

## G-RAD Workshop - Grenoble Radiation Testing of semiconductor devices and systems



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### Radiation Effects in terrestrial environments: servers, telecommunications and automotive

*Wednesday, 9 December 2020 15:35 (20 minutes)*

This talk will cover Single event effects terminology, mechanisms and trends for terrestrial environments including server, networking and AV systems. Single event effects modeling methodologies will be discussed, including modeling of Soft Error Rate (SER) vulnerability factors for intelligent dependable systems, and the needed mitigations at the technology, IP, SOC and system level. The impact of SOC soft error rate performance on functional safety metrics will be also be covered, with a focus on automotive safety critical systems that need to comply with ISO26262 requirements.

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**Session Classification:** Session 2 - Atmospheric and terrestrial applications