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Lista de lucrări

în domeniul tezei de abilitare „Calculatoare și tehnologia informației”

A. Teza de doctorat

“New results in digital circuit testing”, PhD Thesis, „Gheorghe Asachi” Technical University of Iași, 2001, Supervisor Prof. Corneliu Huțanu

B. Capitle de carte publicate în străinătate

1. **Cașcaval, P.**, Craus, M., Cașcaval, D., 2002, *A Simplified Approach of Machines Interference Problem*, Recent Advances in Circuits, Systems and Signal Processing, WSEAS Press, Athens, 2002, pp. 163–168, ISBN: 960-8052-64-5.
2. **Cașcaval, P.**, Onea, A., *March Test Algorithm for 3-Coupling Faults in Random Access Memories*, *Advances in Systems Theory, Mathematical Methods and Applications*, WSEAS Press, Athens, 2002, pp. 188–194, ISBN: 960-8052-61-0.

C. Cărți publicate în țară, la edituri recunoscute CNCSIS

1. **Cașcaval, P.**, *Sisteme de timp real – Fiabilitate și siguranță în funcționare*, Performantica, Iași, 2007, 195 pg., ISBN: 973-730-325-3, 978-973-730-325-7.
2. **Cașcaval, P.**, Cașcaval, D., *Modelarea și simularea sistemelor cu evenimente discrete*, Performantica, Iași, 2006, 263 pg., ISBN: 973-730-306-7, 978-973-730-306-6.
3. **Cașcaval, P.**, Cașcaval, D., *Modelare și simulare*, Editura “Gheorghe Asachi”, Iași, 2002, 194 pg., ISBN: 973-8292-68-9.
4. Colectiv de autori, Coordonator C. Botez, *Teste de informatică*, 235 pg., Editura “Gheorghe Asachi”, Iași, 2001, ISBN : 973-8050-93-6

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

1. Neaga, C., **Cașcaval, P.**, *Baze de date dBAZE IV*, 214 pg., Universitatea Tehnică “Gheorghe Asachi”, Iași, 1996.

E. Lucrări științifice publicate în reviste cotate ISI sau indexate BDI

1. **Cașcaval, P.**; Leon, F., *Optimization Methods for Redundancy Allocation in Hybrid Structure Large Binary Systems*, *Mathematics*, Vol.10 (19), October 2022 (Q1)
<https://doi.org/10.3390/math10193698>.

