizalde*, A. Shah*, S. Dalmia*, **M. H. Lee***, R. Badlani, A. Kumar, B. Raj, and I. Lane. "An approach for self-training audio event detectors using web data". In:2017 25th European Signal Processing Conference. EUSIPCO '17. Greece, 2017. *joint first author.

TEACHING

Interaction Design and Prototyping
Introduction to Artificial Intelligence
IS/SMT/C&L Project Experience (Research)

EXTERNAL SERVICE – PROFESSIONAL

Program Committee

- AAAI: Association for the Advancement of Artificial Intelligence (2021, 2022)
- CHI: ACM Conference on Human Factors in Computing Systems (2023, 2024)
- IJCAI: International Joint Conference on Artificial Intelligence (2023, 2024)
- IUI: ACM Intelligent User Interface (2022-2024)
- ML4H: Machine Learning for Health (2020-2023)
- ICWSM: International Conference on Web and Social Media (2020)

Organizing Committee

- ACM IUI: Intelligent User Interface (2019 – 2023)
  - Registration Chair 2023
  - Diversity and Inclusion Co-Chairs 2022
  - Student Volunteer Co-Chairs 2020
- ACM Mobile HCI Sustainability Co-Chairs (2022)
- ACM FAccT 2021 Proceedings Co-Chairs (2021)