



CPSiA 2017

Special Session on Cyber Physical Systems in Automotive Area

at the 9th International Conference on Computational Collective Intelligence (ICCCI 2017)

Nicosia, Cyprus, September 27-29, 2017

Conference website: <http://cyprusconferences.org/iccci2017/>

Special Session Organizers

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Objectives and topics

The CPSiA 2017 Special Session offers an opportunity to gather research scientific works related to Cyber Physical Systems in context of Automotive.

Special Section focuses on the use of IT technologies related to Cyber Physical Systems in automotive applications where we are searching for basic and applied papers. The automotive systems have a great potential to use and benefit from new Information Technologies developed for the Cyber Physical Systems. However the application of CPS in automotive area is in its initial stage. IT and automotive systems have been chosen deliberately as two fields in which international excellence has been being achieved over a long period of time. The CPSiA 2017 Special Session focus on two related fields: CPS applied for automotive solutions and CPS used in automotive production industry.

The goal of this special session is to bring together researchers from different fields of expertise, lead to a better understanding between them, and to promote interaction in this new and interdisciplinary area. All in all, we want to create an opportunity for the participants to exchange about a wide range of topics related to the area of information technologies and automotive systems.

Topics of interest include:

- Computational intelligence in automotive systems
- Collective computational intelligence in Vehicle-to-Vehicle communication
- Advanced Driver Assistance Systems
- Vehicle-to-Vehicle and Vehicle to Road Infrastructure Communication
- No GPS navigation systems for automotive solutions
- Advanced on board communication in automotive systems
- Flexible and scalable communication interfaces for automotive production systems

- Cloud computing for automotive industry
- Computational Intelligence and Data mining for energy efficient automotive production
- Components for digital factory in automotive industry (interfaces descriptions, data exchange)
- Flexible logistic in automotive industry

Any other topics strongly related to CPS in Automotive area are also welcome. Please contact directly session chairs to confirm a suitability of your paper topic.

Important dates

Submission of papers: **May 1, 2017**
 Notification of acceptance: **June 1, 2017**
 Camera-ready papers: **June 15, 2017**
 Registration & payment: **June 15, 2017**
 Conference date: **September 27-29, 2017**

Program Committee (to be invited)

Markus Bregulla, Technische Hochschule Ingolstadt, Germany
 Daniel Grossman, Technische Hochschule Ingolstadt, Germany
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 Grzegorz Ulacha, West Pomeranian University of Technology, Poland
 Krzysztof Małeck, West Pomeranian University of Technology, Poland
 Grzegorz Andrzejewski, University of Zielona Góra, Poland
 Marek Drewniak, Aiut Sp. z o.o., Poland
 Adam Ziębiński, Silesian University of Technology, Institute of Informatics, Gliwice Poland

Submission

All contributions should be original and not published elsewhere or intended to be published during the review period. Authors are invited to submit their papers electronically in pdf format, through EasyChair. All the special sessions are centralized as tracks in the same conference management system as the regular papers. Therefore, to submit a paper please activate the following link and select the track: **CPSiA 2017: Special Session on Cyber Physical Systems in Automotive area.**

<https://www.easychair.org/conferences/?conf=iccci2017>

Authors are invited to submit original previously unpublished research papers written in English, of up to 10 pages, strictly following the LNCS/LNAI format guidelines. Authors can download the Latex (recommended) or Word templates available at [Springer's web site](#). Submissions not following the format guidelines will be rejected without review. To ensure high quality, all papers will be thoroughly reviewed by the **CPSiA 2017 Program Committee**. All accepted papers must be presented by one of the authors who must register for the conference and pay the fee. The conference proceedings will be published by Springer in the prestigious series LNCS/LNAI (indexed by ISI CPCI-S, included in ISI Web of Science, EI, ACM Digital Library, dblp, Google Scholar, Scopus, etc.).