

## EMI challenges for a mixed mode usage of MTCA.4

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The xTCA standard is a crate standard for high speed digital processing and data transfers. In MTCA.4, extended MTCA for research, also analogue circuits are installed into the same crate. By that it will be a mixed mode design without closed shielding to the different regions. The difference of modern differential digital and of analogue signal transfers and the sensitivity of analogue circuits needs additional care about grounding, power-supplies, DC/DC-converters, return-currents, and externally forced currents. The talk will point out the critical issues and present techniques to handle them.

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