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Conf. Dr. Ing. Monica DASCĂLU

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9. M. Dascălu, E. Franti, D. Colesniuc, „*Network Configuration for Cellular Automata Chip*”, EDS 2000 Proceedings, Brno, Czech Republic, pp. 100-103, decembrie **2000**
10. M. Dascălu, E. Franți, „*Architecture and Logic Design for the Game of Life Chip*”, EDS'99 Proceedings, Brno, Czech Republic, pp.100-103, decembrie **1999**
11. M. Dascălu, E. Franți, „*Architecture and Logic Design of a Hardware Version for the Game of Life*”, Buletinul Științific al UPB (Sci. Bull, series C, vol.61, nr.1-2, **1999**).
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13. M. Dascălu, E. Franți, „*Cellular Automata Circuits for Original Applications and Classical Automata*”, Buletinul Științific al UPB (Sci. Bull, series C, vol.60, nr.3-4, **1998**).
14. E. Franți, M. Dascălu, „*Interdisciplinary Laboratory for Design and Testing Integrated Circuits Based on Biological Models*”, în Proceedings of MIXDES '98, Lodz, Polonia, pp. 483-486, iunie **1998**
15. M. Dascălu, E. Franți, „*Character Recognition With Cellular Automata: Algorithm and Hardware Implementation*”, Proceedings of the International ICSC Symposium on Engineering of Intelligent Systems, ICSC Academic Press, Canada/Switzerland, vol. 3, Tenerife, Spania, pp. 409-424, februarie **1998**
16. M. Dascălu, E. Franți, „*Logical Design of a Cellular Automata for Letter Recognition*”, Proceedings of the First Electronic Circuits and Systems Conference, Bratislava, Slovakia, pp. 105-108, septembrie **1997**.
17. M. Dascălu, E. Franți, „*Pattern Recognition with Cellular Automata*”, în Volumul Jubiliar al Revistei de Informatică Medicală, octombrie **1997**, pp.20-25
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19. M. Dascălu, H. N. Teodorescu, „*Oscillating Neural Networks and Applications*”, Book of Abstracts, International AMSE Conference, Geneva, Elveția, pp. 55-57, **1992**.

Articole publicate în volumele unor manifestări științifice naționale

1. M. Dascalu, E. Franti, F. Lazo, G. Stefan, „*Cellular automata simulator for traffic modeling*”, Services and Software Architectures, Infrastructures and Engineering for Enhancing EU Citizen’s Quality of Life Workshop Bucharest, Romanian Academy Library, [ISBN 978-973-0-04939-8](#), pp. 49-55, mai 2007.
2. E. Franti, M. Dascalu, T. Alexa, F. Lazo, G. Stefan, „*Artificial prothesis with pneumatic muscles - design and applications*”, Services and Software Architectures, Infrastructures and Engineering for Enhancing EU Citizen’s Quality of Life Workshop MAY 18, 2007, Bucharest, Romanian Academy Library, [ISBN 978-973-0-04939-8](#), pp. 64-69, mai 2007.
3. S. Țiplică, M. Dascălu, E. Franți, L. Cheran, D. Forțea, “*Tratamentul cu Elocom în dermatita iritativă de contact*”, în Volumul de rezumate al Conferinței Naționale de Dermatologie, Cluj-Napoca, pp. 71, noiembrie 1997.
4. M. Dascălu, E. Franți, “*Pattern Recognition with Cellular Automata*”, în Volumul de rezumate al simpozionului MEDINF’97, Satu Mare, pp. 20, octombrie 1997.

IV LISTA PROIECTELOR CĂȘTIGATE PRIN COMPETIȚIE ÎN CALITATE DE DIRECTOR/RESPONSABIL ȘTIINȚIFIC

Proiect internațional

1. “Simulator de trafic cu automate celulare”, contract de cercetare cu CNCISIS finanțat de Banca Mondială nr. 10752/06.09.2000 (2000-2001): Contract CNCISIS Beneficiar Banca Mondiala, Contractor UPB, in calitate de director de proiect

