

REZULTATE LIVRATE 2007

1. Algoritmul de constructie a grafului de fiabilitate/diagrama Markov
2. Algoritm de partitionare a circuitului cuantic/reversibil
3. Colectia de circuite benchmark/specificatii de test pentru fiecare set / seturi eficiente de vectori test pentru fiecare circuit benchmark

ARTICOLE PUBLICATE

Oana Boncalo, Mihai Udrescu, Lucian Prodan, Mircea Vladutiu, Alexandru Amaricai. Assessing Quantum Circuits Reliability with Mutant-Based Simulated Fault Injection. Proceedings 18th European Conference on Circuit Theory and Design (ECCTD'07), Seville, Spain, August 26-30 2007, pp. 942-945, ISBN 1-4244-1342-7 (cotatie ISI)

Oana Boncalo, Mihai Udrescu, Lucian Prodan, Mircea Vladutiu, Alexandru Amaricai. Saboteur Based Fault Injection for Quantum Circuits Fault Tolerance Assessment. Proceedings 10th EUROMICRO Conference on Digital System Design, Architectures, Methods and Tools (DSD 2007), Lübeck, Germany, August 29 - 31 2007, pp. 634-640, ISBN 0-7695-2978-X (cotatie ISI)

Lucian Prodan, Mihai Udrescu, Oana Boncalo, Mircea Vladutiu. Design for Dependability in Emerging Technologies. ACM Journal of Emerging Technologies in Computing, Volume 3, Issue 2 (Article 6), July 2007, ISSN 1550-4832 (cotatie ACM, DBLP) Obs. Acest jurnal este considerat intre primele 3 din lume in domeniul tehnologiilor emergente de calcul; motivul pentru care nu are inca o cotatie ISI este pur birocratic – jurnalul a fost infiintat de abia in anul 2006.

Oana Boncalo, Mihai Udrescu, Lucian Prodan, Mircea Vladutiu, Alexandru Amaricai. Using Simulated Fault Injection for Fault Tolerance Assessment of Quantum Circuits. Proceedings IEEE 40th Annual Simulation Symposium, Norfolk VA, USA, March 26 - 28, 2007, pp. 213-220, ISSN: 1080-241X, ISBN: 0-7695-2814-7 (cotatie ISI)

Cristian Ruican, Mihai Udrescu, Lucian Prodan, Mircea Vladutiu. Automatic Synthesis for Quantum Circuits using Genetic Algorithms. Proceedings ICANN'07 "Adaptive and Natural Computing Algorithms", LNCS 4431 (Springer-Verlag Berlin Heidelberg), Warsaw, Poland, 2007, pp. 174–183, ISBN: 978-3-540-71589-4 (cotatie ISI)

Oana Boncalo, Mihai Udrescu, Lucian Prodan, Mircea Vladutiu, Alexandru Amaricai. Simulated Fault Injection for Quantum Circuits Based on Simulator Commands. 4th International Symposium on Applied Computational Intelligence and Informatics, SACI, May 17-18 2007 Page(s):245 – 250 (cotatie ISI)