



International

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**

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Co-Chair: **Natividad Martínez Madrid**

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Co-Chair: **Aaron Raymond See**

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Co-Chair: **Maksym Gaiduk**

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Co-Chair: **Julian D. Echeverry-Correa**

Universidad Tecnologica de Pereira (Colombia), jde@utp.edu.co

Co-Chair: **Tsung-Lu Michael Lee**

Southern Taiwan University of Science and Technology (Taiwan), michaelee@stust.edu.tw

Details of Session (including aim and scope):

This session explores concepts, techniques, strategies, and practices in digitalization and knowledge management, with a particular emphasis on home care and intelligent home environments. The contributors will present recent advances in configuration, self-assessment, and training across various application domains, including smart homes, home care, mobile care, and health services. The session will also address systems, platforms, and conceptual frameworks relevant to these areas.

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 2026
- Notification of Acceptance: 20 May 2026
- Final paper publication files: 03 June 2026

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

<p>Main Contributing Researchers / Research Centres (tentative, if known at this stage):</p> <p>Program chairs and their research groups</p> <p>Prof. Dr. Ralf Seepold (HTWG Konstanz, Germany)</p> <p>Prof. Dr. Juan Antonio Ortega (U Sevilla, Spain)</p> <p>Prof. Dr. Natividad Martínez Madrid (Reutlingen University, Germany)</p> <p>Prof. Dr. Aaron Raymond See (National Chin-Yi University of Technology, Taiwan)</p> <p>Prof. Dr. Julian D. Echeverry-Correa, Universidad Tecnologica de Pereira, Colombia</p> <p>Prof. Dr. Almir Badnjevic (University of Sarajevo, Bosnia and Herzegovina)</p> <p>Prof. Dr. Elma Zanaj (Polytechnic University of Tirana, Albania)</p> <p>Prof. Dr. George E. Dafoulas (University of Thessaly, Greece)</p> <p>Prof. Dr. Massimo Conti (Università Politecnica delle Marche, Italy)</p> <p>Prof. Dr. Mircea Focsa (Victor Babes University of Medicine and Pharmacy, Romania)</p> <p>Prof. Dr. Panagiotis Bamidis (University of Thessaloniki, Greece)</p> <p>Prof. Dr. Polina Mihova (New Bulgarian University, Bulgaria)</p> <p>Prof. Ph.D. I. Chorbev (Ss. Cyril and Methodius University in Skopje, North Macedonia)</p> <p>Prof. Dr. Cheng-Hsin Cuang (National Sun Yat-sen University- NSYSU, Taiwan)</p> <p>Prof. Dr. Tsung-Lu Michael Lee (Southern Taiwan University of Science and Technology, Taiwan)</p> <p>Prof. Dr. Renann Baldovino (De La Salle University, the Philippines)</p> <p>Prof. Dr. Francisco Munsayac Jr. III (Evelyn D. Ang- Institute of Biomedical Engineering and Health Technologies, the Philippines)</p>
<p>Website URL of Call for Papers (if any):</p> <p>Conference: https://kes2026.kesinternational.org/</p>
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