

Final Program

EAI HealthWear 2024

December 2-3, 2024

Isparta, Turkey (Online Conference)

Monday, December 2, 2024

09:00 AM - 09:30 AM Opening Ceremony by Assoc. Prof. Utku Kose, and Veronika Kissova

09:30 AM - 10:30 AM Keynote Speech
by Dr. Paniel Reyes Cárdenas
Care in the Age of Healthware: Rethinking Responsibility and
Connections

10:30 AM - 11:00 AM Coffee & Tea Break

11:00 AM - 12:00 PM Technical Session 1 (Author's presentations)

Chair: Assist. Prof. Hakan Yuksel

- 11:00 AM - 11:20 AM
Navigating cybersecurity challenges in healthcare: Challenges, innovations, and EU legal framework for connected medical devices (Dusko Milojevic, Maja Nisevic)
- 11:20 AM - 11:40 AM
A method for detecting key fiducial points in electrocardiographic signals for wave characterization and HRV analysis (Luna Panni, Gloria Cosoli, Lorenzo Scalise)
- 11:40 AM - 12:00 PM
A minimum routing cost algorithm based on quality of service in wireless mesh networks (Shufan Lin, Zsehong Tsai)

12:00 PM - 01:00 PM Lunch

01:00 PM - 02:00 PM Technical Session 2 (Author's presentations)

Chair: Assist. Prof. Hakan Yuksel

- 01:00 PM - 01:20 PM
Integrating artificial intelligence and cybersecurity in healthcare for the advancements of industry 5.0 (Firoz Khan, Lakshmana Kumar Ramasamy, Emad Abd Al Rahman, Amala Jayanthi)
- 01:20 PM - 01:40 PM
Enhancing remote monitoring and diagnosis of heart diseases through IoT and machine learning integration (Shrawan Kumar, Bharti Thakur)
- 01:40 PM - 02:00 PM
Digital innovation for individual approach to incorrect spine posture in adolescents "NOVA-SPINE" (Gabriele Pontillo, Claudio Catalano, Viviana Andreozzi, Luca Maresca, Sara Liguori)

Tuesday, December 3, 2024

- 09:30 AM - 10:30 AM Keynote Speech
by Prof. Jose Antonio Marmolejo
Digital Twins in Healthcare: Development Challenges
- 10:30 AM - 11:00 AM Coffee & Tea Break
- 11:00 AM - 12:00 PM Technical Session 3 (Author's presentations)
Chair: Muhammet Cagri Gencer
- 11:00 AM - 11:20 AM
A study and assessment of the importance of cybersecurity in the internet of things for healthcare wearables (Mohammed R. F. Faisal)
 - 11:20 AM - 11:40 AM
CigEst: A machine learning-based wearable device for monitoring smoking habit (Harish Kumar Rachuri, Ishna Jain, Rahul Dass, Bharghava Rajaram)
 - 11:40 AM - 12:00 PM
Leveraging mHealth and artificial intelligence for enhanced health indicators, a TwiMV framework proposal (Domínguez-Miranda, Sergio Arturo, Roman Rodriguez-Aguilar)
- 12:00 PM - 01:00 PM Lunch
- 01:00 PM - 02:00 PM Technical Session 4 (Author's presentations)
Chair: Assoc. Prof. Utku Kose
- 01:00 PM - 01:20 PM
Examining personalized explainable recommendations that support college students on stress management (Jomara Sandbulte, Mamatha Putta)
 - 01:20 PM - 01:40 PM
Hardware analysis for low-cost wearable ECG monitoring and analysis system (Shubhangi Gawali, Neena Goveas, Shashank Rana, Aditya Handur-Kulkarni, Akhil Binu)
 - 01:40 PM - 02:00 PM
Artificial intelligence-enabled smart glasses and mobile application for the visually impaired: Innovative solutions in wearable health technologies (Bekir Aksoy, Mustafa Meliksah Ozmen, Muzaffer Eylence)
- 02:00 PM - 02:15 PM Coffee & Tea Break
- 02:15 PM - 02:30 PM Closing Ceremony + Best Paper Award