

# EAI HealthyIoT 2021

## 8<sup>th</sup> EAI International Conference on IoT Technologies for HealthCare

**PLEASE KEEP CHECKING WEBSITE FOR MORE UPDATES**

Note: The conference starts at 9am (Portugal time GMT) on 26<sup>th</sup> November, 2021

09:00 – 09:10 Welcome Message by EAI	
09:10 – 09:15 Welcome Message by the General Chair Prof. Susanna Spinsante (Università Politecnica delle Marche, Italy)	
09:15 – 11:10 Morning Session Chairs: Prof. Rossitza Goleva (New Bulgarian University, Bulgari), Prof. Susanna Spinsante (Università Politecnica delle Marche, Italy)	
09:15 – 09:35	Non-intrusive and privacy preserving activity recognition system for infants exploiting smart toys
09:35 – 09:55	Co-design the acceptability of Wearables in the Healthcare field
09:55 – 10:15	Patients' behavior monitoring inside a hospital garden: comparison between RADAR and GPS solutions
10:15 – 10:30 Coffee Break	
Chair: Dr. Hugo Peixoto (University of Minho, Portugal)	
10:30 – 10:50	IoT-Enabled Analysis of Subjective Sound Quality Perception Based on Out-of-Lab Physiological Measurements
10:50-11:10	CS-Based Decomposition of Acoustic Stimuli-Driven GSR Peaks Sensed by an IoT-Enabled Wearable Device
11:10 – 12:20 Wearables in Healthcare Session	
11:30-11:50	DIY Wrist-Worn Device for Physiological Monitoring: Metrological Evaluation at Different Band Tightening Levels
11:50-12:10	Crime Pattern Analysis and Prediction Using Machine Learning
12:10-12:20	Closing remarks on the Morning Session
12:20 – 14:00	

Lunch	
14:00 – 16:45 Afternoon Session Chairs: Prof. Bruno Silva (Universidade da Beira Interior, Portugal), Prof. Susanna Spinsante (Università Politecnica delle Marche, Italy)	
14:00 – 14:20	A Comparative Study of Data Mining Techniques applied to Renal-Cell Carcinomas
14:20 – 14:40	Predicting Diabetes Disease in the Female Adult Population, using Data Mining
14:40-15:00	Not Just A Matter of Accuracy: A fNIRS Pilot Study into Discrepancy between Sleep Data and Subjective Sleep Experience in Quantified-Self Sleep Tracking
15:00-15:20	Evaluations on Pending Regulation on Ethical Review Measures for Biomedical Research Involving Human Subjects and Artificial Intelligence
15:20-15:40	GAIToe: Gait Analysis Utilizing an IMU for Toe Walking Detection and Intervention
15:40 – 15:55 Coffee Break	
15:55 – 16:35 AI-assisted Solutions for COVID-19 and Biomedical Applications in Smart Cities Session	
15:55-16:15	Correlation between SPO2 and Heart Rate in Sleep Apnea Detection
16:15-16:35	Implementation of Android-based Smart Speakers in a Smart Home for Dementia Patients
16:35 – 16:45 Closing Message by the General Chair Prof. Susanna Spinsante (Università Politecnica delle Marche, Italy) Best Paper Announcement	