The number of intelligent embedded devices continues to multiply rapidly therefore leading to the emergence of autonomous systems in order to provide highly efficient, safe and secure functions. Autonomous driving constitutes today one of the best examples of this trend.

However, with the increase of the level of automation, systems design becomes very challenging in order to accommodate the high complexity, connectivity and heterogeneity of the system while complying with rigorous constraints in terms of safety, real-time capabilities and security.

The workshop will explore recent industrial and academic methods and methodologies in autonomous systems design. This includes several areas:

1) embedded and cyber-physical systems platforms that implement and

execute the autonomous system functions including their architectures,

hardware, software and communication,

2) the design for autonomous systems

including processes, modeling, optimization, verification, validation, and test

3) all aspects of dependable systems design for autonomous systems including,

but not limited to, functional safety concepts, fail-operational systems design,

functional safety for applications with machine learning, safe and secure changes

and updates, autonomous systems security.

Steering Committee

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