TUM

Seminar

Online Fault Detection in Networks on Chip

Safety-critical applications, e.g. for autonomous driving, must be implemented as a fail-operational system that can continue its work even when parts of the hardware fail. When implementing such a fail-operational system on a Network-on-Chip (NoC)-based Multi Processor System on Chip (MPSoC), the system must be able to detect faults in the communication layer and react accordingly. The goal of this seminar is to survey and compare different approaches for online fault detection in the NoC.

Advisors

Max Koenen