2. Leon, F., **Caşcaval, P.**, Bădică, C., Optimization Methods for Redundancy Allocation in Large Systems, Vietnam Journal of Computer Science, Vol. 7, No. 3, 281-299, 2020, <https://doi.org/10.1142/S2196888820500165> (Q4).
3. **Caşcaval, P.**, Caşcaval, D., *March test algorithm for unlinked static reduced three-cell coupling faults in random-access memories*, Microelectronics Journal, Elsevier, Vol. 93, November 2019, <https://doi.org/10.1016/j.mejo.2019.104619> (Q3).
4. **Caşcaval, P.**, *Approximate Method to Evaluate Reliability of Complex Networks*, Complexity, Wiley, Volume 2018, Article ID 5967604, 11 pages (Q2) <https://doi.org/10.1155/2018/5967604>.
5. Caşcaval, D., **Caşcaval, P.**, *A Comparative Study on the Methods of Automatic Fabric Inspection*, Bul. Inst. Polit. Iasi, Automatică şi Calculatoare, Vol. 62 (66), Fasc. 1-2, 9-18, 2016.
6. Caşcaval, D., **Caşcaval, P.**, *Software Application for Regression Analysys and Process Optimization*, Bul. Inst. Polit. Iasi, Automatică şi Calculatoare, Tom LX (LXIV), Fasc. 3, 59-68, 2014.
7. Huzum, C., **Caşcaval, P.**, *A Multibackground March Test for Static Neighborhood Pattern-Sensitive Faults in Random-Access Memories*, Electronics and Electrical Engineering (Elektronika ir Elektrotechnika) – Section System Engineering, Computer Technology, Vol. 119 (3) , 81-86, 2012 (Q3).
8. Huzum, C., **Caşcaval, P.**, *Dynamic Neighborhood Pattern-Sensitive Faults in Random-Access Memories. A Fault Coverage Evaluation*, Bul. Inst. Polit. Iasi, Tom LVII (LXI), Fasc. 4, Automatică şi Calculatoare, 21-31, 2011.
9. Huzum, C., **Caşcaval, P.**, *A Fault Coverage Evaluation of Linked Neighborhood Pattern-Sensitive Faults in Random-Access Memories*, Annals of the University of Craiova, Series Automation, Computers, Electronics and Mechatronics, vol. 7 (34), No. 1, 21-26, 2010.
10. **Caşcaval, P.**, Caşcaval, D., *March SR3C: A Test for a reduced model of all static simple three-cell coupling faults in random-access memories*, Microelectronics Journal, vol. 41, Issue 4, 212-218, 2010, doi:10.1016/j.mejo.2010.02.004 (Q3)
11. **Caşcaval, P.**, Sillion, R., Caşcaval, D., *A Logic Design for MarchS3C Memory Test BIST Implementation*, Romanian Journal of Information Science and Technology, Vol. 12, No.4, 2009, 440-454 (Q2).
12. Huzum, C., **Caşcaval, P.**, *A Fault Primitive Based Model for all Static Neighborhood Pattern-Sensitive Faults in Random Access Memories*, Bul. Inst. Polit. Iasi, Tom LV (LIX), Fasc. 3, Automatică şi Calculatoare, 63-74, 2009.
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F. Lucrări științifice publicate în volumele conferințelor

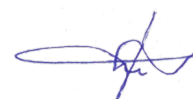
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23. **Caşcaval, P.**, Onea, A., *March Test Algorithm for 3-Coupling Faults in Random Access Memories*, Proceedings of the 2nd WSEAS Int. Conf. on Information Science and Applications, Cancun, Mexico, May 12-16, 2002, pp. 2841–2846, CD-ISBN 960-805-59-9.
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G. Contracte de cercetare.

