



Embedded Systems Week

www.esweek.org

October 13 – 18, 2019
New York City, USA



Call for Papers, Workshops, Tutorials, Special Sessions

- CASES • CODES+ISSS • EMSOFT • IoMT • Symposia • Workshops • Tutorials •

About Embedded Systems Week (ESWEEK)

Embedded Systems Week (ESWEEK) is the premier event covering all aspects of embedded systems and software. By bringing together three leading conferences (CASES, CODES+ISSS, EMSOFT), a special IoMT Day, a symposium (NOCS), and hot-topic workshops and tutorials, ESWEEK presents attendees a wide range of topics unveiling the state of the art in embedded systems design and HW/SW architectures.

One Registration, three Conferences !

Registered attendees are entitled to attend sessions of all conferences CASES, CODES+ISSS, EMSOFT, and the IoMT Day. Symposia, workshops, and tutorials require separate registration.

Journal Track:

Abstract Submission: April 5, 2019
Full Paper Submission: April 12, 2019 (firm)
Notification of Acceptance: July 10, 2019

Work-in-Progress Track:

Paper Submission: June 7, 2019 (firm)
Notification of Acceptance: July 10, 2019

Workshop Proposals: April 18, 2019

Tutorial Proposals: April 30, 2019

Special Session Proposals: April 30, 2019



International Conference on Compilers, Architectures, and Synthesis for Embedded Systems

CASES is a premier forum where researchers, developers and practitioners exchange information on the latest advances in compilers and architectures for high-performance, low-power embedded systems. The conference has a long tradition of showcasing leading edge research in embedded processor, memory, interconnect, storage architectures and related compiler techniques targeting performance, power, predictability, security, reliability issues for traditional and emerging applications. In addition, we invite innovative papers that address design, synthesis, and optimization in heterogeneous and accelerator-rich architectures.

CASES Program Chairs

Akash Kumar, Technical University of Dresden, DE
Partha Pande, Washington State University, US

International Conference on Hardware/Software Codesign and System Synthesis



The International Conference on Hardware/Software Codesign and System Synthesis is the premier event in system-level design, modeling, analysis, and implementation of modern embedded and cyber-physical systems, from system-level specification and optimization down to system synthesis of multi-processor hardware/software implementations. The conference is a forum bringing together academic research and industrial practice for all aspects related to system-level and hardware/software co-design. High-quality original papers will be accepted for oral presentation followed by interactive poster sessions.

CODES+ISSS Program Chairs

Sudeep Pasricha, Colorado State University, US
Roman Lysecky, Arizona State University, US

Symposia



Keynotes

Tutorials

Workshops



International Conference on Embedded Software

The ACM SIGBED International Conference on Embedded Software (EMSOFT) brings together researchers and developers from academia, industry, and government to advance the science, engineering, and technology of embedded software development. Since 2001, EMSOFT has been the premier venue for cutting-edge research in the design and analysis of software that interacts with physical processes, with a long-standing tradition for results on cyber-physical systems, which compose computation, networking, and physical dynamics.

EMSOFT Program Chairs

Sriram Sankaranarayanan, Univ. of Colorado Boulder, US
Timothy Bourke, INRIA, Paris, FR

Internet of Medical Things

IoMT

The Internet of Medical Things (IoMT) paves the foundations for intelligent and reliable personalized precision medicine. Grounded in the mathematical and physical modeling of human anatomy and physiology, it offers accurate multiscale medical monitoring through smart sensing, enabling continuous diagnosis via on-fly communication with medical experts. It provides hyperspectral and hyperdimensional processing and restores health through patient-specific actuation. The IoMT special day provides a forum for academic and industry representatives from areas such as medical and bio-engineering and embedded systems to discuss innovative ideas and solutions for precise personalized medicine. Submissions to the IoMT day are via the three conferences.

IoMT Chairs

Insup Lee, University of Pennsylvania, US
Paul Bogdan, University of Southern California, US

ESWEEK 2019 has a dual publication model with two tracks: Journal track papers will be published in the ACM Transactions on Embedded Computing Systems (TECS), and Work-in-Progress track papers will be published in the ESWEEK Proceedings.
<http://www.esweek.org/author-information>

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Paper Process

ESWEEK 2019 continues a dual publication model comprising the Journal track and the Work-in-Progress (WiP) track. Journal track papers, which are full-length (10-page) papers describing mature work, will be published in the ACM Transactions on Embedded Computing Systems (TECS). The WiP track papers, which are short (2-page) papers representing not-yet-mature but promising research, will be published in the ESWEEK proceedings and will be listed as regular publications within the IEEE and/or ACM digital libraries. Authors of WiP papers have the opportunity to publish the extended form of their work in any conference or journal they prefer. Journal and WiP papers are mutually exclusive, i.e., a work can only be in submission in one of the two tracks. For more information, please refer to:

<http://www.esweek.org/author-information>.

Workshops, Tutorials, Special Sessions

Call for Workshop Proposals

ESWEEK 2019 will host several workshops on Oct. 17/18th. ESWEEK workshops are excellent opportunities to bring together researchers and practitioners from different communities to share their experiences in an interactive atmosphere.

We invite you to submit workshop proposals on any topic related to the broad set of research, education, and application areas in embedded systems before the **deadline of April 18, 2019**.

Workshop Chair

Laura Pozzi, USI Lugano, CH

Call for Tutorial Proposals

ESWEEK 2019 is looking for high-quality tutorials that will take place on Oct. 13th. Tutorials offer a unique opportunity where presenters can interact with attendees and attendees can gain in-depth knowledge on specific topics. Tutorials on all topics related to embedded system design, analysis and development are welcome and can be either half or full day, lecture style or hands on. We invite you to submit tutorial proposals before the **deadline of April 30, 2019**.

Call for Special Session Proposals

ESWEEK 2019 will host several special sessions. They should cover hot, contemporary topics that are complementary to regular sessions and can constitute individual presentations, panels or other formats. Participants of each accepted special session will have the opportunity to co-author an overview paper (maximum 10 pages) of the session, published in the ESWEEK proceedings. We invite you to submit special session proposals on any topic related to the broad areas of interest of the conference or beyond before the **deadline of April 30, 2019**.

Tutorials and Special Sessions Chair

Andreas Gerstlauer, University of Texas Austin, US

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ESWEEK 2019 General Chairs

- Petru Eles, Linköping University, SE
- Tulika Mitra, National University of Singapore, SG
- Soonhoi Ha, Seoul National University, KR

ESWEEK Conference Program Chairs

CASES

- Akash Kumar, Technical University of Dresden, DE
- Partha Pande, Washington State University, US

CODES+ISSS

- Sudeep Pasricha, Colorado State University, US
- Roman Lysecky, Arizona State University, US

EMSOFT

- Sriram Sankaranarayanan, Univ. of Colorado Boulder, US
- Timothy Bourke, INRIA, Paris, FR

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- Siddarth Garg, New York University, US

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- Paul Bogdan, University of Southern California, US

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