

LISTA DE LUCRĂRI

GHEORGHE Alexandru Gabriel - Dr. din 2010, Șef de lucrări din 2012

Lista celor maximum 10 lucrari considerate de candidat a fi cele mai relevante pentru realizarile profesionale proprii, care sunt incluse în dosar si care se pot regasi si în celelalte categorii de lucrari prevazute de prezentul articol.

1. **Al. G. Gheorghe**, F. Constantinescu, M. Nitescu, “*Efficiency of the envelope following analyses*”, International Symposium on Signals, Circuits and Systems, 12-13 iulie, 2007, Iasi, ROMANIA, ISBN: 1-4244-0969-1, DOI: 10.1109/ISSCS.2007.4292776, pp. 517-520. <http://www.scopus.com>, <http://ieeexplore.ieee.org>
2. **Al. G. Gheorghe**, C. V. Marin, F. Constantinescu; M. Nitescu, “*A new circuit model for body cell mass prediction*”, 4th European Conference on Circuits and Systems for Communications (ECCSC 08), 10-11 iulie, 2008, Politehn Univ, Bucuresti, ROMANIA, ISBN: 978-1-4244-2420-7, DOI: 10.1109/ECCSC.2008.4611674, pp. 189-192. <http://www.scopus.com>, <http://ieeexplore.ieee.org> (ISI - THOMSON REUTERS)
3. F. Constantinescu, **Al. G. Gheorghe**, M. Nitescu “*New circuit models of power BAW resonators*”, Revue Roumaine des Sciences Techniques-Serie Electrotechnique et Energetique, ISSN: 0035-4066, Vol. 53, Nr. 1, 2008, pp. 67-73, <http://revue.elth.pub.ro>, (ISI - THOMSON REUTERS).
4. F. I. Hantila, F. Constantinescu, **Al. G. Gheorghe**, et al., “*A New Algorithm For Frequency Domain Analysis Of Nonlinear Circuits*”, Revue Roumaine des Sciences Techniques-Serie Electrotechnique et Energetique, ISSN: 0035-4066, Vol. 54, Nr. 1, 2009, pp. 57-66, <http://revue.elth.pub.ro>, (ISI - THOMSON REUTERS).
5. F. Constantinescu, **Al. G. Gheorghe**, M. Nitescu, „*The energy balance error for circuit transient analysis*”, Revue Roumaine des Sciences Techniques-Serie Electrotechnique et Energetique, ISSN: 0035-4066, Nr.3, 2010, pp. 243-250, <http://revue.elth.pub.ro>, (ISI - THOMSON REUTERS).
6. **Al. G. GHEORGHE**, F. Constantinescu, “*Solution computation for resistive circuits containing companion models*”, UNIVERSITY POLITEHNICA OF BUCHAREST, SCIENTIFIC BULLETIN SERIES C - ELECTRICAL ENGINEERING, ISSN 1454-234x, Vol. 72, Nr. 4, 2010, <http://www.scientificbulletin.upb.ro>, (INSPEC).
7. F. Constantinescu, **Al. G. Gheorghe**, M. Nitescu, A. Florea, O. Llopis, P. Taras, “*Parameter Identification for Nonlinear Circuit Models of Power BAW Resonator*”, Advances in Electrical and Computer Engineering, ISSN: 1582-7445, e-ISSN: 1844-7600, DOI: 10.4316/aece, Nr. 1, 2011, pp. 55-62, www.aece.ro, (ISI - THOMSON REUTERS).
8. F. Constantinescu, **Al. G. Gheorghe**, A. Florea, M. Nițescu, O. Llopis, „*Artificial Transmission Line Model for Power BAW Resonators*”, Revue Roumaine des Sciences Techniques-Serie Electrotechnique et Energetique, ISSN: 0035-4066, Nr.2, 2011, pp 237 – 246 <http://revue.elth.pub.ro>, (ISI - THOMSON REUTERS).
9. **Al. G. Gheorghe**, F. Constantinescu, M. Nitescu, „*A New Algorithm for Envelope Following Analysis*”, Revue Roumaine des Sciences Techniques-Serie Electrotechnique et Energetique, Nr.2, 2011, pp 229 – 236, <http://revue.elth.pub.ro>, (ISI - THOMSON REUTERS).
10. F. Constantinescu, M. Nitescu, **A. G. Gheorghe**, A. Florea, O. Llopis, „*Behavioral circuit models of power BAW resonators and filters*”, Analog Integrated Circuit and Signal Processing, ISSN 0925-1030, DOI: 10.1007/s10470-011-9758-7 Vol. 73, Nr 1, 2012, pp.57-64, (ISI - THOMSON REUTERS).

