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Titolo	2013 International Symposium on Voronoi Diagrams in Science and Engineering : ISVD 2013, proceedings, 8-10 July 2013, Saint Petersburg, Russia / / Marina Gavrilova, Kira Vyatkina, eds
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Altri autori (Persone)	GavrilovaMarina L VyatkinaKira
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Formato	Materiale a stampa
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2. Record Nr.	UNINA9910346864003321
Autore	Niknahad Mahtab
Titolo	Using Fine Grain Approaches for highly reliable Design of FPGA-based Systems in Space
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ISBN	1000035134
Descrizione fisica	1 online resource (IX, 146 p. p.)
Collana	Steinbuch Series on Advances in Information Technology / Karlsruher Institut für Technologie, Institut für Technik der Informationsverarbeitung
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Sommario/riassunto	Nowadays using SRAM based FPGAs in space missions is increasingly considered due to their flexibility and reprogrammability. A challenge is the devices sensitivity to radiation effects that increased with modern architectures due to smaller CMOS structures. This work proposes fault tolerance methodologies, that are based on a fine grain view to modern reconfigurable architectures. The focus is on SEU mitigation challenges in SRAM based FPGAs which can result in crucial situations.