

5th edition of the IEEE Conference on ICT Solutions for eHealth Bologna (Italy)

> The tentative program of ISCC 2025 is at the link below: <u>https://ieee-iscc.computer.org/2025/program/</u>

Tentative Program of ICTS4eHealth

(All times are reported with reference to the Italian time zone)

Day 1 – Wednesday, July 02

08.30 – 09.30 Registration

09.30 - 11.00

Session 1: Image Analysis Session Chair: Antonio Celesti and Giovanna Sannino

Welcome to ICTS4eHealth 2025

Sibusiso Jeremiah Mwali	Using OpenPose for Enhancing CPR Training: a Data-Driven Approach
Bushra Jalil	A Preliminary Study on Attention Unet Based Skin Segmentation and Vital
	Parameters Monitoring for Enhanced Diver Safety
Martina Russo	Deep Learning-Based Classification for Circulating Tumor Cells
Anirudh Shankar	Automated Breast Cancer Detection and Segmentation Using Image Processing Techniques

11.00 – 11.30 Coffee Break

11.30 – 13.00 Session 2: eXplainable Artificial Intelligence for Medical and Healthcare Systems Session Chair: Antonio Di Marino and Vincenzo Bevilacqua

Naeem Ullah	Enhancing AI Explainability and Performance in Pulmonary Condition Classification with Data Segmentation and Augmentation
Tamer ElBatt	Towards Automated CVD Diagnosis: Deep Learning-Based ECG Feature
	Extraction
Muhammad Hassan	Enhancing Plankton Classification with Multimodal Learning: Combining
	InceptionResNetV2 and Handcrafted Features with Explainability
Antonio Pilato	Visual Question Answering and XAI: Multimodal Approach for Automatic
	Diagnosis from Lung Radiographs

13.00 – 14.00 Lunch

14.00 - 15.30

Session 3: mHealth Session Chair: Marta Campos Ferreira and Armando Ruggeri

Elisa Salatti	eHealth and GDPR: Designing a System for People with ASD to Manage Anxiety Accessing ENT Visits
Molka Gharbaoui	Next-Generation Healthcare: a Secure and Voice-Driven App for Seamless
	Patient Engagement
Ademola Adekoyejo Plumptre	A Gamified Approach to Training Caregivers of Stroke Survivors
Antonio Celesti	Analysis on Parameters Influencing Non-Immersive Virtual Reality-Based Tele-
	Rehabilitation in Parkinson's Disease: an Exploratory Study

15.30 – 16.00 Coffee Break

16.00 – 18.00 Session 4: **Machine Learning** Session Chair: **João Manuel Ribeiro da Silva Tavares and Ilaria Basile**

Antonio Celesti	Deep Learning in Multiomics Sciences: Where We are, Emerging Topics, and Future Challenges
Ahmad Lotfi	Intelligent Gait-Based Access Control System
Patrick Sello	Federated and Split Learning with Frugal Labelling and Label Scarcity in
	Healthcare Datasets
Giulia Cisotto	Machine Learning Based Assessment of Cognitive Performance Under Sleep
	Deprivation
Hiba Akli	A Secure and Privacy-Preserving Blockchain-Based Framework for Fraud-
	Resilient E-Health Systems
Armando Ruggeri	Deep Learning Approaches to Enhance COVID-19 Detection

19:45 Welcome Cocktail

Day 2: Thursday, July 03

08.30 – 09.00 Registration

09.00 – 10.30 ISCC Keynote

Prof. TBA *TBA*

TBA

10.30 – 11.00 Coffee Break

11.00 - 12.00

Session 5: Non-contact Medical Diagnostics Session Chair: Dr. Vijayalakshmi Ahanathapillai

Antonio Nocera	Respiration Monitoring Through Depth Camera in Moving Scenarios
Frank Conway	A Biopsy / Non-Biopsy Approach to Voice Disorder Classification Using Deep
	Learning
Michela Raimondi	Indoor Tracking for Motion-Robust Respiration Rate Extraction with FMCW
	Radar

12.00 – 13.00 Session 6: **Generative AI for Healthcare** Session Chair: **Andrè Gurgel**

Elias Jacob de	Evaluating LLMs for Healthcare-Related Named Entity Recognition in Brazilian
Menezes-Neto	Judicial Decisions
Jean Mário Moreira	Applying Large Language Models for Summarizing Oncology Patients'
de Lima	Electronic Health Records
Andrè Gurgel	Fine-Tuning of a BERT Model for Oncology EHR Analysis in Brazilian
	Portuguese

13.00 – 14.00 Lunch

14:00 – 15:00 ICTS4eHealth Keynote

Prof. Salvador García López

Multi-modality approaches for medical support systems: where we are and where we are going

Session Chair: Giovanna Sannino

Day 2 – Thursday, July 03

15.00 – 15.30 Coffee Break

15.30 - 17.30

Session 7: Signal Processing Session Chair: Antonio Celesti and Jean Mário Moreira de Lima

Alessandro	Challenges and Opportunities in Quantum-Enhanced XAI for Medical and
Santopaolo	Healthcare Systems
Ilaria Basile	Enhancing Alzheimer's Diagnosis Through Spontaneous Speech Recognition:
	Deep Learning Approach with Data Augmentation
Darcey L C Gardiner	Quality Assurance for Home Spirometry Using Machine Learning
Giulia Cisotto	Machine Learning-Based Classification of Cognitive Workload via in-Ear EEG
Leonardo A. Marques	AI-Based Low-Cost Approach for Cardiac Anomaly Detection
	Best paper announcement

Conclusions