

**LEE, Min**

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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

**Selected Publications**Selected Journal Articles [Refereed]

[J5] S.S.W. Lam, **M.H. Lee**, M. Dorosan, S. Altonji, T.H. Khoon, and W.T. Lee. "*Laryngeal cancer screening: A preliminary artificial intelligence-based framework for low-resource settings*". JMIR formative research, 2025.

[J4] **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)

[J3] **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

[J2] **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.

[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.

Selected Conference Proceedings

[C13] **M.H. Lee**, S.S.W. Lam, S.X.H. Liew, M. Dorosan, N. Graves, J. Karlstrom, T.H. Khoon, and W.T. Lee. "AI-Assisted Triage and Decision Support of Head and Neck Cancer Screening and Diagnosis in Low-Resourced Settings". In International Joint Conference on Artificial Intelligence (IJCAI), 2025.

- [C12] A. R. Coias, **M.H. Lee**, Bernardino, A., Smailagic, A., Mateus, M., Fernandes, D. and Trapola, S., 2025. "Learning frame-level classifiers for video-based real-time assessment of stroke rehabilitation exercises from weakly annotated datasets". IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2025.
- [C11] **M.H. Lee** and M. Z. Tok. "Towards Uncertainty Aware Task Delegation and Human-AI Collaborative Decision-Making". In ACM Conference on Fairness, Accountability, and Transparency (FAccT'25), 2025.
- [C10] H.Y.N. Oo, **M.H. Lee**, and J.H. Lim. "A Multimodal Fusion Model Leveraging MLP Mixer and Handcrafted Features-based Deep Learning Networks for Facial Palsy Detection". In Advances in Knowledge Discovery and Data Mining: 29th Pacific-Asia Conference on Knowledge Discovery and Data Mining, PAKDD 2025.
- [C9] **M. H. Lee**, R.B. X. Ng, S. X. Choo, and S. Thilarajah. "Interactive example-based explanations to improve health professionals' onboarding with AI for human-AI collaborative decision making". the 27th European Conference on Artificial Intelligence (ECAI 2024) including 13th Conference on Prestigious Applications of Intelligent Systems (PAIS 2024). 2024
- [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". in Proceedings 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 Rehabilitation Assessment". 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 24<sup>th</sup> 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 (2021-22, 2026)
- CHI: ACM Conference on Human Factors in Computing Systems (2023 - 2026)
- IJCAI: International Joint Conference on Artificial Intelligence (2023 - 2026)
- IUI: ACM Intelligent User Interface (2022 - 2026)
- ML4H: Machine Learning for Health (2020 - 2025)
- ICWSM: International Conference on Web and Social Media (2020)

**Organizing Committee**

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