

# VECoS 2018

Call for Papers  
12<sup>th</sup> International Conference on  
*Verification and Evaluation of Computer and Communication Systems*  
September 26-28, 2018, Grenoble, France  
<https://vecos.ensta-paristech.fr/2018/>

The VECoS conference series is interested in the analysis of computer and communication systems in which functional and extra-functional properties are inter-related. VECoS encourages the cross-fertilization between the various formal verification and evaluation approaches, methods and techniques, and especially those developed for concurrent and distributed hardware/software systems.

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

- Abstraction techniques
- Certification standards for real-time systems
- Compositional verification
- Correct-by-construction design
- Dependability assessment techniques
- Equivalence checking
- Model-checking
- Parameterized verification
- Performance and robustness evaluation
- Probabilistic verification
- QoS evaluation, planning and deployment
- RAMS (Reliability Availability Maintainability Safety) assessment
- Rigorous system design
- Security protocols verification
- Simulation techniques of discrete-event and hybrid systems
- Supervisory control
- Verification & validation of IoT
- Verification & validation of safety-critical systems
- Worst-case execution time analysis

Application areas of VECoS include: adaptive systems, communication protocols, computer-supported collaborative work systems, cloud computing, cyber-physical systems, high performance computing, internet of things, logistics systems, manufactory of the future, mixed criticality systems, mobile and wireless networking, operations research, programming languages, real-time and embedded operating systems, service oriented systems, telecommunication systems, ubiquitous systems, web services, wireless sensor networks and workflow systems.

An overview of previous VECoS conferences can be found at: <https://vecos.ensta-paristech.fr/>  
VECoS 2018 will be held in September 26-28 in Grenoble, France.

## Important Dates

All the deadlines are AoE (Anywhere on Earth)	
Abstract deadline:	April 8, 2018
Papers deadline:	April 30, 2018
Paper notification:	June 11, 2018
Camera-ready deadline:	June 18, 2018
Conference:	September 26–28, 2018

## Invited Speakers

TBC

## General Information on Submissions

VECoS 2018 is soliciting two types of contributions: full and short papers. Full papers are allowed a maximum of 15 pages (including bibliography), whereas short papers are allowed a maximum of 6 pages (including bibliography). Submitted papers must be in English presenting original work and not be submitted for publication elsewhere. Papers must be submitted electronically in PDF format using [EasyChair](#) system using the [LNCS format](#). Accepted (full and short) papers will appear in the conference proceedings and have presentations during the conference. At least one author of each accepted paper must attend VECoS 2018 to present. The conference proceedings will be published in the Springer-Verlag [Lecture Notes in Computer Science](#) (LNCS) series.

Authors of selected papers will be invited to submit extended article versions in a special issue of [Innovations in Systems and Software Engineering: A NASA Journal](#) or of the [International Journal of Critical Computer-Based Systems](#).

In addition to the full and short papers, VECoS invite researchers to present posters at the conference to reflect work in progress. Posters will not lead to a publication in the proceedings. The deadline for submission of Posters is **July 1, 2018**. Please submit a PDF file containing a short description of the content of the poster (upto 2 pages in LNCS format) using [EasyChair](#) system. These contributions will be judged solely on the basis of their attractiveness to the conference.

## Organization

### General Chair

Saddek Bensaïem, Verima / University Grenoble Alpes, France  
Bruno Monsuez, ENSTA ParisTech, France

### Program Chairs

Mohamed Faouzi Ati, Uppsala University, Sweden  
Simon Bédard, INRIA Lille - Nord Europe, France

### Publicity Chairs

Beñacem Ben Hedia, CEA-LIST, Saclay, France  
Vădimir-Alexandru Paun, ENSTA ParisTech, Palaiseau, France

### Local organization committee

Marius Bozsa, Verima / CNRS, France  
Jacques Combaz, Verima / CNRS, France  
Ayoub Nouri, Verima / University Grenoble Alpes, France

For additional information, visit the conference website: <https://vecos.ensta-paristech.fr/2018/>