



By CTU in Prague  
in cooperation with



#### WORKSHOP CHAIRS

HANA KUBÁTOVÁ, CTU IN PRAGUE (CZ)  
PETR FIŠER, CTU IN PRAGUE (CZ)

#### STUDENT POSTER SESSION CHAIR

JAN BĚLOHOUBEK, CTU IN PRAGUE, PRAGUE (CZ)

#### PROGRAMME COMMITTEE

P. Bernardi, Politecnico di Torino (IT)  
A. Bosio, LIRMM, Montpellier (FR)  
T. Čejka, CTU in Prague (CZ)  
G. Di Natale, LIRMM, Montpellier (FR)  
P. Fišer, CTU in Prague (CZ)  
K. Jelemenská, STU Bratislava (SK)  
P. Kitsos, TEI of Western Greece (GR)  
H. Kubátová, CTU in Prague (CZ)  
I. Levin, Tel-Aviv University (Israel)  
A. McEwan, University of Leicester (UK)  
P. Mróz, University of Zielona Gora (PL)  
M. Novotný, CTU in Prague, Prague (CZ)  
S. Racek, UWB, Pilsen, (CZ)  
E. Sanchez, Politecnico di Torino (IT)  
J. Schmidt, CTU in Prague (CZ)  
M. Skrbek, CTU in Prague (CZ)  
R. Stojanovic, Univ. of Podgorica (ME)  
J. Strnadel, BUT, Brno (CZ)  
R. Ubar, Tallinn Univ. of Technology (EE)  
H. T. Vierhaus, BTU Cottbus (Germany)  
W. Zając, University of Zielona Gora (PL)

#### ORGANIZING COMMITTEE

H. Kubátová, CTU in Prague, Prague (CZ)  
P. Fišer, CTU in Prague, Prague (CZ)  
R. Kinc, AMCA (CZ)  
E. Uhrová, AMCA (CZ)

#### CONTACT INFORMATION

Hana Kubátová  
Petr Fišer  
Department of Digital Design  
Faculty of Information Technology  
Czech Technical University in Prague  
Thákurova 9, Praha 6, 160 00  
Czech Republic  
Tel.: +420 224 359 840  
e-mail: [kubatova@fit.cvut.cz](mailto:kubatova@fit.cvut.cz), [fiserp@fit.cvut.cz](mailto:fiserp@fit.cvut.cz)

#### WORKSHOP WEB PAGE

<http://pesw.fit.cvut.cz/2018>

## 6<sup>th</sup> Prague Embedded Systems Workshop 2018

# PESW 2018

June 28–30, 2018, Roztoky u Prahy, Czech Republic  
**A forum for friendly discussion of emerging ideas  
aimed at doctoral and prospective doctoral students**

#### BACKGROUND

The Prague Embedded Systems Workshop is a research meeting intended for the presentation and discussion of students' results and progress in all aspects of embedded systems design, testing and applications. It is organized by members of the Department of Digital Design at Faculty of Information Technology (which is the youngest) of the Czech Technical University in Prague (which is the oldest technical university in Central Europe). The workshop aims to enhance collaboration between different universities not only inside EU. It will be based on oral presentations, mutual communication and discussions.

#### SUBMISSION TYPES

- **Full papers** (up to 10 pages, single-column) describing original research.
- **Abstracts** (up to two pages, single-column) of earlier published successfully presented papers (at conferences, journals, etc.).
- **Student posters** – abstracts of defended Bc. and MSc. Theses with subsequent poster presentation. Will not be included in the Proceedings.

#### SCOPE

The workshop PESW 2018 addresses emerging issues, hot problems, new solution methods, and their hardware and software implementations in the fields of digital and mixed-signal system design. It is especially focused on dependable and low power design, and testing methods related to the SoC technology and modern embedded applications. The workshop topics include (but are not limited to):

- Programmable/re-configurable/adaptable architectures
- SoC and NoC design and testing
- Digital design optimization methods
- Architectures and hardware for security applications
- On-line and off-line error detection and correction
- Fault-tolerant control systems design methods
- Testability and reliability analysis
- Logic synthesis and optimization
- Diagnosis & testing of embedded systems
- Verification of embedded systems
- Mission-critical & real-time systems
- Heterogeneous Cyber-Physical Systems
- Robotic control
- Applications of (embedded) digital systems

#### Special Session on Network Security:

- Network monitoring and measurements
- Network traffic processing and analysis, anomaly detection
- Security and privacy issues

#### SUBMISSION AND PRESENTATION

Prospective authors are encouraged to submit their contributions electronically through the page <https://www.easychair.org/conferences/?conf=pesw2018> or (in case of access problems) by e-mail to Workshop Chairs **before the submission deadline**.

Accepted full papers, abstracts, and student posters are supposed to be presented at PESW 2018 by the authors. Submitted abstracts will have longer presentations (30 min. with discussion).

The Proceedings will be distributed electronically (flash drive) and provided with ISBN. The list of papers and abstracts will be published at the PESW web page.

#### IMPORTANT DATES

|  |                                |
|--|--------------------------------|
| Submission of papers:                                | <b>June 5, 2018 (extended)</b> |
| Notification of acceptance:                          | June 10, 2018                  |
| Deadline for final versions of papers and abstracts: | June 17, 2018                  |
| Student posters submission deadline:                 | June 24, 2018                  |
| Student posters notification of acceptance:          | June 26, 2018                  |
| Workshop:  | June 28–30, 2018               |