



ICTS4eHealth 2022

2nd edition of the IEEE Conference on ICT Solutions for eHealth

The program of ISCC 2022 is at the link below:

<https://iscc2022.unipi.gr/program2022.php>

Final Program of ICTS4eHealth

(all times are reported with reference to the Greece time zone)

Day 1 – Thursday, June 30

Physically-presented papers:

11.30 – 13.30

Session 1: **Signals** - (in presence)

Session Chair: **Prof. Antonio Celesti**, *University of Messina - Italy*

Welcome to ICST4eHealth 2022

<i>Linda Senigagliesi</i>	Physiological Parameters Extraction by Accelerometric Signal Analysis During Sleep
<i>Ho Min Kang</i>	Sensor Fusion and Device Collaboration Based Smart Plug Hub Architecture for Precise Identification of ADL in Real-Time
<i>Gianluca Amprimo</i>	Automatic Detector of Gait Alterations Using RGB-D Sensor and Supervised Classifiers: A Preliminary Study
<i>Diogo Machado</i>	Impact of the Glycaemic Sampling Method in Diabetes Data-Mining

14.30 – 16.00

Session 2: Algorithms and systems for eHealth - (in presence)

Session Chair: Dr. Linda Senigagliesi, Università Politecnica delle Marche - Italy

<i>Maurizio Schmid</i>	A Data-Based System for the Optimization of Emergency Medical Services Allocation in Rural Countries
<i>Andreia Pinto</i>	Improving the Lifestyle Behavior of Type 2 Diabetes Mellitus Patients Using a Mobile Application
<i>Antonio Celesti</i>	A NLP-Based Approach to Improve Speech Recognition Services for People with Speech Disorders

16.30 – 18.00

Session 3: Systems for eHealth – 1 – (in presence)

Session Chair: Prof. Andreia Pinto, University of Porto - Portugal

<i>Stefano Silvestri</i>	Cyber Threat Analysis Using Natural Language Processing for a Secure Healthcare System
<i>Gianluca Amprimo</i>	Telerehabilitation of Cognitive, Motor and Sleep Disorders in Neurological Pathologies: The REHOME Project
<i>Eftychia Lakka</i> (online presentation)	Incident Handling for Healthcare Organizations and Supply-Chains

Day 2: Friday, July 1
Online-presented papers:

8.45 – 9.45

Keynote I (joint with ISCC)

Prof. Marylin Wolf: *Co-Design for Edge Intelligence: Perception, Control, Computing*

10.00 – 11.30

Session 4: Systems for eHealth – 2 – (online)

Session Chair: Prof. Rui Jesus, University of Aveiro - Portugal

<i>Sayan Kumar Ray</i>	An Emergency Response System to Support Early-Stage Dementia Patient
<i>Sowmya Rasipuram</i>	Multimodal Depression Detection Using Task-Oriented Transformer-Based Embedding
<i>Aneesh Bhattacharya</i>	CoviFL: Edge-Assisted Federated Learning for Remote COVID-19 Detection in an AIoMT Framework - Aneesh Bhattacharya

12.00 – 13.30

Session 5: Signal and image processing – (online)

Session Chair: Dr. Muhammad Salman Haleem, University of Warwick, United Kingdom

<i>Fabio Persia</i>	A Smart Ecosystem to Improve Patient Monitoring Using Wearables, Intelligent Agents, Complex Event Processing and Image Processing
<i>Rui Jesus</i>	Vendor Neutral Cloud Platform for 4D Digital Pathology
<i>Benedetta Bolis</i>	GRETA: erGonomic stREss Tracking pAd

14.30 – 15.30

Keynote II (joint with ISCC)

Prof. Helen D. Karatza: Leveraging Cloud, Fog and Mist Computing for Time-Critical Applications: Resource Allocation and Scheduling Challenges (P)

16.00 – 17.30

Session 6: Signal processing – (online)

Session Chair: Dr. Davide Piaggio, University of Warwick, United Kingdom

<i>Ernesto Tarantino</i>	An Evolution-Based Machine Learning Approach for Inducing Glucose Prediction Models
<i>Argyro Mavrogiorgou</i>	A Comparative Study of ML Algorithms for Scenario-Agnostic Predictions in Healthcare
<i>Muhammad Salman Haleem</i>	A Deep Learning Based ECG Segmentation Tool for Detection of ECG Beat Parameters
	Best paper announcement
	Conclusions