

# LISTA DE LUCRĂRI

## *prof. Daniel IOAN*

### **A – teza de doctorat:**

**Daniel Ioan** *Regimul tranzitoriu al campului electromagnetic in medii neliniare - abordare sistematica si scheme echivalente.*

**Conducator: C.I. Mocanu**, Institutul Politehnic Bucuresti, 1978

### **B – Carti si capitole in carti**

#### **Carti**

1. G. Ciuprina, **D. Ioan** (Eds) *Scientific Computing in Electrical Engineering* , ECMI Series, Vol. 11, **Springer Verlag Berlin Heidelberg**, 2007, ISBN 978-3-540-71979-3
2. G. Ciuprina, **D. Ioan**, I. Munteanu, M. Rebican, R. Popa, *Optimizarea numerica a dispozitivelor electromagnetice* , (207 pagini), **Editura Printech**, 2002. ISBN 973-652-465-5
3. Irina Munteanu, **Daniel Ioan**. *Utilizarea Instrumentelor Unix în știință și inginerie* **MATRIX ROM, București**, România, 1999. (257 pag.), ISBN 973 685 004 8.
4. K. Nagaya, **D. Ioan** (Eds.). *Applied Electromagnetics and Mechanical Systems. vol 8* JSAEM, Proceedings of the Second Japan Romania Joint Seminar on Applied Electromagnetics and Mechanical Systems 16-18 November, 1998, Kiryu, **Japan Society of Applied electromagnetics and Mechanics, Tokyo**, ISBN 4-931455-07-7
5. **Daniel Ioan**, Irina Munteanu, Bogdan Ionescu, Mihai Popescu, Radu Popa, Mihai Lăzărescu, Gabriela Ciuprina. *Metode numerice în ingineria electrică.* **MATRIX ROM, București**, 1998. ISBN 973-9390-04-8.
6. **Daniel Ioan**, Irina Munteanu. *Metode Numerice: Aplicatii in ingineria electrica.* Universitatea "Politehnica" din Bucuresti, **Editura UPB, Bucuresti**, 1995. (330 pag.)
7. **D. Ioan** (Ed). *Proceedings of International Conference on Computer Aided Engineering Education - CAEE'93*, September 22-24, 1993, Bucharest, Vol.1,2 **Editura Clubului TEMPUS, Bucuresti**, 1993.

8. R. Radulet, Al. Timotin, S.E. Ghetaru, **D. Ioan**, si altii. *IEC Thesaurus Concepts in Electricity*, First English Edition. **International Electrotechnical Commission, CEI, Geneve, Suisse**, 1989.
9. **Daniel Ioan**. *Metode pentru calculul campului electromagnetic. Separarea variabilelor*, Institutul Politehnic Bucuresti, **Editura IPB, Bucutesti**, 1988.
10. R. Radulet, Al. Timotin, S.E. Ghetaru, **D. Ioan** si altii. *Thesaurus CEI rationnel de l'electricite*. **Commission Electrotechnique Internationale, CEI, Geneve, Suisse**, 1986.
11. **D. Ioan**. *Electrotehnica si electronica industrială*, vol. 3. **Editura I.P.B., Bucuresti**, 1985.
12. **D. Ioan**. *Electrotehnica si electronica industrială*, vol. 2. **Editura I.P.B., Bucuresti**, 1984.
13. **D. Ioan**. *Electrotehnica si electronica industrială*, vol. 1. **Editura I.P.B. Bucuresti**, 1983.

