

# 18th International School on the Effects of Radiation on Embedded Systems for Space Applications (SERESSA)

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Organizers:



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## System hardening and real space applications

This talk describes the suitable protection at architecture and system level against the effects of radiation on electronic components and digital systems. After the description of the general architecture of a space avionics system, the potential solutions for each type of units constituting an on-board computer are presented through the example of real space applications: avionics bus, links, memory units, and –the main part –processing units i.e. fault-tolerant architectures.

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