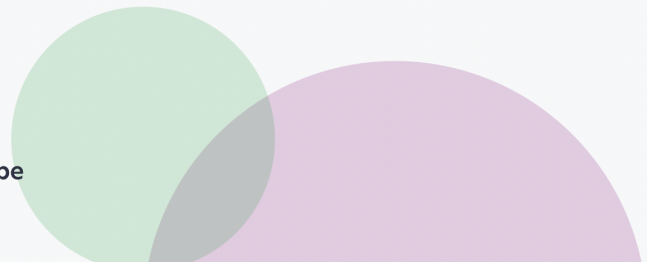


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Challenges of Developing Intelligent Critical Care Systems

Dr. Parisa Rashidi

Associate Professor

Department of Biomedical Engineering
University of Florida

Friday, November 12, 2021

12:00 PM Eastern Time

(details are listed in the next page)

Zoom : <https://pitt.zoom.us/j/9630638972>

Abstract: Today's ICUs face many critical barriers to achieving continuous monitoring of the patients. First, essential information such as functional status is not captured automatically but repetitively assessed by overburdened ICU nurses. Second, critical severity-of-illness scores for predicting patient trajectory are sparsely assessed and have limited accuracy, leading to alarm fatigue and missing early interventions.

This presentation will explore solutions to these issues using AI techniques customized to the critical care setting. More specifically, this presentation will examine how pervasive sensing technology and machine learning can be used for monitoring patients and their environment in the ICU. Additionally, this presentation will explore how AI techniques can analyze the wealth of data in the ICU, including clinical data, lab results, and physiological signals. It will discuss the issues and challenges in this space and point to future opportunities for novel research directions.

Biosketch: Dr. Parisa Rashidi received her Ph.D. in computer science with an emphasis on machine learning. She is currently an associate professor at the J. Crayton Pruitt Family Department of Biomedical Engineering (BME) at the University of Florida (UF). She is also affiliated with the Electrical & Computer Engineering (ECE) and Computer & Information Science & Engineering (CISE) departments. She is the director of the "Intelligent Health Lab" (i-Heal), and the co-director of the Intelligent Critical Care Center (IC³). Her research aims to bridge the gap between machine learning and patient care.

Dr. Rashidi is a National Science Foundation (NSF) CAREER awardee, the National Institute of Health (NIH) Trail Blazer Awardee, Herbert Wertheim College of Engineering Assistant Professor Excellence Awardee, and a recipient of the UF term professorship. She is also a recipient of UF's Provost excellence award for assistant professors; with more than 500 tenure-track assistant professors at UF, Dr. Rashidi is one of only 10 to receive this award. She was invited by the National Academy of Engineering (NAE) as one of only 38 outstanding US engineers under 45 to participate in the 2017 EU-US Frontiers of Engineering (FOE) Meeting. To date, she has authored 120+ peer-reviewed publications. She has chaired six workshops and symposiums on intelligent health systems and has served on the program committee of 20+ conferences. Dr. Rashidi's research has been supported by local, state, and federal grants, including awards from the National Institutes of Health (NIBIB, NCI, and NIGMS) and the National Science Foundation (NSF).

Zoom Information

Please click the link below to join the webinar:

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