

Lista de lucrări

Prof.dr.ing. Gabriel Oltean

Teza de doctorat (1)

1. **Oltean, G.**, Matematică nuanțată în analiza și proiectarea unor circuite electronice, Universitatea Tehnică din Cluj Napoca, 2002.
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A1.1.1. Carti, monografii, capitole ca autor – international (1)

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A1.1.2. Carti, monografii, capitole ca autor – nationale (5)

1. **Oltean, G.**, Circuite Electronice, Cluj-Napoca, ISBN 978-973-662-300-4, 203 pag., UT Pres, Cluj-Napoca, 2007;
2. Festila, Lelia, Gordan, Mihaela, Cirlugea, Mihela, **Oltean, G.**, Hintea, S., Csipkes, G., Rus, C., Groza, R., Szolga, L., Circuite analogice pentru clasificatoare masini cu vectori suport, ISBN 978-973-133-107-2, 168 pag., Editura Casa Cartii de Stiinta, Cluj-Napoca, 2007;
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A1.2.1. Material didactic/lucrari didactice (12)

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2. **Oltean, G.**, Șipos, Emilia, Miron, C., Ivanciu, Laura, Electronic Devices. Laboratory Manual, ISBN 978-973-662-542-8, 90 pag. Cluj-Napoca, U.T. Press, 2010;
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4. Șipoș, Emilia, **Oltean, G.**, Miron, C., Ivanciu, Laura, Gordan, Mihaela, Fundamental Electronic Circuits. Laboratory Manual, ISBN 978-973-662-503-9, 91 pag., Cluj-Napoca, UT Press, 2009;
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A2.1. Articole in reviste cotate si in volumele unor manifestari indexate ISI Proceedings (22)

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2. Faragó, P., Faragó, Claudia, **Oltean, G.**, Hinteá, S., An Electronically Tunable Transconductance Amplifier for Use in Auditory Prostheses, Advances in Electrical and Computer Engineering, ISSN: 1582-7445, e-ISSN: 1844-7600, Volume 15, Issue 4, DOI: 10.4316/AECE.2015.04013, 2015.
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10. **Oltean, G.**, Hintea, S., Sipos, Emilia Computational Intelligence in Analog Circuits Design, Knowledge-Based Intelligent Information and Engineering Systems, Pt 3, Proceedings, Book Series: Lecture Notes in Artificial Intelligence, Volume: 5179, Pages: 384-391, KES2008, 3-5 September 2008, Zagreb, Croatia, Publisher: Springer-Verlag Berlin, Book Chapter, DOI: 10.1007/978-3-540-85567-5; ISSN: 0302-9743, ISBN: 978-3-540-85566-8
11. Sipos, Emilia, Festila, Lelia, **Oltean, G.**, Towards Reconfigurable Circuits Based on Ternary Controlled Analog Multiplexers/Demultiplexers, Knowledge-Based Intelligent Information and Engineering Systems, Pt 3, Proceedings, Book Series: Lecture Notes in Artificial Intelligence, Volume: 5179, Pages: 351-359, KES2008, 3-5 September 2008, Zagreb, Croatia, Publisher: Springer-Verlag Berlin, Book Chapter, DOI: 10.1007/978-3-540-85567-5, ISSN: 0302-9743, ISBN: 978-3-540-85566-8.;
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14. Dornean, Irina, Topa, Marina, Kirei, B., **Oltean, G.** HDL Implementation of the Variable Step Size N-LMS Adaptive Algorithm, IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2008 (THETA 16), May 22 - 25, Cluj-Napoca, Romania, ISBN 978-973-713-248-2;
15. Popa Camelia, Gordan Mihaela, Vlaicu, A., Orza, B., **Oltean, G.**, Compressed Domain Implementation of Fuzzy-Rule-Based Contrast Enhancement, 9th WSEAS International Conference on FUZZY SYSTEMS (FS'08), May 2-4, Sofia, Bulgaria, 2008, ISBN 978-960-6766-57-2, ISSN 1790-5109, pp. 149-155
16. **Oltean, G.**, Sipos, Emilia, Simulink Implementation of Fuzzy Functional Models for Analog Modules, IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics, AQTR 2006 (THETA 15), May 25 - 28, Cluj-Napoca, Romania, Tome I, ISBN 1-4244-0360-X, IEEE Catalog Number: 06EX1370, pp.90-95; DOI: 10.1109/AQTR.2006.254504
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4. Sipos, Emilia, **Oltean, G.**, Miron, C., Simulink Library of Basic Building Blocks for Ternary Logic, Acta Technica Napocensis. Electronics and Telecommunications, Nr. 2/2009, ISSN 1221-6542, Vol.50, pp. 31-36;
5. **Oltean, G.**, Gordan, Mihaela, Sipos, Emilia, Stăncel, E., Dancea, O., Fuzzy Logic Based Decision Making for Hydroelectric Energy Generation in a Cascaded Hydropowerplants, Acta Technica Napocensis. Electronics and Telecommunications, Nr. 1/2009, ISSN 1221-6542, Vol.50, pp. 42-48; revista CNCSIS cotata B+;
6. **Oltean, G.**, Hintea, S., Sipos, Emilia, Analog Circuit Design based on Computational Intelligence Techniques, Journal of Automation, Mobile Robotics & Intelligent Systems, ISSN 1897-8649, Vol. 3, No. 2, 2009, pp. 63-69;
7. **Oltean, G.**, Fuzzy Techniques in Analog Circuit Design, WSEAS Transactions on Circuits and Systems, Issue 5, Volume 7, May 2008, ISSN: 1109-2734. pp. 402-415.,
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32. **Oltean, G.**, Sipos, E. Functional Modeling of a Transconductance Amplifier using Fuzzy Systems, Proc. of the International Workshop Control and Information Technology IWCIT 2005, Ostrava, ISBN 80-248-0906-0, Czech Republic, 15-16 September, 2005, pp. 135-138

