ICTS4eHealth 2024
4th edition of the IEEE Conference on ICT Solutions for eHealth

The program of ISCC 2024 is at the link below:
https://2024.ieee-iscc.org/program/

Program of ICTS4eHealth
(All times are reported with reference to the Paris time zone)

Day 1 – **Thursday, June 27**

09.00 – 10.00
ICTS4eHealth Keynote
Session Chair: **Giovanna Sannino ICAR-CNR, Italy**

Prof. Hani Hagras: *Towards Explainable Artificial Intelligence enabled Effective Health Care*
Lecture Hall (Amphi): 0260

10.30 – 11.30
Keynote (joint with ISCC)

Prof. Shay Gueron: *Cryptographic Acceleration*
Lecture Hall (Amphi): 0260

12.00 – 13.00
Session 1: **Advanced Models for eHealth**
Session Chair: **Antonio Celesti, University of Messina, Italy**
room: 1409

Welcome to ICTS4eHealth 2024	
Itamir de Morais Barroca FIlho	Natural Language Processing in the Context of Cancer: A Systematic Review
Youness Amadiaz	Decision Support for Patient Transport Efficiency Based on V2X Communications in a Healthcare System

14.30 – 16.30
Session 2: **Computer Vision and Multimedia Analysis**
Session Chair: **Itamir de Morais Barroca FIlho, Federal University of Rio Grande Do Norte, Brazil**
room: 1409

Junaid Khan	Innovative Video-Based Approach for Epileptic Seizure Detection in Mice
Davide Ciraolo	Comparing CNN and ViT in Both Centralised and Federated Learning Scenarios: A Pneumonia Diagnosis Case Study
Naeem Ullah	Bridging Clinical Gaps: Multi-Dataset Integration for Reliable Multi-Class Lung Disease Classification with DeepCRINet and Occlusion Sensitivity
Bushra Jalil	Utilizing Time-Distributed Layers to Estimate Vital Parameters from Video Sequences
Antonio Celesti	Leveraging Audio Biomarkers for Enriching the Tele-Monitoring of Patients

16.30 – 17.00
Coffee Break

17.00 – 18.00
Session 3: **Signal Processing for eHealth**
Session Chair: **Yu-Sheng Lin, Southern Taiwan University of Science and Technology, Taiwan**
room: 1409

Pranita Shedage	Stress Detection Using Multimodal Physiological Signals with Machine Learning from Wearable Devices
Bithi Banik	Bi-Directional Estimation of Infant Heart and Respiration Rates Using Machine Learning Algorithms
Luca Carmisciano	Investigating Functional Data Analysis for Wearable Physiological Sensor Data in Stress Evaluation

20.30
Gala Dinner

Day 2 – Friday, June 28

8.30 – 9.00
Registration

09.00 – 10.00
Keynote (joint with ISCC)

Prof. Sanjay Ranka: *Machine Learning Techniques for Data Reduction of Scientific Applications*
Lecture Hall (Amphi): 0260

10.00 – 10.30
Coffee Break

10.30 – 11.30
Keynote (joint with ISCC)

Prof. Themis Palpanas: *Scalable Vector Analytics: A Story of Twists and Turns*
Lecture Hall (Amphi): 0260

11.30 – 11.45
Break

11.45 – 13.15
Session 4: **Special Session GAIMHS:**
Generative AI for Medical and Healthcare Systems
Session Chair: **Antonio Di Marino, ICAR-CNR, Italy**
room: 3101

Eranga Bandara	WedaGPT --- Generative-AI (with Custom-Trained Meta's Llama2 LLM), Blockchain, Self Sovereign Identity, NFT and Model Card Enabled Indigenous Medicine Platform
Vincenzo Bevilacqua	Cross-Domain Super-Resolution in Medical Imaging
Hanzhi Wang	Improving High-Frequency Details in Cerebellum for Brain MRI Super-Resolution
Antonio Pilato	Generative AI and Emotional Health: Innovations with Haystack

13.13 – 14.45
Lunch Break

14.45– 16.00
Session 5: **Infrastructure Optimization for eHealth Applications**
Session Chair: **Ray B. Jones, University of Plymouth, United Kingdom**
room: 3101

Andreea Ancuta Corici	5G Wound Management System for Remote Areas
Rui Jesus	DICOM Gateway Anonymizer: A Cloud Architecture for a Scalable Research PACS
Aymen Belghith	Balancing Detection Speed and Resource Efficiency in Healthcare Vulnerability Scanning

16.45 – 17.15
Coffee Break

17.15 – 18.15
Session 6: **IoT and Edge Applications**
Session Chair: **Antonio Celesti, University of Messina, Italy**
room: 3101

Yu-Sheng Lin	HandyCare: A Digital Approach for Home-Based Hand Edema Treatment
Reda Chefira	Smart Data Imputation Techniques for Indoor Air Quality Monitoring in e-Health-Like Environments
Ray B. Jones	Remote Scoping of an Audio-Reminiscence Tool for Care Home Residents
	Best Paper announcement **Conclusions**