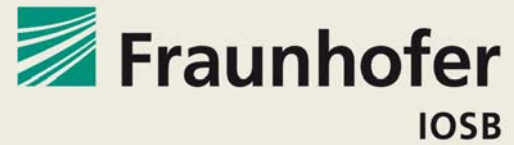


# Call for Papers



## Chairmen

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Prof. Zöllner (FZI, Karlsruhe)

## Author's Schedule

**15.04.2016**

Deadline abstract submission

**10.06.2016**

Notification of acceptance

**15.07.2016**

Deadline full paper submission

## Contact

info@ml4cps.com



Conference location: IOSB Karlsruhe



Karlsruhe Palace

## **Second Conference**

**Machine Learning for Cyber Physical Systems and Industry 4.0 - ML4CPS**  
Fraunhofer IOSB, Karlsruhe, Germany

**Date: September 29. - 30., 2016**

Cyber Physical Systems are characterized by their ability to adapt and to learn: They analyze their environment, learn patterns, and they are able to generate predictions. Typical applications are condition monitoring, predictive maintenance, image processing and diagnosis.

Machine Learning is the key technology for these developments. The conference offers a forum to present new approaches to Machine Learning for Cyber Physical Systems, to discuss experiences and to develop visions. Therefore, the conference addresses researchers and users from different industry sectors such as production technology, automation, automotive and telecommunication.

## **Papers may cover, but are not limited to, the following topics:**

- Machine Learning algorithms for Cyber Physical Systems such as dimensionality reduction, clustering, fuzzy inference, learning of automata and state-based systems, decision trees (forests), kernel based methods, neural networks, deep learning, boosting, manifold learning, causality analysis
- Real-time enabled algorithms, approaches for distributed learning, online learning and preprocessing
- Learnable modeling formalisms for Cyber Physical Systems, e.g. time series, hybrid automata, parameterized differential equation systems, statistical models such as Bayesian Networks
- Methods for sensor fusion, data acquisition in distributed systems, data integration and data semantics
- Applications of condition monitoring, predictive maintenance, image processing, pattern recognition, diagnosis and Industry 4.0 / Industrial Internet

## **Submission of abstracts:**

Please send an expressive 2 pages DIN A4 abstract (PDF) to:  
**submission@ml4cps.com**

## **Submission of full papers:**

Papers are chosen on a peer-review basis and accepted papers are expected to be published by Springer. Papers with commercial character cannot be taken into account.

Papers must not be longer than 6-8 pages. The Latex and Word templates are available for download on

**www.ml4cps.com**