### **Capitole in carti**

1. N. Cristea, S. Antoniu, L. Constantinescu, F. Hantila, **D. Ioan**, altii. *Culegere de probleme de electrotehnica*. **Editura I.P.B.**, Bucuresti, 1979.
2. S. Antoniu, I. Dorobantu, **D. Ioan**, altii. *Bazele electrotehnicii - Indrumar de laborator* . **Editura I.P.B.**, Bucuresti, 1978
3. M. Preda, P. Cristea, F. Manea (coordonatori), **D. Ioan**, altii. *Bazele electrotehnicii - Probleme*. **Editura Didactica si Pedagogica**, Bucuresti, 1980.
4. F.M.G. Tomescu, R. Marculescu, **D. Ioan**, A. Tomescu. *Electrotehnica si Electronica Indrumar de laborator* . **Editura I.P.B.**, Bucuresti, 1983.
5. **D. Ioan**, Irina Munteanu, B. Ionescu, M. Popescu, R. Popa - *Computer aided learning of numerical methods for electrical engineers*, in 3rd World Conf. on Engineering Education pp. 15-20, Portsmouth, United Kingdom, sept. 20-25, 1992.in **T. V. Duggan** (ed.). *Industrial links, computers and designs*. **Computational Mechanics Publications, Southampton, Boston**, 1992. ISBN 1562521179, 9781562521172
6. **Daniel Ioan**, S. Popescu, S. Spanoche, C. Dan. *A Comparison between two CMOS Magnetic Sensor for ETC*. in *Nondestructive Testings of Materials*, pp. 125-134. R. Collins, W.D. Dover, J.R. Bowler and K. Miya (Ed), **IOS Press, Amsterdam**, 1995, ISBN 90 5199 239 4

7. Dogaru, R; Murgan, AT; **Ioan, D**; et al. *Chains of discrete-time chaotic neural networks for generation of broadband signals with applications in improved cipherring systems* Melecon '96 - 8th Mediterranean Electrotechnical Conference Proceedings, Vols I-III Pages: 635-637, **IEEE**, 1996 ISBN 0-7803-3109-5
  8. **D. Ioan**, I.F. Hăntilă, M. Rebican și C. Constantin. *FLUXSET sensor analysis based on nonlinear magnetic wire model of the core*. Electromagnetic Nondestructive Evaluation (II), vol. 14, pp. 160-169. R. Albanese, G. Rubinacci, T. Takagi and S.S. Udpa (Ed), **IOS Press, Amsterdam**, 1998. ISBN905199375 7.
  9. **D. Ioan**, M. Rebican, G. Ciuprina, P. Leonard. *3D FEM model of a FLUXSET sensor*. Electromagnetic Nondestructive Evaluation (II), vol. 14, pp. 152--159. R. Albanese, G. Rubinacci, T. Takagi and S.S. Udpa (Ed), **IOS Press, Amsterdam**, 1998. ISBN 90 5199 375 7.
  10. **D. Ioan**, M. Rebican, M. Iordache. *Approximate SPICE models of nonlinear magnetic circuits based on field solution*. Electromagnetic Nondestructive Evaluation (II), vol. 14, pp.120--128. R. Albanese, G. Rubinacci, T. Takagi and S.S. Udpa (Ed), **IOS Press, Amsterdam**,1998. ISBN 90 5199 375 7.
- Daniel Ioan**, Alessandro Formisano, Antal Gasparics, Irina Munteanu, Mihai Rebican. *High frequency models for the NDT magnetic field sensors*. Electromagnetic Nondestructive Evaluation, vol. III, pp. 14--25. **IOS Press Amsterdam**, D. Lesselier and A. Razek (Eds), 1999. ISBN: 90 5199 375 7
11. **Gabriela Ciuprina**, Daniel Ioan, *Distributed Evolutionary Strategies for Electromagnetic Devices Optimization*, Applied Electromagnetics and Mechanical Systems, pp.386-391, **Japan Society of Applied Electromagnetics and Mechanics, Tokyo**, 1999. ISBN, 4931455077
  12. **Daniel Ioan**, Anton Duca. *Use of MTANN Systems to Solve Inverse ENDE Problems*. Electromagnetic Nondestructive Evaluation (IV), vol. 17, pp. 159-166. S.S. Udpa and T. Takagi and J. Pavo and R. Albanese (Ed), **IOS Press**, Amsterdam, 2000. ISBN 90 5199 445 5.
  13. Pavo, J; **Ioan, D**; Novotny, P; et al. *Development of an innovative eddy current material evaluation technique* in Non-Linear Electromagnetic Systems, Di Barba, P., Savini, A. (ed) Pages: 249-252, **IOS Press Amsterdam**, 2000, ISBN: 978-1-58603-024-7
  14. Duca, A; **Ioan, D** *A Hybrid Transform-Neural Network approach for the inverse problem in NDET* in Non-Linear Electromagnetic Systems, Di Barba, P., Savini, A. (ed) Pages: 269-272, **IOS Press Amsterdam**, 2000, ISBN: 978-1-58603-024-7
  15. **Daniel Ioan**, Mihai Rebican, Anton Duca. *Use of Evolutionary Agents to Solve ENDE Inverse Problems*. Electromagnetic Nondestructive Evaluation (V), vol. 21, pp.

