



IESS 2019

International Embedded Systems Symposium

Sep 9 – 11, 2019, Friedrichshafen, Germany
www.iess.org

International Embedded Systems Symposium

Over recent years, embedded systems have gained an enormous amount of processing power and functionality. Many of the formerly external components can now be integrated into a single System-on-Chip. This tendency has resulted in a dramatic reduction in the size and cost of embedded systems. As a unique technology, the design of embedded systems is an essential element of many innovations. The goals of the International Embedded Systems Symposium are to present exchange and discuss the state of the art, novel ideas, actual research results, and future trends in the field of embedded systems. Contributors and participants from both industry and academia are encouraged to take active part in this symposium. Authors of best papers from IESS 2019 will be invited to submit an extended and improved version to a Special Issue published in International Journal of Parallel Programming from Springer.

Important Dates

Paper Submissions	May 24, 2019(Firm deadline)
Acceptance of Notifications	July 5th, 2019
Camera Ready Papers	July 20th, 2019
Symposium Dates	September 09-11, 2019

Topics of Interest

- Design methods and tools for embedded systems design;
- Novel and dedicated architectures for embedded systems (IoT, deep learning, etc);
- Challenges on moving architectures to the edge of clouds;
- Application specific processors: architectures, design tools and HW/SW Co-design;
- Processing/Communication trade-offs at architectural level;
- Domain Specific languages;
- MDE methods and languages targeting embedded systems design at different abstraction levels;
- Case studies of innovative Embedded Systems;
- Reconfigurable architectures and applications;
- Low power processing and communication architectures;
- Embedded Systems Applications: Automotive, Avionic, Medical, Internet-of-Things (IoT), Industry 4.0, Smart Cities, Smart Grids, Computer Vision, Intelligent Systems;
- Real-time challenges for embedded systems and systems-of-systems
- Human Machine Interface techniques and methods tailored for Embedded Systems;
- Security issues for embedded and real-time systems;

General chairs

Marco Aurelio Wehrmeister, Brazil
 Andy D. Pimentel, Netherlands

Program Chairs

Stefan Henkler, Germany
 Marcio Kreutz, Brazil

Local Arrangement Chair

Mauro C. Zanella, Germany

Publicity Chairs

Marcelo Götz, Brazil

Steering Committee

Mauro C. Zanella, Germany
 Achim Rettberg, Germany
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 Jan Jatzkowski, Germany