1. Contract de cercetare cu agent economic, Tema contractului: *Structuri redundante pentru creșterea fiabilității sistemelor fotovoltaice și a siguranței lor în funcționare*, Contract nr. 39435/2023, Perioada 2023-2024, Executant: Universitatea Tehnică „Gheorghe Asachi” din Iași, Valoare contract: 60000 RON, Director: **Petru Cașcaval**, Beneficiar: Societatea Comercială Q SRL, Iași, Stradela Sf. Andrei nr. 13, Înregistrată la Registrul Comerțului cu nr: J22-2049-1991, C.I.F.: 193211.
2. Grant CNCSIS de tip A finanțat de MEC, Titlu: Teste de memorie RAM pentru defecte statice de tip cuplaj și defecte dinamice, Cod CNCSIS 231, Tema 11: *Elaborarea de noi teste de memorie de tip march cu o capacitate mai mare de detectare a defectelor statice de tip cuplaj și a defectelor dinamice*, Contract nr. GR 80/2007, Executant: Universitatea Tehnică „Gheorghe Asachi” din Iași, Director: **Petru Cașcaval**, Valoare 22000 RON.
3. Grant CNCSIS de tip A finanțat de MEC, Titlu: Teste de memorie RAM pentru defecte statice de tip cuplaj și defecte dinamice, Cod CNCSIS 231, Tema 2: *Evaluarea performanțelor celor mai cunoscute teste de memorie privind capacitatea de detectare a defectelor statice de tip cuplaj și a defectelor dinamice*, Contract nr. GR 217/2006, Executant: Universitatea Tehnică „Gheorghe Asachi” din Iași, Director: **Petru Cașcaval**, Valoare 20000 RON.
4. Proiect de cercetare PRORETA 5 - AI in Motion, Contract nr. 12371/2021 cu Continental Automotive Romania, Director Florin Leon, Valoare 69121 RON, Membru **Petru Cașcaval**.
5. Proiect de cercetare PRORETA 5 - AI in Motion, Contract nr. 1721/2020 cu Continental Automotive Romania, Director Florin Leon, Valoare: 98798 RON, Membru **Petru Cașcaval**.
6. Grant CNCSIS de tip A, finanțat de MEC, Contract nr. A1/GR 164/2006, Tema 16, Cod CNCSIS 421. Tema grantului: *Modele analitice și de simulare numerică pentru studiul proceselor de țesere ca procese stochastice cu evenimente discrete*, Executant : Universitatea Tehnică „Gheorghe Asachi” din Iași, Director Doina Cașcaval, Valoare 2006: 10.000 RON, Membru **Petru Cașcaval**.
7. Proiect CEEEX GRAI / Program INFOSOC Contract nr. 74 CEEEX - II03/2006. Finanțare: Buget de Stat -Autoritatea Națională pentru Cercetare Științifică, Programul „Cercetare de excelență”. Tema proiectului: *GRID academic pentru aplicații complexe*. Director Mitică Craus, Valoare 2006 (sursa-buget de stat): 169 246 RON, Membru **Petru Cașcaval**.
8. Proiect CEEEX TERAPERS / Program INFOSOC, Contract nr. 56 – CEEEX II-03/2006. Subcontract de finanțare nr. 14720/2006. Finanțare: Buget de Stat -Autoritatea Națională pentru Cercetare Științifică. Tema: *Sistem pentru terapia personalizată a tulburărilor de expresie lingvistică*, Director UTI: Alexandru Valachi, Valoare: 7 000 RON, Membru **Petru Cașcaval**.
9. Grant CNCSIS de tip A, finanțat de MEC, nr. 27637/2005, Tema 11, Cod CNCSIS 421, Tema grantului: *Modele analitice și de simulare numerică pentru studiul proceselor de țesere ca procese stochastice cu evenimente discrete*. Executant : Universitatea Tehnică „Gheorghe Asachi” din Iași, Director: Doina Cașcaval, Valoare: 10.000 RON, Membru **Petru Cașcaval**.
10. Program CERES, cod 1976/f, 2004. Tema proiectului : *Strategii de cercetare și dezvoltare tehnologică în domeniul tehnologiilor informaționale și de comunicații în perspectiva integrării în spațiul de cercetare european*. Beneficiar: IFINH București, Director Alexandru Valachi, Valoarea proiectului: 120.000.000 ROL, Perioada 2004, Membru **Petru Cașcaval**.
11. Grant de cercetare - Banca Mondiala, tip D, grant major, internațional, Codul CNCSIS 10, Comisia 2. Tema grantului: *Parallel Hard and Distributed Computing Systems. Technology and Applications*. Contract: 44059/1998. Beneficiar: Universitatea Tehnică „Gheorghe Asachi” din Iași, Director Mitică Craus, Valoare etapă 2002 : 10000 USD, Membru **Petru Cașcaval**.

12. Grant de cercetare - Banca Mondiala, tip D, grant major, internațional, Cod CNCSIS 10, Comisia 2. Tema grantului: *Parallel Hard and Distributed Computing Systems. Technology and Applications*. Contract: 44059/1998. Beneficiar: Universitatea Tehnică „Gheorghe Asachi” din Iași, Director Dan Grigoraș, Valoare etapă 2001 : 14000 USD, Membru **Petru Cașcaval**.
13. Grant de cercetare - Banca Mondiala, tip D, grant major, internațional, Cod CNCSIS 10, Comisia 2. Tema grantului: *Parallel Hard and Distributed Computing Systems. Technology and Applications*. Contract: 44059/1998. Beneficiar: Universitatea Tehnică „Gheorghe Asachi” din Iași, Director Dan Grigoraș, Valoare etapă 2000 : 46000 USD, Membru **Petru Cașcaval**.

27.10.2023

Prof. Petru Cașcaval