- 59-66. J. Pavo and G. Vertesy and T. Takagi and S.S. Udpa (Ed), **IOS Press, Amsterdam**, 2001. ISBN 58603 155 4.
16. **Daniel Ioan**, Irina Munteanu. *A Survey on Parameter Extraction Techniques for Coupling Electromagnetic Devices to Electric Circuits*. Scientific Computing in Electrical Engineering, vol. 18, pp. 337-357. Ursula van Rienen and Michael Gunther and Dirk Hecht (Ed.), **Springer Verlag, Berlin**, 2001. ISBN 10: 3540421734
  17. **Daniel Ioan**, Marius Radulescu, Gabriela Ciuprina, *Fast Extraction of Static Electric Parameters with Accuracy Control*, in Scientific Computing in Electrical Engineering (W.H.A.Schilders et al Eds), **Springer-Verlag, Heidelberg**, 2004, Germany, pp.248-256. ISBN-10: 3540213724
  18. **Ioan, D**; Ciuprina, G; Radulescu, M; et al. *Theorems of parameter variations applied for the extraction of compact models of on-chip passive structures*, ISSCS 2005: Signals, Circuits and Systems, Proceedings Pages: 147-150, **IEEE**, 2005 ISBN 0-7803-9029-6,
  19. **D. Ioan**, Gabriela Ciuprina, M. Radulescu and M. Piper *Algebraic Sparsefied Partial Equivalent Circuit (ASPEEC)* in Scientific Computing in Electrical Engineering, vol 2 (M. A. Anile et al Eds), pp 45-50, **Springer-Verlag, Heidelberg**, 2006. ISBN: 9783540328612
  20. G. Ciuprina, **D. Ioan** and D. Mihalache, *Reduced Order Electromagnetic Models based on dual Finite Integrals Technique*, Book chapter in the book Scientific Computing in Electrical Engineering, in the book series Mathematics in Industry (G. Ciuprina, D. Ioan Eds) , Vol. 11, pp. 287-294, **Springer-Verlag, Heidelberg**, 2007, ISBN 978-3-540-71979-3
  21. **D. Ioan**, G. Ciuprina "Reduced Order Electromagnetic Models of On-chip Passive Components and Interconnects, Workbench and Test Structures for Integrated passive components", Pages 447-467 in Reduced order modeling, (W.H.A. Schilders, H.A. van der Vorst, J. Rommes, Eds). "Model Order Reduction: Theory, Research Aspects and Applications", Springer series on Mathematics in Industry, **Springer-Verlag, Heidelberg**, 2008, ISBN 978-3-540-78840-
  22. Khaderi, S. N.; **Ioan, D.**; Den Toonder, J. M. J.; et al. *Nature-inspired microfluidic manipulation using magnetic actuators* in Microelectromechanical Systems - Materials and Devices Volume: 1052 Pages: 297-303 , **MRS - Materials Research Society (USA)**, 2008, ISBN-10: 1558999906
  23. Bi, Yu; van der Kolk, K.; **Ioan, D.**; et al. *Sensitivity Computation of Interconnect Capacitances with respect to Geometric Parameters*, 2008 Ieee-Epep Electrical Performance of Electronic Packaging, Pages: 193-196, **IEEE**, 2008, ISBN 1424428734

24. Niehof, J.; Janssen, H. H. J. M.; Schilders, W. H. A.; **Ioan, D.** et al. *Domain decomposition via electromagnetic hooks for the modeling of complete RF blocks* SPI08 Signal Propagation on Interconnects, Pages: 64-67 **IEEE**, 2008, DOI 10.1109/SPI.2008.4558330 , ISBN 978-1-4244-2317-0
  
25. Stefanescu, Alexandra; Ciuprina, Gabriela; **Ioan, Daniel;** et al., *Models for variability of transmission line structures* SPI08 Ieee Signal Propagation on Interconnects, Pages: 232-235 **IEEE**, 2008 DOI 10.1109/SPI.2008.4558330 ISBN 978-1-4244-2317-0
  
