



DSD 2019

22nd Euromicro Conference on Digital System Design

Kallithea, Chalkidiki, Greece, Aug. 28th – Aug. 30th, 2019

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CONTACT INFORMATION

francesco.leporati@unipv.it
stox@ac.me



SPECIAL SESSION ON ADVANCED SYSTEMS FOR HEALTH, WELLNESS AND PERSONAL MONITORING (ASHWPA)

SPECIAL SESSION SCOPE

The Euromicro Conference on Digital System Design (DSD) addresses all aspects of (embedded, pervasive and high-performance) digital and mixed HW/SW system engineering, covering the whole design trajectory from system specification down to micro-architectures, digital circuits and VLSI implementations.

This Special Session (SS) aims at discussing recent advances in development of embedded and cyber-physical systems for health care, wellness monitoring and personal assistance for any kind of persons, either suffering from a disease or not. The recent progress in (intelligent) miniaturized sensors and actuators, powerful embedded processors, wireless communications and energy efficient design made feasible and economically justified new systems that are able to not only acquire bio-medical signals, but also to perform complex processing and classifications and related decision making, often allowing a remote monitoring or interaction with medical personnel. This enables new or better systems not only in the traditional fields like medicine and surgery, but also in those related to ageing population or to personal well-being.

This SS focuses both on the design and implementation methodologies and technologies, as well as, the advanced applications and holistic development of systems from the concept to its actual realisation and validation. Consequently, contributions from both industry and academia are welcome. Considerations of multi-disciplinary aspects implicitly included in the design of such systems are of special interest.

Please find below a not exhaustive list of topics to be covered by this session:

- cyber-physical systems for healthcare, well-being and personal (elderly, disability ...) assistance
- body-area networks, wearables, implantables and pill-size devices
- HWP applications and internet-of things
- sport s and medicine devices
- rehabilitation equipment
- system ergonomics and human-machine interfaces
- RT biomedical signal and image processing,
- biomedical instrumentation,
- systems for bioimpedance analysis and spectroscopy
- lab-on-chip
- neuromorphic chips

SUBMISSION GUIDELINES

Authors are encouraged to submit their manuscripts via EasyChair web service at web page <https://easychair.org/conferences/?conf=dsd2019>. Should an unexpected web access problem be encountered, please contact the Program Chair by email (dsd2019@easychair.org, nkonofao@csd.auth.gr). Each manuscript should include the complete paper text, all illustrations, and references. The manuscript should conform to the IEEE format: single-spaced, double column, US letter page size, 10-point size Times Roman font, up to 8 pages. In order to conduct a blind review, no indication of the authors' names should appear in the manuscript, references included.

CPS, Conference Publishing Services, publishes the (ISI indexed) DSD Proceedings, available worldwide through the IEEE Xplore Digital Library. Extended versions of selected best papers will be published in a special issue of the ISI indexed "Microprocessors and Microsystems: Embedded Hardware Design" Elsevier journal.

IMPORTANT DATES

- **Deadline for paper submission: April 21st 2019**
- **Notification of acceptance: May 31st 2019**
- **Camera ready papers: June 23rd 2019**

MORE INFORMATION (WEB PAGES)

- DSD 2019: <http://dsd-seaa2019.csd.auth.gr/>
- Euromicro: www.euromicro.org