



**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**

HTWG Konstanz (Germany) and Sechenov University (Russia), [ralf@ieee.org](mailto:ralf@ieee.org)

Co-Chair: **Massimo Conti**

Università Politecnica delle Marche (Italy), [m.conti@staff.univpm.it](mailto:m.conti@staff.univpm.it)

**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: 21 April 2022
- Notification of Acceptance: 21 May 2022
- Final paper publication files: 28 May 2022

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/>).

**Main Contributing Researchers / Research Centres (tentative, if known at this stage):**  
**t.b.d.****Website URL of Call for Papers (if any):**

Conference: <http://kes2022.kesinternational.org/>

Sessions: <http://kes2022.kesinternational.org/cms!Sdisplay.php>

**Email & Contact Details:**

Ralf Seepold, [ralf@ieee.org](mailto:ralf@ieee.org)

Massimo Conti, [m.conti@staff.univpm.it](mailto:m.conti@staff.univpm.it)