

UMaine Artificial Intelligence

Explainable AI: Hopes and Hypes in Healthcare

Thursday, April 7th, 12:00-1:00pm EDT

The Need for Explainable AI in Healthcare

Hongfang Liu, PhD
Mayo Clinic

Dr. Hongfang Liu is professor of Biomedical Informatics at the Center for Clinical and Translational Sciences at Mayo Clinic. Dr. Liu's primary research focus is to facilitate the secondary use of clinical data for clinical and translational science research and health care delivery improvement using data science, artificial intelligence, and informatics approaches. Her research has been extensively funded by the National Science Foundation and the National Institutes of Health (NIH) since 2003. She is a Fellow of the American College of Medical Informatics and Deputy Editor of Health Data Science Journal.



Making AI Models Interpretable and Explainable for Medical Image Analysis

Ahmad P. Tafti, PhD
University of Southern Maine

Dr. Tafti is an Assistant Professor of Computer Science at the University of Southern Maine, where he is leading the USM HexAI Research Laboratory. Dr. Tafti received his PhD in computer science with an emphasis on artificial intelligence and 3D computer vision. He is passionate about AI and its applications in healthcare. Dr. Tafti is the 2021 SiiM Imaging Informatics Innovator awardee, Mayo Clinic Transform the Practice awardee, an NVIDIA GPU awardee, and GE Healthcare Honorable Mention awardee. To date, he has authored 45+ peer-reviewed publications. Dr. Tafti has organized numerous workshops and tutorials on intelligent health systems and has served on the program committee of 15+ conferences, symposiums, and journals in AI and Digital Health Sciences.

Explainable AI in Clinical Natural Language Processing

Yanshan Wang, PhD
University of Pittsburgh

Dr. Wang is vice chair of research and assistant professor with a primary appointment in the Department of Health Information Management, School of Health and Rehabilitation Sciences, and secondary appointments in the Intelligent Systems Program, School of Computing and Information, and the Department of Biomedical Informatics, School of Medicine, at the University of Pittsburgh. His research interests focus on artificial intelligence (AI), natural language processing (NLP) and machine learning methodologies and applications in health care. His research goal is to leverage different dimensions of data and data-driven computational approaches to meet the needs of clinicians, researchers, patients and customers. He joined Pitt in June 2021 from the Mayo Clinic where he still holds an adjunct Assistant Professor position.