26. **Daniel Ioan** and Gabriela Ciuprina, *Reduced Order Models of On-Chip Passive Components and Interconnects Workbench and Test Structures*, in Model Order Reduction: Theory, Research Aspects and Applications, Wilhelmus H. A. Schilders, Henk A. van der Vorst and Joost Rommes Mathematics in Industry, Volume 13, III, 447-467, DOI: 10.1007/978-3-540-78841-6\_20, **Springer-Verlag, Heidelberg**, 2008, ISBN 978-3-540-78840-
  
29. Khaderi, S. N.; Baltussen, M. G. H. M.; Anderson, P. D.; **Ioan, D.**, et.al, *Artificial Cilia: Mimicking Nature Through Magnetic Actuation*, Materials and Strategies For Lab-on-a-Chip - Biological Analysis, Cell-Material Interfaces and Fluidic Assembly of Nanostructures Volume: 1191 Pages: 45-50, S. Khan, S. Murthy, V. Ugaz, H. Zeringue (editors) **MRS - Materials Research Society** (United States), 2009, ISBN-10: 1605111643
  
30. Villena, Jorge Fernandez; Ciuprina, Gabriela; **Ioan, Daniel;** et al. *On the Efficient Reduction of Complete EM based Parametric Models* in : **Date: 2009** Design, Automation & Test in Europe, Vols 1-3 Pages: 1172-1177, **IEEE, ACM, European Design and Automation Association**, 2009, ISBN 9781424437818
  
31. Gabriela Ciuprina, **Daniel Ioan**, Dragos Niculae, Jorge Fernández Villena and Luis Miguel Silveira *Parametric Models Based on Sensitivity Analysis for Passive Components Studies in Computational Intelligence*, 2008, Volume 119, Intelligent Computer Techniques in Applied Electromagnetics, Pages 231-239 Slawomir Wiak (Editor), Andrzej Krawczyk (Editor), Ivo Dolezel (Editor), **Springer-Verlag, Heidelberg**, 2009, ISBN-10: 3642097235
  
32. Gabriela Ciuprina, Alexandra Ștefănescu, **Daniel Ioan**, *Frequency dependent parametric models for transmission line structures*, Computer field models of electromagnetic devices (S. Wiak, E. Napieralska-Juszczak Eds), pp.618-625, **IOS Press**, 2010. ISBN 978-1-60750-603-4
  
33. Alexandra Stefanescu, **Daniel Ioan** and Gabriela Ciuprina, *Parametric Models of Transmission Lines Based on First Order Sensitivities* Mathematics in Industry, 1, Volume 14, Scientific Computing in Electrical Engineering SCEE 2008, Pages 29-36

Costa, Luis R.J.; Roos, Janne (Eds.), **Springer-Verlag, Heidelberg**, 2010, XXX, 588 p. ISBN 978-3-642-12293-4

36. Gabriela Ciuprina, **Daniel Ioan**, Diana Mihalache and Ehrenfried Seebacher *Domain Partitioning Based Parametric Models for Passive On-Chip Components* Mathematics in Industry, 1, Volume 14, Pages 37-44 in Scientific Computing in Electrical Engineering SCEE 2008 Costa, Luis R.J.; Roos, Janne (Eds.) **Springer-Verlag, Heidelberg**, 2010, ISBN 978-3-642-12293-4
37. Ioan-Alexandru Lazăr, Gabriela Ciuprina, **Daniel Ioan**, *Effective extraction of accurate reduced order models for HF-ICs using multi-CPU architectures*, Inverse Optimization and Inverse Problems, Electromagnetism - OIPE 2010, Proceedings, Ivan Yatchev, Iliana Marinova (Eds.), pages 5-8, **TU Sofia**, 2010 ISBN 978-954-438-855-3
38. Ionita, Valentin; **Ioan, Daniel** *Magnetic Torque Evaluation for Magnetized Nanoparticles* in Applied Electromagnetic Engineering For Magnetic, Superconducting and Nanomaterials A.G. Mamalis, M. Enokizono and A. Kladas (Eds.), Volume: 670 Pages: 103-109, **Trans Tech Publications - TTP**, 2011, ISBN: 978-0-87849-215-2
39. **Daniel Ioan**, Gabriela Ciuprina and Ioan-Alexandru Lazar, *Substrate Modeling Based on Hierarchical Sparse Circuits* Mathematics in Industry, 1, Volume 16, Scientific Computing in Electrical Engineering SCEE 2010, Part 2, Bastiaan Michielsen, Jean-René Poirier (Eds) Pages 143-152 **Springer-Verlag, Heidelberg**, 2012, ISBN-10: 3642224520