I. TEZA DE DOCTORAT (T)

T1. “*Metode noi de analiză a circuitelor neliniare de RF*”; Doctorand: ing. **Al. G. Gheorghe**, Îndrumător: prof. dr. ing. F. Constantinescu.

II. CĂRȚI PUBLICATE (C)

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III. ALTE MATERIALE PUBLICATE (I,D)

I - Culegeri și Îndrumare publicate (separate în edituri cu ISBN și în tipografiile locale/de instituții sau de uz intern).

II. F. Constantinescu, **Al. G. Gheorghe**, M. Nitescu, C. V. Marin, A. Ionescu, “*Simularea circuitelor electrice - lucrari de laborator*”, Editura Printech, 2011, ISBN 978-606-521-716-4, 221 pg.

12. Al. G. Gheorghe, “Culegere de probleme de teoria circuitelor” Editura POLITEHNICA PRESS, 2014, ISBN 978-606-515-547-3, 177 pg.

D - Alte lucrări publicate: capitole publicate în volume colective, capitole teoretice redactate, sisteme de laborator funcționale etc.

D1. Capitol de carte: D. Popovici, F. Constantinescu, M. Maricaru, F. I. Hantila, M. Nitescu and **Al. G. Gheorghe**, capitolul 25 “*Modeling and simulation of piezoelectric devices*” pp. 471-500, Recent Advances in Modelling and Simulation, I-Tech Education and Publishing, Viena, Austria, iunie 2008, ISBN 978-3-902613-25-7.

IV. ARTICOLE / STUDII IN EXTENSO PUBLICATE (R,V)

Ris - Reviste de specialitate de circulație internațională recunoscute (cotate / indexate ISI Thomson Reuters, sau indexate in alte Baze de Date Internationale - BDI specifice domeniului, care fac un proces de selectie a revistelor pe baza unor criterii de performanta).

Ris1. M. Nitescu, F. Constantinescu, **Al.-G. Gheorghe**, L. Dumitriu, “*Fast Solving of a Linear Parametric Model of a BAW Resonator*”, Annals of the University of Craiova, Electrical Engineering series (CNCSIS B+ category journal), ISSN 1842-4805, No. 30, 2006, pp 32-35, <http://elth.ucv.ro/fisiere/anale/index.htm>.

Ris2. F. Constantinescu, **Al. G. Gheorghe**, M. Nitescu, “*New circuit models of power BAW resonators*”, Revue Roumaine des Sciences Techniques-Serie Electrotechnique et Energetique, ISSN: 0035-4066, Vol. 53, Nr. 1, 2008, pp. 67-73, <http://revue.elth.pub.ro>, (ISI - THOMSON REUTERS).

Ris3. F. I. Hantila, F. Constantinescu, **Al. G. Gheorghe**, et al., “*A New Algorithm For Frequency Domain Analysis Of Nonlinear Circuits*”, Revue Roumaine des Sciences Techniques-Serie Electrotechnique et Energetique, ISSN: 0035-4066, Vol. 54, Nr. 1, 2009, pp. 57-66, <http://revue.elth.pub.ro>, (ISI - THOMSON REUTERS).

Ris4. F. Constantinescu, **Al. G. Gheorghe**, M. Nitescu, „*The energy balance error for circuit transient analysis*”, Revue Roumaine des Sciences Techniques-Serie Electrotechnique et Energetique, ISSN: 0035-4066, Nr.3, 2010, pp. 243-250, <http://revue.elth.pub.ro>, (ISI - THOMSON REUTERS).

Ris5. F. Constantinescu, **Al. G. Gheorghe**, M. Nitescu, A. Florea, O. Llopis, P. Taras, “*Parameter Identification for Nonlinear Circuit Models of Power BAW Resonator*”, Advances in Electrical and Computer Engineering, ISSN: 1582-7445, e-ISSN: 1844-7600, DOI: 10.4316/aece, Nr. 1, 2011, pp. 55-62, www.aece.ro, (ISI - THOMSON REUTERS).

Ris6. F. Constantinescu, **Al. G. Gheorghe**, A. Florea, M. Nițescu, O. Llopis, „*Artificial Transmission Line Model for Power BAW Resonators*”, Revue Roumaine des Sciences Techniques-Serie Electrotechnique et Energetique, ISSN: 0035-4066, Nr.2, 2011, pp 237 – 246 <http://revue.elth.pub.ro>, (ISI - THOMSON REUTERS).

