

INVITED SESSION SUMMARY

Title of Session

Digitalization and Knowledge Management in Health Data Acquisition and Processing Name, Title and Affiliation of Chair:

Chair: Ralf Seepold

HTWG Konstanz (Germany), ralf.seepold@htwg-konstanz.de

Co-Chair: Juan Antonio Ortega

University of Seville (Spain), jortega@us.es

Co-Chair: **Natividad Martínez Madrid** University of Reutlingen (Germany), natividad.martinez@reutlingen-university.de

Co-Chair: **Aaron Raymond See** National Chin-Yi University of Technology (Taiwan), aaronsee@ncut.edu.tw

Details of Session (including aim and scope):

This session will show concepts, techniques, strategies and practices in digitalization and knowledge management for processing with special focus on home care and intelligent homes. The contributors will present recent advances on configuration, self-assessment and training for different application domains, like intelligent homes, home care, mobile care, health service. It includes also systems, platforms and concepts related to the mentioned topics.

The following topics are considered:

- Medical and contactless sensor data acquisition
- Sensor data post-processing (e.g. in vital sensors)
- Deep learning approaches (e.g. to support diagnosis)
- Health record knowledge-based processing
- Diagnostic support systems
- Signal classification
- Continuous non-invasive monitoring
- Smart Home services

Important deadlines (tentative)

- Submission deadline: 22 April 2025
- Notification of Acceptance: 20 May 2025
- Final paper publication files: 03 June 2025

Authors who submit and present their work will have their work published and indexed internationally by Elsevier's Procedia Computer Science (<u>http://www.journals.elsevier.com/procedia-computer-science/</u>).

Main Contributing Researchers / Research Centres (tentative, if known at this stage): Program chairs and their research groups

Prof. Dr. Ralf Seepold (HTWG Konstanz, Germany)

Prof. Dr. Juan Antonio Ortega (U Sevilla, Spain)

Prof. Dr. Natividad Martínez Madrid (Reutlingen University, Germany)

Prof. Dr. Aaron Raymond See (National Chin-Yi University of Technology, Taiwan)

Prof. Dr. Almir Badnjevic (University of Sarajevo, Bosnia and Herzegovina

Prof. Dr. Elma Zanaj (Polytechnic University of Tirana, Albania)

Prof. Dr. George E. Dafoulas (University of Thessaly, Greece)

Prof. Dr. Massimo Conti (Università Politecnica delle Marche, Italy)

Prof. Dr. Mircea Focsa (Victor Babes University of Medicine and Pharmacy, Romania)

Prof. Dr. Panagiotis Bamidis (University of Thessaloniki, Greece)

Prof. Dr. Polina Mihova (New Bulgarian University, Bulgaria)

Prof. Ph.D. I. Chorbev (Ss. Cyril and Methodius University in Skopje, North Macedonia)

Prof. Dr. Cheng-Hsin Cuang (National Sun Yat-sen University- NSYSU, Taiwan)

Prof. Dr. Tsung-Lu Michael Lee (Southern Taiwan University of Science and Technology, Taiwan)

Prof. Dr. Renann Baldovino (De La Salle University, the Philippines)

Prof. Dr. Francisco Munsayac Jr. III (Evelyn D. Ang- Institute of Biomedical Engineering and Health Technologies, the Philippines)

Website URL of Call for Papers (if any):

Conference: https://kes2025.kesinternational.org/

Email & Contact Details:

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