## **C – Lucrari indexate ISI/BDI**

### **Publicatii indexate ISI**

**Rezultatul interogarii ISI - Thomson-Reuter la 27 apr. 2012:**  
**Daniel Ioan: 34 Articole ISI + 23 Proceedings ISI = 57 in total**  
**24 lucrari cu prim autor, 209 citari**  
**<http://www.researcherid.com/rid/C-4338-2011>**

1. Title: *Effective extraction of accurate reduced order models for HF-ICs using multi-CPU architectures*

Author(s): Lazar, Ioan-Alexandru; Ciuprina, Gabriela; **Ioan, Daniel**

Source: 11th International Workshop on Optimization and Inverse Problems in Electromagnetism - **OIPE 2010**, 14-18 September 2010, Sofia, Bulgaria, Inverse Problems in Science and Engineering Volume: 20 Issue: 1 Pages: 15-27

Published: 2012 Taylor & Francis

DOI: 10.1080/17415977.2011.624622 ISSN 1741-5977

2. Title: *Vector Fitting Based Adaptive Frequency Sampling for Compact Model Extraction on HPC Systems*  
Author(s): Ciuprina, Gabriela; **Ioan, Daniel**; Lazar, Ioan Alexandru; et al.  
Source: **Ieee Transactions on Magnetics** Volume: 48 Issue: 2 Pages: 431-434  
Published: FEB 2012  
DOI: 10.1109/TMAG.2011.2174344 ISSN 0018-9464
3. Title: *Kinematics and flow characteristics of a magnetic actuated multi-cilia configuration*  
Author(s): Isvoranu, Dragos; **Ioan, Daniel**; Parvu, Petrisor  
Source: **Medical Engineering & Physics** Volume: 33 Issue: 7 Pages: 868-873  
Published: SEP 2011  
DOI: 10.1016/j.medengphy.2010.10.006 ISSN 0951-8320
4. Title: *Magnetic Torque Evaluation for Magnetized Nanoparticles*  
Author(s): Ionita, Valentin; **Ioan, Daniel**  
Source: 6th Japanese-Mediterranean Workshop on Applied Electromagnetic Engineering for Magnetic Superconducting and Nanomaterials (**JAPMED'6**), organized in Bucharest, Romania, during July 27-29th 2009. Applied Electromagnetic Engineering For Magnetic, Superconducting and Nanomaterials Volume: 670 Pages: 103-109 Published: 2011  
DOI: 10.4028/www.scientific.net/MSF.670.103 ISBN: 978-0-87849-215-2
5. Title: *NUMERICAL MODELLING OF A CILIUM USING AN INTEGRAL EQUATION*  
Author(s): Rebican, Mihai; **Ioan, Daniel**  
Source: **Revue Roumaine Des Sciences Techniques-Serie Electrotechnique Et Energetique** Volume: 56 Issue: 4 Pages: 359-366  
Published: OCT-DEC 2011  
ISSN 0035-406
6. Title: *Domain Partitioning Based Parametric Models for Passive On-Chip Components*  
Author(s): Ciuprina, Gabriela; **Ioan, Daniel**; Mihalache, Diana; et al.  
Source: Scientific Computing in Electrical Engineering **Scee 2008** Sept. 28 - Oct. 3, Helsinki University of Technology, Finland, Volume: 14 Pages: 37-44  
Published: 2010, Springer  
Times Cited: 1  
DOI: 10.1007/978-3-642-12294-1\_6 ISBN 978-3-642-12293-4
7. Title: *Parametric Models of Transmission Lines Based on First Order Sensitivities*  
Author(s): Stefanescu, Alexandra; **Ioan, Daniel**; Ciuprina, Gabriela; et al.  
Source: Scientific Computing in Electrical Engineering **Scee 2008** Sept. 28 - Oct. 3, Helsinki University of Technology, Finland Volume: 14 Pages: 29-36  
Published: 2010, Springer  
DOI: 10.1007/978-3-642-12294-1\_5 ISBN 978-3-642-12293-4
8. Title: *VARIABILITY MODELS FOR TRANSMISSION LINES*  
Author(s): Stefanescu, Alexandra Raluca; Ciuprina, Gabriela; **Ioan, Daniel**