Ris7. **Al. G. Gheorghe**, F. Constantinescu, M. Nitescu, „*A New Algorithm for Envelope Following Analysis*”, Revue Roumaine des Sciences Techniques-Serie Electrotechnique et Energetique, Nr.2, 2011, pp 229 – 236, <http://revue.elth.pub.ro>, (ISI - THOMSON REUTERS).

Ris8. F. Constantinescu, M. Nitescu, **Al. G. Gheorghe**, A. Florea, O. Llopis, „*Behavioral circuit models of power BAW resonators and filters*”, Analog Circuit Design and Signal Processing, ISSN 0925-1030, DOI: 10.1007/s10470-011-9758-7 Vol. 73, Nr 1, 2012, pp.57-64, (ISI - THOMSON REUTERS)

Ris9. **Al. G. GHEORGHE**, C. V. Marin, F. Constantinescu, M. Nitescu, “*Parameter Identification for a New Circuit Model Aimed to Predict Body Water Volume*”, Advances in Electrical and Computer Engineering, ISSN: 1582-7445, e-ISSN: 1844-7600, DOI: 10.4316/AECE.2012.04013, Nr. 4, 2012, pp. 83 - 86, www.aece.ro, (ISI - THOMSON REUTERS).

Ris10. **Al. G. Gheorghe**, M. Nitescu, F. Constantinescu, „*Circuit Models for Anti-series and Anti-parallel Connections of Power Bulk Acoustic Wave Resonators*”, ELECTROTEHNICA, ELECTRONICA, AUTOMATICA, ISSN 1582-5175, Vol. 57, Nr.3, 2009, pp.17-19, <http://www.editura-electra.ro>, (COPERNICUS).

Ris11. **Al. G. GHEORGHE**, F. Constantinescu, “*Solution computation for resistive circuits containing companion models*”, UNIVERSITY POLITEHNICA OF BUCHAREST, SCIENTIFIC BULLETIN SERIES C - ELECTRICAL ENGINEERING, ISSN 1454-234x, Vol. 72, Nr. 4, 2010, <http://www.scientificbulletin.upb.ro>, (INSPEC).

Ris12. F. Constantinescu, **Al. G. Gheorghe**, M. Nițescu, „*A Capacitive Accelerometer Model*”, Revue Roumaine des Sciences Techniques-Serie Electrotechnique et Energetique, ISSN: 0035-4066, Nr.2, 2013, pp 163 – 172 <http://revue.elth.pub.ro>, (ISI - THOMSON REUTERS).

Vis - Volumele unor manifestări științifice internaționale recunoscute, organizate în țară și străinătate, indexate ISI Thomson Reuters sau indexate in alte Baze de Date Internationale - BDI specifice domeniului, care fac un proces de selectie a publicatiilor pe baza unor criterii de performanta.

