



# DSD 2019

## 22<sup>nd</sup> Euromicro Conference on Digital System Design

Kallithea, Chalkidiki, Greece, Aug. 28<sup>th</sup> – Aug. 30<sup>th</sup>, 2019

### DSD STEERING COMMITTEE

Lech Jóźwiak (TU/e, NL) - Chairman  
Hana Kubatova (CTU Prague, CZ)  
Krzysztof Kuchcinski (U Lund, SE)  
Antonio Nuñez (IUMA/ULPGC, ES)  
Francesco Leporati (U Pavia, IT)  
Eugenio Villar (U Cantabria, ES)  
José Silva Matos (U Porto, PT)

### PROGRAM CHAIR

Nikos Konofaos (Aristotle U, GR)

### GENERAL CHAIR

Lefteris Aggelis (Aristotle U, GR)

### PUBLICATION CHAIR

Amund Skavhaug (Norwegian UST, NO)

### PUBLICITY CHAIR

Paris Kitsos (TEI of W. Greece, GR)

### SPECIAL SESSION CHAIRS

Dip Goswami (TU Eindhoven, NL) – Chair  
Arne Hamann (Bosch, DE) – Co-chair

### SPECIAL SESSION PROGRAM COMMITTEE

Marc Geilen (TU Eindhoven, NL)  
Subhabrata Roy (HERE, NL)  
Wanli Chang (Univ. York, UK)  
Ramesh S. (GM, USA)  
Sebastian Steinhorst (TUM, DE)  
Alejandro Masrur (TU Chemnitz, DE)  
Muhammad Shafique (TUW, AT)  
Chun Jason Xue (CUHK, HK)  
Soumyajit Dey (IITKgp, India)  
Damon Soudbakhsh (GMU, USA)  
Pierluigi Nuzzo (U Southern California, USA)  
Tiziano Villa (U Verona, IT)  
Michelangelo Grosso (ST-POLITO, IT)  
Alain Pegatoquet (U Cote d'Azur, FR)  
Julien DeAntoni (INRIA, FR)  
Frédéric Mallet (INRIA, FR)  
Sergiy Bogomolov (Australian N Uni, AU)  
Behnam Ghavami (S. B. U. of Kerman, IR)



## SPECIAL SESSION on Design of Cyber-Physical Systems

### SPECIAL SESSION SCOPE

This session focuses on modelling, analysis, design and deployment of cyber-physical and embedded systems. Cyber-Physical Systems (CPS) are characterized by tight coupling and interaction between computation, communication and control elements (cyber part), and physical processes such as motion, heating/cooling, vibration, wear and tear (physical part). A typical deployment of such systems uses embedded platform offering computation and communication resources. Design challenges include modelling, resource efficiency, cost effectivity, reliability, safety, security and many more.

Topics of interest include, but are not limited to, the following:

- Model-based analysis, design and synthesis of cyber-physical and embedded systems.
- Control/architecture co-design of cyber-physical systems – resource-efficiency, performance optimization, embedded control systems.
- Multi-objective optimization, system-level (co-)design approaches, trade-off analysis and design-space exploration for cyber-physical and embedded systems.
- Formal methods for cyber-physical and embedded systems – e.g., model checking, abstraction and refinement.
- Reliable and fault-tolerant design for cyber-physical and embedded systems.
- Safety, dependability, privacy and security of cyber-physical and embedded systems.
- Design, synthesis, simulation and verification of distributed and networked cyber-physical and embedded systems.

## 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](mailto:dsd2019@easychair.org), [nkonofao@csd.auth.gr](mailto: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: Date**  
**Notification of acceptance: Date**  
**Camera ready papers: Date**

## MORE INFORMATION (WEB PAGES)

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

CONTACT INFORMATION