



8TH International Conference on Control, Automation, and Diagnosis



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May 15-17, 2024
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CALL FOR PAPERS SPECIAL SESSION ON

Modern and AI-Based Diagnosis Methods for Automotive Applications

for ICCAD'24

May 15-17, 2024, Paris-France

Session Co-Chairs:

- Alia Salah, FKFS - Research Institute for Automotive Engineering and Powertrain Systems Stuttgart, Germany, alia.Salah@fkfs.de

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Session description:

In ICCAD 2024, the new topic “Modern and AI-Based Diagnosis Methods for Automotive Applications” focuses on the current challenges and new technologies in the area of testing and diagnosis of E/E systems in vehicles in connection with the connected infrastructure, new assistance functions and the challenges of meeting legal requirements and standards.

The development of new diagnostic methods and solutions offers a great potential for realizing the autonomous driving and networked vehicles of the future, where modern vehicles with extensive ADAS systems, fleet management and deployment planning, charging infrastructures and comprehensive service-on-demand functions are increasingly being integrated into one networked functional landscape (V2X) beyond the vehicle-level.

The growing complexity in the electronics and functionalities of the vehicle can only be efficiently handled throughout the use of modern diagnostic tools and methods such as over-the-air (OTA) diagnostics, software-defined vehicle and automated diagnostic.

The topics of interest include, but are not limited to:

- Artificial intelligence and machine learning for diagnosis and anomaly detection
- Diagnosis of ADAS systems
- Testing technologies for new assistance systems
- Self-diagnosis systems for powertrain and its functionalities
- Deployment of software-defined vehicle in diagnostics
- Charging and infrastructure diagnostic services
- Communication Protocols
- Over-the-air (OTA) diagnosis devices

SUBMISSION

Papers must be submitted electronically for peer review by: **December 15, 2023**

<https://www.iccad-conf.com/submission/>

All papers must be written in English and should describe original work. The length of the paper is limited to a maximum of 6 pages (in the standard IEEE conference double column format).