- Vis1.** F. Constantinescu, **Al. G. Gheorghe**, C. D. Ioan, M. Nitescu, M. Iordache, L. Dumitriu, “*A new approach to the computation of reduced order models for one-port and two-port RC circuits*”, IEEE International Symposium on Circuits and Systems, 21-24 mai, 2006, Kos Isl, GREECE, ISBN: 0-7803-9389-9, DOI: 10.1109/ISCAS.2006.1693506, pp. 4002-4005. <http://www.scopus.com>, <http://ieeexplore.ieee.org> (ISI - THOMSON REUTERS)
- Vis2.** **Al. G. Gheorghe**, F. Constantinescu, M. Nitescu, “*Efficiency of the envelope following analyses*”, International Symposium on Signals, Circuits and Systems, 12-13 iulie, 2007, Iasi, ROMANIA, ISBN: 1-4244-0969-1, DOI: 10.1109/ISSCS.2007.4292776, pp. 517-520. <http://www.scopus.com>, <http://ieeexplore.ieee.org>
- Vis3.** F. Constantinescu, M. Nitescu, **Al. G. Gheorghe**, “*Circuit models for power BAW resonators - Set-up and implementation*”, 8th IEEE Africon Conference, 26-28 sept., 2007, Windhoek, NAMIBIA, ISBN: 978-1-4244-0987-7, DOI: 10.1109/AFRCON.2007.4401629, pp. 1262-1266. <http://www.scopus.com>, <http://ieeexplore.ieee.org> (ISI - THOMSON REUTERS)
- Vis4.** M. Nitescu, F. Constantinescu, **Al. G. Gheorghe**, “*Modeling of power BAW resonators*”, 5th International Conference on Applied Electromagnetics, Wireless and Optical Communications, ELECTROSCIENCE'07, 14-16 dec., 2007, Puerto de la Cruz, SPAIN, ISBN: 978-960-6766-25-1, pp. 103-106. <http://dl.acm.org> (ISI - THOMSON REUTERS)
- Vis5.** **Al. G. Gheorghe**, C. V. Marin, F. Constantinescu, M. Nitescu, “*A new circuit model for body cell mass prediction*”, 4th European Conference on Circuits and Systems for Communications (ECCSC 08), 10-11 iulie, 2008, Politehn Univ, Bucuresti, ROMANIA, ISBN: 978-1-4244-2420-7, DOI: 10.1109/ECCSC.2008.4611674, pp. 189-192. <http://www.scopus.com>, <http://ieeexplore.ieee.org> (ISI - THOMSON REUTERS)
- Vis6.** I. F. Hantila, F. Constantinescu, **Al. G. Gheorghe**, M. Nitescu, “*A frequency domain method for analysis of dynamic circuits with resistive nonlinearities*”, 4th European Conference on Circuits and Systems for Communications (ECCSC 08), 10-11 iulie, 2008, Politehn Univ, Bucuresti, ROMANIA, ISBN: 978-1-4244-2420-7, DOI: 10.1109/ECCSC.2008.4611677, pp. 201-204. <http://www.scopus.com>, <http://ieeexplore.ieee.org> (ISI - THOMSON REUTERS)
- Vis7.** M. Nitescu, F. Constantinescu, **Al. G. Gheorghe**, “*An A.C. linear parametric behavioral model of a nonlinear BAW resonator*”, 4th European Conference on Circuits and Systems for Communications (ECCSC 08), 10-11 iulie, 2008, Politehnica University, Bucuresti, ROMANIA, ISBN: 978-1-4244-2420-7, DOI: 10.1109/ECCSC.2008.4611671, pp.176-179. <http://www.scopus.com>, <http://ieeexplore.ieee.org> (ISI - THOMSON REUTERS)
- Vis8.** F. Constantinescu, M. Nitescu, **Al. G. Gheorghe**, C. V. Marin, “*A method for one port and two-port RC circuit synthesis*”, 7th WSEAS International Conference on Circuits, Systems, Electronics, Control & Signal Processing CSECS'08, 15-17 dec., 2008, Puerto de la Cruz, SPAIN, ISBN: 978-960-474-035-2, pp. 124-127. <http://dl.acm.org> (ISI - THOMSON REUTERS)
- Vis9.** F. Constantinescu, **Al. G. Gheorghe**, M. Nitescu, „*A Time Step Choice Algorithm for Transient Analysis of Circuits*”, AFRICON 2009, Nairobi, Kenya, 23-26 sept., 2009, ISBN: 978-1-4244-3919-5, DOI: 10.1109/AFRCON.2009.5308136, pp. 619-622. <http://ieeexplore.ieee.org> (ISI - THOMSON REUTERS)
- Vis10.** G. I. Stroe, A. Florea, O. Llopis, F. Constantinescu, **Al. G. Gheorghe**, M. Nitescu, „*Measurement of Nonlinear Effects for Anti-series and Anti-parallel Connections of Power Bulk Acoustic Wave Resonators*”, IEEE COMCAS 2011, Tel Aviv; Israel, 7-9 nov., 2011, ISBN: 978-1-4577-1692-8, DOI: 10.1109/COMCAS.2011.6105806. <http://ieeexplore.ieee.org> (ISI - THOMSON REUTERS)
- Vis11.** F. Constantinescu, **Al. G. Gheorghe**, Miruna Nitescu, Aurelian Florea, Olivier Llopis, “*Physical and Behavioral Circuit Models of Power BAW Resonators*”, ICCSC 2011, june 30 - july 1, 2011, Iasi, Romania, 978-1-61284-944-7, DOI: 10.1109/ISSCS.2011.5978717, pp.1-4. <http://ieeexplore.ieee.org>
- Vis12.** F. Constantinescu, **Al. G. Gheorghe**, M. Nitescu, A. Florea, „*Nonlinear artificial line models for power BAW resonators*”, AFRICON 2011, 13-15 sept., 2011, Livingstone, Zambia, ISSN: 2153-0025, ISBN: 978-1-61284-992-8, DOI: 10.1109/AFRCON.2011.6072051. <http://ieeexplore.ieee.org> (ISI - THOMSON REUTERS)
- Vis13.** F. Constantinescu, M. Nitescu, **Al. G. Gheorghe**, “*New Nonlinear Circuit Models for Power BAW Resonators*”, ICCSC 2008, 26-28 mai 2008, Shanghai, China, ISBN: 978-1-4244-1708-7, DOI: 10.1109/ICCSC.2008.133, pp. 599-603. <http://www.scopus.com>, <http://ieeexplore.ieee.org>
- Vis14.** **Al. G. Gheorghe**, F. Constantinescu, M. Nitescu, „*Error control in circuit transient analysis*”, 2009 IEEE International Conference on Electronics Circuits and Systems, Medina Hammamet, Tunis, 13-16 dec., 2009, ISBN: 978-1-4244-5091-6, DOI: 10.1109/ICECS.2009.5410972, pp. 207-210. <http://ieeexplore.ieee.org>
- Vis15.** F. Constantinescu, **Al. G. Gheorghe**, M. Nitescu, „*Circuit Models of Passive One-ports with Resistive and Capacitive Behavior*”, International Symposium on Electrical and Electronics Engineering, 16-18 sept., 2010, ISEEE 2010, Galați, Romania, ISBN: 978-1-4244-8406-5, DOI: 10.1109/ISEEE.2010.5628477, pp. 1-4. <http://www.scopus.com>, <http://ieeexplore.ieee.org>
- Vis16.** F. Constantinescu, M. Nitescu, **Al. G. Gheorghe**, „*Modeling and Simulation of Power BAW Resonators and Filters*”, SM2ACD 2010, 5-6 oct., 2010, Tunis-Gammarth, Tunisia, ISBN: 978-1-4244-6816-4, DOI: 10.1109/SM2ACD.2010.5672356. <http://www.scopus.com>, <http://ieeexplore.ieee.org> (ISI - THOMSON REUTERS)