Source: **Revue Roumaine Des Sciences Techniques-Serie Electrotechnique Et Energetique** Volume: 55 Issue: 4 Pages: 394-404  
Published: OCT-DEC 2010  
ISSN 0035-406

9. Title: *Artificial Cilia: Mimicking Nature Through Magnetic Actuation*  
Author(s): Khaderi, S. N.; Baltussen, M. G. H. M.; Anderson, P. D.; **Ioan, D.**, et.al  
Source: **MRS** Spring Meeting & Exhibit, April 13 - 17 San Francisco, CA, USA, Materials and Strategies For Lab-on-a-Chip - Biological Analysis, Cell-Material Interfaces and Fluidic Assembly of Nanostructures Volume: 1191 Pages: 45-50  
Published: 2009  
ISBN-10: 1605111643

10. Title: *Effective Domain Partitioning With Electric and Magnetic Hooks*  
Author(s): **Ioan, Daniel**; Ciuprina, Gabriela; Silveira, Luis Miguel  
Source: **Ieee Transactions on Magnetics** Volume: 45 Issue: 3 Pages: 1328-1331  
Published: MAR 2009  
Times Cited: 1  
DOI: 10.1109/TMAG.2009.2012616 ISSN 0018-9464

11. Title: *Nature-inspired microfluidic propulsion using magnetic actuation*  
Author(s): Khaderi, S. N.; Baltussen, M. G. H. M.; Anderson, P. D.; **Ioan, D.** et al.  
Source: **Physical Review E** Volume: 79 Issue: 4  
Published: APR 2009  
Times Cited: 19  
DOI: 10.1103/PhysRevE.79.046304 ISSN 1539-3755

12. Title: *On the Efficient Reduction of Complete EM based Parametric Models*  
Author(s): Villena, Jorge Fernandez; Ciuprina, Gabriela; **Ioan, Daniel**; et al.  
Source: **Date: 2009** Design, Automation & Test in Europe Conference & Exhibition, 20-24 apr 2009, Nice France, Vols 1-3 Pages: 1172-1177  
Published: 2009  
ISBN 978-3-9810801-5-5

13. Title: *THE ELECTROMAGNETIC CIRCUIT ELEMENT - THE KEY OF MODELLING ELECTROMAGNETICALLY COUPLED INTEGRATED COMPONENTS*  
Author(s): Ciuprina, Gabriela; **Ioan, Daniel**; Mihalache, Diana; et al.  
Source: **Revue Roumaine Des Sciences Techniques-Serie Electrotechnique Et Energetique** Volume: 54 Issue: 1 Pages: 37-46  
Published: JAN-MAR 2009  
ISSN 0035-406

14. Title: *Domain decomposition via electromagnetic hooks for the modeling of complete RF blocks*  
Author(s): Niehof, J.; Janssen, H. H. J. M.; Schilders, W. H. A.; **Ioan, D.** et al.  
Source: **SPI08** Ieee Workshop on Signal Propagation on Interconnects 12-15 May 2008, Avignon, France, Pages: 64-67  
Published: 2008  
DOI 10.1109/SPI.2008.4558330 , ISBN 978-1-4244-2317-0