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A2.4.1.2. Granturi/proiecte castigate prin competitie: director/responsabil de contract (2)

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2. Dezvoltarea unui instrument de proiectare asistata de calculator pentru optimizarea proiectarii circuitelor analogice, folosind tehnici fuzzy, Ministerul Educatiei si Cercetar; 2001: Tema B17; 2002: Tema AT14, Contract nr.: 7067 GR /2001; 2001 – 2002.

A2.4.2.1. Granturi/proiecte castigate prin competitie: membru echipa – international (1)

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2. Sistem inteligent distribuit pentru managementul resurselor tehnologice ale amenajarilor hidroenergetice – MAREA, Contract PN2, 2007, subcontract de finantare nr. 11004 / 2/ septembrie 2007, perioada 2007-2010, Coordonator proiect: IPA Cluj, partener proiect: UTCN – responsabil proiect din partea UTCN: conf. dr. ing. Mihaela Gordan; 2007-2010.
3. Sistem integrat, suport decizional bazat pe fuziunea informatiilor multisenzoriale pentru supravegherea si predictia comportarii barajelor si amenajarilor hidrotehnice - FUZIBAR, Contract CEEEX 2006, contract nr. 705 / 24.07.2006, perioada 2006-2008, Coordonator proiect: IPA Cluj, partener proiect: UTCN, responsabil contract din partea UTCN: conf.dr.ing Mihaela Gordan; 2006-2008.
4. Dezvoltarea unor sisteme bazate pe masini cu vectori suport, de viteza ridicata, pentru analiza si clasificarea imaginilor. CNCSIS 2004-2006, Director proiect prof.dr.ing. Lelia Festila, Tema nr. A22, Cod CNCSIS: 1044, 2004-2006.
5. Detector ultrasensibil de explozivi - DETEX, grant CERES – PNCDI parteneriat cu INCDTIM Cluj Napoca si UBB Cluj Napoca, nr 3-73/7.11.2003, director din partea UTCN prof.dr.ing. Miron COSTIN, 2003-2005, 2003-2005.
6. Sistem telematic inteligent pentru monitorizarea si controlul starii barajelor prin inspectie computerizata CONBAR” – colaborare cu IPA Cluj, director din partea UTCN prof.dr.ing. Miron COSTIN, contract PNCDI-INFOSOC, 2002-2004, 2002-2004.
7. Tehnici moderne de analiza a imaginilor folosind inteligenta artificiala, cu aplicabilitate in indexarea bazelor de date multimedia. Studiul si dezvoltarea unor metode moderne (cu tehnici de invatare inteligente) de modelare a obiectelor din imagini digitale, responsabil grant: Gordan Mihaela, Ministerul Educatiei si Cercetarii, Tema A23, 2001.
8. Sisteme inteligente de monitorizare si control a incarcarii acumulatorilor utilizand ca sursa primara de energie, energia solara, responsabil grant: Miron Costin, ANSTI, Tema B11 (2000), tema A6 (2001), 2000-2001.
9. Analiza semnalelor electrice folosind tehnici fuzzy. Aplicatii in prelucrarea imaginilor si in proiectarea circuitelor electronice, Responsabil grant: Miron Costin, CNCSIS, GRANT NO. 33830/1999-622, 1999, GRANT NO. 337118/2000-624, 2000; 1999-2000.
10. Dezvoltarea unor metode bazate pe logica fuzzy cu aplicatii in testarea unor sisteme electronice, responsabil grant: Miron Costin. CNCSU, grant no. 5003/96-144, 1995-1996.
11. Proiectare de circuite ASIC destinate aplicațiilor de prelucrari de imagini. Contract S.C. PITAGORASIC S.R.L. , Brasov, 2006 -2007.
12. Studiu asupra transferului automat al datelor pentru automatele de vânzări de produse”, Contract S.C. DARARA S.R.L., Cluj-Napoca, 2005.
13. Proiect POSDRU/22/2.1/G/24450, “Partnership for the practical placement of students (P3S). - Manager proiect - Prof. dr. ing. Marina Topa, 2009-2011.
14. Proiect POSDRU 60891 „Scoala universitara de formare initiala si continua a personalului didactic si a trainerilor din domeniul specializarilor tehnice si ingineresti - DIDATEC”, manager proiect - Prof.dr.ing. Aurel VLAICU, 2010-2013.
15. Proiect POSDRU/90/2.1/S/61811, “Practica-primul pas pentru cariera ta”, Solicitant: ADR Bucuresti Ilfov, partener: UTCN; 2011-1012.