- Vis17.** F. Constantinescu, M. Nitescu, **Al. G. Gheorghe**, “*Circuit Models for Power Baw Resonators*”, 2010 IEEE 26-th Convention of Electrical and Electronics Engineers in Israel, 17-20 nov, 2010, Eilat, Israel, ISBN: 978-1-4244-8681-6, DOI: 10.1109/EEEI.2010.5662086, pp. 849-853. <http://www.scopus.com>, <http://ieeexplore.ieee.org>
- Vis18.** **Al. G. Gheorghe**, F. Constantinescu, “*Pole/zero computation for linear circuits*”, 6-th European Symposium on Computer Modeling and Simulation, Malta, 14-16 nov., 2012, DOI: 10.1109/EMS.2012.85, pp. 477-480, ISBN: 978-1-4673-4977-2. <http://ieeexplore.ieee.org>
- Vis19** **Al. G. Gheorghe**, F. Constantinescu, G. I. Stroe, M. Nitescu, O. Llopis, “*Behavioral models for the anti-series and anti-parallel connections of two power BAW resonators*”, 6-th European Symposium on Computer Modeling and Simulation, Malta, 14-16 nov., 2012, DOI: 10.1109/EMS.2012.81, pp. 401-405, ISBN: 978-1-4673-4977-2. <http://ieeexplore.ieee.org>
- Vis20.** I. G. Stroe, F. Constantinescu, **Al. G. Gheorghe**, M. Nitescu, O. Llopis, “*Measurement and Modeling of Nonlinear Effects for Power BAW Filters with AlN*”, ATEE 2013, 23-25 may, 2013, Bucuresti, Romania, DOI: 10.1109/ATEE.2013.6563473, pp: 1-4, Print ISBN: 978-1-4673-5979-5, INSPEC Accession Number: 13778451. <http://ieeexplore.ieee.org>
- Vis21.** **Al. G. Gheorghe**, F. Constantinescu, M. Nitescu, “*Improved LR Algorithm for Computation of the Approximate Symbolic Pole/Zero Expressions*”, AFRICON 2013, Mauritius, 9-12 sept., 2013, DOI: 10.1109/AFRCON.2013.6757796, pp. 1-4, ISSN: 2153-0025, Print ISBN: 978-1-4673-5940-5, INSPEC Accession Number: 14147294. <http://ieeexplore.ieee.org>
- Vis22.** **Al. G. Gheorghe**, F. Constantinescu, M. E. Marin, Miruna Nitescu, “*The Envelope Following Analysis of a Buck Converter with Closed Loop Control*”, 4-th International Symposium on Electrical and Electronics Engineering, 11 - 13 Oct. 2013, DOI: 10.1109/ISEEE.2013.6674359, pp. 1-5, ISBN 978-1-4799-2442-4, INSPEC Accession Number: 13936673, Galati ROMANIA. <http://ieeexplore.ieee.org>
- Vis23.** F. Constantinescu, M. Nitescu, **A. G. Gheorghe**, Mi. E. Marin, D. Rogobete, A. C. Tarnoveanu, A. M. Vizanti, “*A New Approach to Intelligent Search in Electrical Engineering Literature*”, 5th International Conference on Information, Intelligence, Systems and Applications July 7-9 2014, Chania, Crete, Greece, <http://iisa2014.unipi.gr>
- Vis24.** M. E. Marin, C. Brînzei, F. Constantinescu, **Al. G. Gheorghe**, I. Ursac, “*Design of an 8 bit current-steering DAC for a GSM transmitter*”, International Symposium on Fundamentals of Electrical Engineering 2014 (ISFEE 2014), University POLITEHNICA of Bucharest, Romania, November 28-29, 2014.

