

WoCCES 2018

**6TH WORKSHOP ON COMMUNICATIONS
IN CRITICAL EMBEDDED SYSTEMS**

**IEEE SYMPOSIUM ON COMPUTERS AND COMMUNICATIONS
NATAL, RN, BRAZIL
25-28 JUNE 2018**



CALL FOR PAPERS

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ABOUT

Currently there is a growing demand for embedded systems in several areas e.g. agricultural, industrial, civil, transportation and residential. Based on the rapidly growing computing power of microprocessors and microcontrollers, autonomous vehicle systems (air, ground, underwater, etc.) and mobile robots have been receiving an increasing number of electronic components connected through wireless networks and running embedded software. Depending on the application, such systems become not only embedded systems, but critical embedded systems as they can put lives and high value assets at risk.

Due to the high connectivity provided by the Internet of Things and the flexibility of Cloud Computing-based systems, a large number of devices can be deployed in areas of interest that are likely to be considered critical, performing sensing, monitoring and actuation tasks in targeted environments. In addition to static ubiquitous devices, several efforts are currently being made to develop autonomous or guided vehicles, and may use Fog Computing structures or assist in these scenarios implementations.

This workshop aims to integrate several researchers working in the field of communication in critical embedded systems including Connected Vehicles, Internet of Things and Smart Cities, Cloud and Fog Computing, Security, Cryptography, and Privacy. These are highly relevant topics within the IEEE Symposium on Computers and Communications, and whether associated, they comprise a group of related topics of interest that can promote more focused discussions, promoting an exclusive workshop to allow the exchange of experiences.

TOPICS OF INTEREST

The 6th edition of **WoCCES** will provide an international technical forum for experts from industry and academia to exchange ideas and present results of ongoing research in the field of Communications in Critical Embedded Systems. Authors are invited to submit a full paper related to the following topics of interest (but not limited to):

- Connected Vehicles;
- Cloud Computing Security;
- Distributed Algorithms;
- Field-programmable Gate Array (FPGA);
- Fly-by-Wireless and Drive-by-Wireless;
- Fog Computing;
- Graphics Processing Unit (GPU);
- Hardware and Software Architectures;
- High-availability Clusters and Embedded Computing Grids;
- Internet of Things (including Internet of Flying Things);
- Many-to-many Communication;
- Medium Access Control, Antennas and Cognitive Radio;
- Middleware and Web Services;
- Mobile and Embedded Computing;
- Peer-to-Peer, Mobile and Ad-Hoc Networks;
- Safety and Certification;
- Security;
- Sensors and Mobile Robots;
- Smart Cities;
- Unmanned systems (UAVs, UGVs, etc);
- Wireless Sensor Networks.

ORGANIZING COMMITTEE

Alex Sandro Roschildt Pinto
UFSC, Blumenau, Brazil

Daniel Fernando Pigatto
UTFPR, Curitiba, Brazil

Kalinka Regina Lucas Jaquie Castelo Branco
ICMC/USP, São Carlos, Brazil

Nicolas Larrieu
ENAC, France

Vandermi João da Silva
UFAM, Itacoatiara, Brazil

IMPORTANT DATES

Paper submission deadline:

April 16th, 2018

Notification of paper acceptance:

May 7th, 2018

Camera-ready submission:

May 14th, 2018

SUBMISSION GUIDELINES

Instructions on paper submission are available on the official WoCCES website.

MORE INFORMATION

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