Proiecte naționale

2. Grant CNCISIS, „Simulator pentru roboti autonomi inteligenti”, Beneficiar Ministerul Educației și Cercetării, Contractor ICIA, cod CNCISIS: 1237, perioada 2 ani, 2005 - 2006 in calitate de director de proiect pentru ICIA
3. Remote controlled robotic hand with intelligent sensory feedback for outside Earth interventions in hazardous environments – STARHAND, Finantare: Buget de stat / ROSA, Contract STAR 82 / 2013, Interval de desfasurare: 2014-2016, Beneficiar Agentia Spatiala Romana, Contractor UPB, in calitate de responsabil stiintific pentru ICIA (partener 1 in cadrul consortiuului proiectului)
4. “Sistem de criptare cu arhitectura de calcul paralela si chei evolutive” (SCRIPT), Finantare: Buget de stat, Beneficiar: Agentia Spatiala Romana (ROSA), Programul SECURITATE, Interval de desfasurare: 2005-2006, Contractor ICIA, in calitate de director de proiect pentru ICIA
5. Proiect PNII, Sistem criptografic cu algoritmi paraleli de calcul CRIPTALL, Beneficiar Centrul National de Management Programe, Contractor UPB, in calitate de responsabil stiintific pentru ICIA (partener 1 in cadrul consortiuului proiectului) 2008 - 2011, contr 82-107/2008
6. Grant CNCISIS nr. 33784/2001, tema 26, (2001-2002), “Sistem critografic cu automate celulare”, Beneficiar CNCISIS, Contractor UPB, in calitate de director de proiect
7. Sistem informatic de monitorizare si asistare personalizata a pacientilor cu membre superioare amputate - ARTHAND, Contract PN-II-PT-PCCA-2013-4-0668, Finantare: Buget de stat, Beneficiar: UEFISCDI, Interval de desfasurare: 2013-2017, Contractor UMF, in calitate de responsabil stiintific pentru UPB (partener 1 in cadrul consortiuului proiectului)
8. “Proteze locomotorii inteligente – INTELPROT” Contract nr. 11-069 /14.09.2007, Finantare: Buget de stat, Beneficiar: Centrul National de Management Programe (CNMP), in cadrul Planului National de Cercetare, Dezvoltare, Inovare II (PNCI2), Contractor UPB, in calitate de responsabil stiintific pentru ICIA (partener 2 in cadrul consortiuului proiectului), Interval de desfasurare: 2007-2010
9. „Sistem informatic de proiectare, simulare, testare si configurare a sistemelor energetice inteligente de energie regenerabila” (SINERG), Contract nr. 22140/01.10.2008, Finantare: Buget de stat, Beneficiar: Centrul National de Management Programe in cadrul Planului National de Cercetare, Dezvoltare, Inovare II (PNCI2), Contractor UPB, in calitate de responsabil stiintific pentru ICIA (partener 3 in cadrul consortiuului proiectului), Interval de desfasurare: 2008-2011
10. TOXISISTEM, “Tehnologie de realizare microsistem bazat pe biosenzori pentru detectia toxinelor utilizate in bioterorism”, Finantare: Buget de stat, Beneficiar: ROSA, Programul SECURITATE, Contractor: IMT; Interval de desfasurare: 2005-2006, in calitate de responsabil stiintific pentru ICIA

11. 2007-2010: Contract PNCDI2 (2007-2010) contr.nr. 11-006 / 14.09.2007 "Platforma integrata pentru monitorizarea paralela a activitatii electrofiziologice si a mediului chimic ale celulelor neuronale NEUROSENSE", responsabil stiintific din partea ICIA
12. Contract cercetare PNCDI2 (2008-2011), contr. Nr 12-087/2008 "Cercetari privind crearea unui model experimental al unei retele virtuale de tip mobile learning cu acces in timp real la cunoastere si invatare utilizand tehnologii de comunicatii si dispozitive terminale wireless-MOBNET", responsabil stiintific din partea ICIA
13. Contract de cercetare cu Ministerul Cercetării și Tehnologiei 1996-1999: "Familie de cipuri pentru implementarea automatelor celulare", contract Academia Română (CCIAPLPMC-CNAE) – MCT 1277/24.10.1996, director de proiect din partea CCIAPLPMC - CNAE
14. Grant de cercetare: "Metabolism: Autoorganizarea sistemelor complexe" 1997-1998, grant MCT al UPB nr. 3042 GR./1997, director de proiect din partea UPB

V COMUNICĂRI ȘTIINȚIFICE

1. M. Dascălu, E. Franți, "Aplicații ale automatelor celulare", comunicare la simpozionul "Tineretul și societatea informațională" organizat de Academia Română, iulie 1997.
2. M. Dascălu, E. Franți, "Cellular Automata Based Parallel Algorithms and Systems", comunicare la ACM Summerschool on Multimedia, Albena, Bulgaria, sept. 1997.
3. M. Dascălu, "Simulating Production, Trade and Cultural Exchanges in an Artificial Society". comunicare la simpozionul internațional "Modelling with Cellular Automata", Karlsruhe, Germania, martie 1998.
4. M. Dascălu, E. Franți, "Simulating Cultural Exchanges in Artificial Societies", comunicare la ACM Summerschool on Software Engineering, Praga, Cehia, iunie 1998.
5. M. Dascălu, E. Franți, "Traffic Simulation with Cellular Automata", Interdisciplinary Applications of Computer Science Workshop, Haifa, Israel, decembrie 2001.
6. C. Moldovan, E. Franți, M. Dascălu, A Silicon Multichannel Probe For Intracellular Neural Recording, REASON Workshop, Bratislava, decembrie 2002.

Prezentari invitate in plenul unor manifestari stiintifice internationale si profesor invitat

1. Invited presentation "Algorithms and hardware implementation for Cellular Automata", International Fall School Self-organizing systems – Algorithms and hardware, organized by University "Politehnica" of Bucharest and IMT-Bucharest, 4 - 10 oct. 2003
2. Invited presentation, "Design of Cellular Automata Based Cipher Schemes" în cadrul școlii de toamnă: Advanced methods for Systems on Chip for Ambient Intelligence International autumn school, organized by University "Politehnica" of Bucharest and IMT-Bucharest October 4-10 2004, Sinaia, România
3. Invited presentation „Built in self testing structure with cellular automata for testing combinational logic" at „Testing of Digital Systems" Workshop, Tallinn University of Technology, Talin, Estonia, mai 2005

Lucrari premiate:

Lucrarea *Evolutionary Computing systems for Obstacle Avoidance*, a fost premiata la conferinta CAS 2003, 09.10.2003, cu distincția de cea mai bună lucrare din cadrul sesiunii "Reconfigurable Systems and Applications" autori: M. Dascălu, G. Ștefan, E. Franți, S. Goschin, pp 237-240 in Proceedings of CAS

Lucrare de disertație în domeniul științelor comunicării:

Communication Issues of the Volkswagen Scandal, 80 pagini, 2016

Decembrie 2016

Monica DASCĂLU