Vi - Volumele unor manifestări științifice internaționale recunoscute, organizate în țară și străinătate;

- Vi1.** F. Constantinescu, **Al. G. Gheorghe**, D. Ioan, M. Nitescu, „*Building Reduced Order Circuit Models via Internal Node Elimination*”, SMACD '04, International Workshop on Symbolic Methodes and Application on Circuit Design, Wroclaw, Polonia 23-24 sept. 2004, pp. 96-99.
- Vi2.** F. Constantinescu, M. Nitescu, **Al. G Gheorghe**, “*Parameter Identification for a Behavioral Model of a Nonlinear BAW Resonator*”, NDES 2006 (Nonlinear Dynamics Of Electronic Systems), 6-9 iunie, 2006, University of Burgundy, Dijon, France, pp. 14-17.
- Vi3.** M. Nitescu, F. Constantinescu, **Al. G. Gheorghe**, „*Fast solving of a linear parametric A.C. model using a symbolic admittance expression*”, SMACD: Proceedings of the Workshop on Symbolic Methods and Applications to Circuit Design, Firenze, Italia, 12-13 oct., 2006, pp. 16-20.
- Vi4.** F. Constantinescu, M. Nitescu, **Al. G. Gheorghe**, “*New Circuit Models for Power BAW Resonators*”, Proceedings of Xth International Workshop on Symbolic and Numerical Methods, Modeling and Applications to Circuit Design (SM2ACD 2008), Institut für Mikroelektronik- und Mechatronik-Systeme GmbH, Erfurt, Germany, 7-8 oct., 2008, pp.216-220, ISBN 978-3-00-025761-2. (ISI - THOMSON REUTERS)
- Vi5.** **Al. G. Gheorghe**, C. V. Marin, F. Constantinescu, M. Nitescu, “*A new RC model for body cell mass prediction*”, Proceedings of Xth International Workshop on Symbolic and Numerical Methods, Modeling and Applications to Circuit Design (SMACD 2008), Institut für Mikroelektronik- und Mechatronik-Systeme GmbH, Erfurt, Germany, 7-8 oct., 2008, pp.221-226, ISBN 978-3-00-025761-2. (ISI - THOMSON REUTERS)
- Vi6.** F. Constantinescu, **Al. G. Gheorghe**, M. Nitescu, „*A time step choice algorithm for transient analysis of circuits*”, JAPMED'6, 27-29 iulie 2009, Bucuresti, Romania, ISBN 978-606-521-346-3, extended summary p.91.
- Vi7.** **Al. G. Gheorghe**, D. Chiriac, F. Constantinescu, „*A reduced order circuit model for an interdigital capacitor*”, JAPMED'6, 27-29 iulie 2009, Bucuresti, Romania, ISBN 978-606-521-346-3, extended summary p. 203.
- Vi8.** **Al. G. Gheorghe**, F. Constantinescu, M. Nitescu, „*Transient Computation of DC-DC Converters Using a New Envelope Following Method*”, SMACD 2012, Seville, Spain, 19-21 sept. 2012, DOI: 10.1109/SMACD.2012.6339381, pp. 229 - 232, ISBN: 978-1-4673-0685-0, ISBN: 978-1-4673-0685-0. <http://ieeexplore.ieee.org>
- Vi9.** F. Constantinescu, **Al. G. Gheorghe**, G. I. Stroe, M. Nitescu, O. Llopis, „*A Nonlinear Circuit Model for a Three BAW Resonator Filter Working at High Power Level*”, SMACD 2012, Seville, Spain, 19-21 sept. 2012, DOI: 10.1109/SMACD.2012.6339382, pp. 233 – 236, ISBN: 978-1-4673-0685-0. <http://ieeexplore.ieee.org>

Vn - Volumele unor manifestări științifice naționale.

- Vn1. Al. G. Gheorghe**, F. Constantinescu, D. Ioan, M. Nitescu, „*Passive reduced order models of large scale RC circuits*”, SNET '04, Simpozionul National de Electrotehnica Teoretica, Bucuresti 22-23 oct. 2004, ISBN 973-718-096-8.
- Vn2. Al. G. Gheorghe**, „*Determinarea raspunsului periodical circuitelor neliniare de radiofrecventa cu SPECTRE RF*”, SNET '04, Simpozionul National de Electrotehnica Teoretica, Bucuresti 22-23 oct. 2004, ISBN 973-718-096-8.
- Vn3. Al. G. Gheorghe**, „*Calculul raspunsului periodic al circuitelor neliniare de RF cu metoda urmaririi infasuratoarei implementata in SPECTRE RF*”, ATEE '04, Advanced Topics in Electric Engineering, Bucuresti, 23-24 nov. 2004.
- Vn4.** F. Constantinescu, **Al. G. Gheorghe**, D. Ioan, M. Nitescu, „*A new approach to the computation of reduced order circuit models of RC circuits*” ATEE '04, Advanced Topics in Electric Engineering, Bucuresti, 23-24 nov. 2004.
- Vn5. Al. G. Gheorghe**, F. Constantinescu, „*Steady State Analysis Implementation Using SPECTRE RF Sensitivity Computation*”, SNET '05, Simpozionul National de Electrotehnica Teoretica, Bucuresti 12-13 mai 2005, ISBN 973-618-268-5.
- Vn6.** M. Nitescu, F. Constantinescu, **Al. G. Gheorghe**, „*A.C. Analysis of Circuits with “Energetic” Parametric Models*”, Proceedings of ATEE: “Advanced Topics in Electrical Engineering”, Politehnica University, Bucuresti, Romania, 24-25 nov., 2006, pp. 195-197, ISBN 973-8987-12-1 ISBN 978-973-8987-12-8 ISBN 973-8987-14-8 ISBN 978-973-8987-41-2.
- Vn7.** F. Constantinescu, **Al. G. Gheorghe**, M. Nitescu, „*Large signal analysis of RF circuits – an overview*”, Proceedings of ATEE: “Advanced Topics in Electrical Engineering”, Politehnica University, Bucuresti, Romania, 24-25 nov., 2006, ISBN 973-8987-12-1 ISBN 978-973-8987-12-8 ISBN 973-8987-14-8 ISBN 978-973-8987-41-2.
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- Vn9.** F. Constantinescu, M. Nitescu, **Al. G. Gheorghe**, „*Simulation of nonlinear effects in power BAW resonators and filters*”, SNET 2007 Simpozionul National de Electrotehnica Teoretica, Bucuresti 12 - 14 oct. 2007. ISBN(10) 973-8987-12-1, ISBN(13) 978-973-8987-12-8, pp. 114-119.
- Vn10. Al. G. Gheorghe**, C. V. Marin, F. Constantinescu, M. Nitescu, „*Synthesis of a new RC model for body cell mass prediction*”, Simpozionul Național de Electrotehnică Teoretică (SNET), 5-7 iunie 2008, București, ISBN 978-606-521-045-5.
- Vn11.** F. I. Hantila, F. Constantinescu, M. Maricaru, M. Nitescu, **Al. G. Gheorghe**, „*A new method for solving steady-state nonlinear circuits*”, Simpozionul Național de Electrotehnică Teoretică (SNET), 5-7 iunie 2008, București, ISBN 978-606-521-045-5.
- Vn12.** F. Constantinescu, **Al. G. Gheorghe**, M. Nitescu, „*The Energy Balance Error for Circuit Transient Analysis*”, Advanced Topics in Electrical Engineering, ATEE'08, 20-21 nov., 2008, Bucuresti, Romania, ISBN 978-606-521-137-7.
- Vn13. Al. G. Gheorghe**, M. Nitescu, F. Constantinescu, „*Circuit Models for Anti-series and Anti-parallel Connections of Power BAW Resonators*”, Advanced Topics in Electrical Engineering, ATEE'08, 20-21 nov., 2008, Bucuresti, Romania, ISBN 978-606-521-137-7.
- Vn14. Al. G. Gheorghe**, F. Constantinescu, „*Rezolvarea numerica a circuitelor rezistive care contin modele companion*”, Simpozionul National de Electrotehnica Teoretica (SNET' 09), 27 nov. 2009, pp. 93-98.
- Vn15.** F. Constantinescu, **Al. G. Gheorghe**, „*A new envelope following algorithm*”, Simpozionul Național de Electrotehnică Teoretică (SNET '10), 3-4 dec. 2010, București.
- Vn16.** F. Constantinescu, **Al. G. Gheorghe**, A. Florea, M. Nitescu, „*The nonlinear artificial transmission line model for power BAW resonators*”, Simpozionul Național de Electrotehnică Teoretică (SNET '10), 3-4 dec. 2010, București.
- Vn17. Al. G. Gheorghe**, F. Constantinescu, M. Nitescu, „*Waveform interpolation for transient analysis*”, Simpozionul Național de Electrotehnică Teoretică (SNET '10), 3-4 dec. 2010, București.
- Vn18.** F. Constantinescu, **Al. G. Gheorghe**, M. Nițescu, „*Convergence problems in transient analysis of circuits containing MEMS*”, Simpozionul National de Electrotehnica Teoretica (SNET' 12), 14 dec. 2012.

V. BREVETE DE INVENȚIE / INOVAȚII (B,A)

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VI. CONTRACTE ȘI RAPOARTE ȘTIINȚIFICE (P,F)

P – Proiecte de cercetare-dezvoltare – inovare obtinute prin competitie, pe bază de contract/grant, in tara/strainatate (Pn– nationale, Pi-internationale).

Pi1. Coautor la „*Mixed SiP and SoC Integration of Power BAW Filters for Digital Wireless Transmissions (MOBILIS)*”, 2006-2009, Proiect FP6, F. Constantinescu (directorul de proiect al partii romane), Universitatea Politehnica din Bucuresti.

Pn1. Director de proiect la „*Metode noi de analiza a circuitelor neliniare de RF*”, 2007-2008, Proiect CNCSIS tip TD, 22000 RON.

Pn2. Director de proiect la „*Optimal design of electrical circuits using symbolic expressions of poles and zeros*”, 2012-2013, Proiect CNCSIS tip PD, 296560 RON.

Pn3. Coautor la „*Simularea eficienta a circuitelor integrate neliniare de RF –mixere si amplificatoare neliniare*”, 2005-2007, proiect CNCSIS, director de proiect: F. Constantinescu, Universitatea Politehnica din Bucuresti.

Pn4. Coautor la „*Sinteza unor modele comportamentale neliniare de circuit ale rezonatoarelor de putere cu unde acustice de volum pentru telefonie mobila*”, 2006-2008, proiect CNCSIS, director de proiect: M. Nitescu, Universitatea Politehnica din Bucuresti.

Pn5. Coautor la „*Modele neliniare de camp si de circuit pentru rezonatoarele BAW de putere*”, 2009-2011, proiect CNCSIS tip IDEI, director de proiect:F. Constantinescu, Universitatea Politehnica din Bucuresti.

Pn6. Coautor la „*Metode noi de analiza a circuitelor in domeniul timpului si in domeniul frecventei*”, 2009-2011, proiect CNCSIS tip IDEI, director de proiect:F. I. Hantila, Universitatea Politehnica din Bucuresti.

Pn7. Coautor la „*Metode noi de diagnosticare a defectelor in circuitele analogice*”, 2009-2011, proiect CNCSIS tip IDEI, director de proiect:M. C. Viorel, Universitatea Politehnica din Bucuresti.

F – Alte lucrări de cercetare – dezvoltare

F1. Referat de doctorat: „*Analiza in domeniul timpului si in domeniul frecventei a circuitelor neliniare de RF*”, Doctorand: ing. **Al. G. Gheorghe**, Indrumator: prof. dr. ing. F. Constantinescu.

F2. Referat de doctorat: „*Arhitectura circuitelor de RF*”, Doctorand: ing. **Al. G. Gheorghe**, Indrumator: prof. dr. ing. F. Constantinescu.

F3. Referat de doctorat: „*Metode eficiente de analiză a circuitelor neliniare de RF*”, Doctorand: ing. **Al. G. Gheorghe**, Indrumator: prof. dr. ing. F. Constantinescu.

F4. Raport de cercetare: F. Constantinescu, **Al.-G. Gheorghe**, M. Nitescu, „*Nonlinear circuit models of power BAW resonators*”, Mobilis Meeting, January 2007.

VII. COMUNICĂRI ȘTIINȚIFICE NEPUBLICATE (E)

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Data: 05.12.2014

șl. dr. ing. GHEORGHE Alexandru Gabriel