15. Title: *Models for integrated components coupled with their EM environment*  
Author(s): **Ioan, Daniel**; Schilders, Wil; Ciuprina, Gabriela; et al.  
Source: **Compel** -the International Journal For Computation and Mathematics in Electrical and Electronic Engineering Volume: 27 Issue: 4 Pages: 820-829  
Published: 2008  
Times Cited: 7  
DOI: 10.1108/03321640810878225 ISSN : 0332-1649.
16. Title: Models for variability of transmission line structures  
Author(s): Stefanescu, Alexandra; Ciuprina, Gabriela; Ioan, Daniel; et al.  
Source: SPI08 Ieee Workshop on Signal Propagation on Interconnects 12-15 May 2008, Avignon, France, Pages: 232-235  
Published: 2008  
DOI 10.1109/SPI.2008.4558330 ISBN 978-1-4244-2317-0
17. Title: *Nature-inspired microfluidic manipulation using magnetic actuators*  
Author(s): Khaderi, S. N.; **Ioan, D.**; Den Toonder, J. M. J.; et al.  
Source: **MRS** Fall Meeting, Dec. 1-5, Boston, MA, USA, Microelectromechanical Systems - Materials and Devices Volume: 1052 Pages: 297-303  
Published: 2008 ISBN-10: 1558999906
18. Title: *Parametric Models Based on Sensitivity Analysis for Passive Components*  
Author(s): Ciuprina, Gabriela; **Ioan, Daniel**; Niculae, Dragos; et al.  
Source: Symposium on Electromagnetic Fields in Mechatronics, Electrical and Electronic Engineering **ISEF'07** which was held in Prague, Czech Republic, September 13-15, 2007, Intelligent Computer Techniques in Applied Electromagnetics, Volume: 119 Pages: 231-239  
Published: 2008, Springer  
ISBN 978-3-540-78489-0  
Times Cited: 3
19. Title: *Parametric models based on the adjoint field technique for RF passive integrated components*  
Author(s): **Ioan, Daniel**; Ciuprina, Gabriela; Schilders, W. H. A.  
Source: **Ieee Transactions on Magnetics** Volume: 44 Issue: 6 Pages: 1658-1661  
Published: JUN 2008  
Times Cited: 5  
DOI: 10.1109/TMAG.2007.916368 ISSN 0018-9464
20. Title: *Sensitivity Computation of Interconnect Capacitances with respect to Geometric Parameters*  
Author(s): Bi, Yu; van der Kolk, K.; **Ioan, D.**; et al.  
Source: **2008 Ieee-Epep** Electrical Performance of Electronic Packaging 27-29 Oct. San Jose, California 2008, USA, Pages: 193-196  
Published: 2008  
ISBN 1424428734

21. Title: *Reduced order electromagnetic models for on-chip passives based on dual finite integrals technique*  
Author(s): Ciuprina, Gabriela; **Ioan, Daniel**; Milialache, Diana; et al.  
Source: **SCEE06**, Scientific Computing in Electrical Engineering 17-22 sep. 2006, Sinaia, Romania, Volume: 11 Pages: 287-+  
Published: 2007 Springer  
ISBN 978-3-540-71979-3
22. Title: *Absorbing boundary conditions for compact modeling of on-chip passive structures*  
Author(s): **Ioan, Daniel**; Ciuprina, Gabriela; Radulescu, Marius  
Source: **Compel** - the International Journal For Computation and Mathematics in Electrical and Electronic Engineering Volume: 25 Issue: 3 Pages: 652-659  
Published: 2006  
Times Cited: 3  
DOI: 10.1108/03321640610666817 ISSN : 0332-1649.
23. Title: *Algebraic sparsefied partial equivalent electric circuit (ASPEEC)*  
Author(s): **Ioan, D.**; Ciuprina, G.; Radulescu, M.; et al.  
Source: **SCEE04** - Scientific Computing in Electrical Engineering Capo D'Orlando 5-9 September 2004, Volume: 9 Pages: 45-+  
Published: 2006 Springer  
Times Cited: 3  
ISBN: 9783540328612
24. Title: *Compact modeling and fast simulation of on-chip interconnect lines*  
Author(s): **Ioan, D**; Ciuprina, G; Radulescu, M; et al.  
Source: **Ieee Transactions on Magnetics** Volume: 42 Issue: 4 Pages: 547-550  
Published: APR 2006  
Times Cited: 13  
DOI: 10.1109/TMAG.2006.871466 ISSN 0018-9464
25. Title: *Theorems of parameter variations applied for the extraction of compact models of on-chip passive structures*  
Author(s): **Ioan, D**; Ciuprina, G; Radulescu, M; et al.  
Source: **ISSCS 2005**: International Symposium on Signals, Circuits and Systems, July 14-15, 2005, Iasi Romania, Vols 1 and 2, Proceedings Pages: 147-150  
Published: 2005  
ISBN 0-7803-9029-6,
26. Title: *Eigenvalue computation by means of a tree-cotree filtering technique*  
Author(s): Trapp, B; Munteanu, I; Schuhmann, R; **Ioan, D.** et al.  
Source: **Ieee Transactions on Magnetics** Volume: 38 Issue: 2 Pages: 445-448  
Published: MAR 2002  
Times Cited: 1  
DOI: 10.1109/20.996118 ISSN 0018-9464
27. Title: *Numerical model for eddy-current testing of ferromagnetic steel parts*  
Author(s): **Ioan, D**; Rebican, M

Source: **Ieee Transactions on Magnetics** Volume: 38 Issue: 2 Pages: 629-632  
Published: MAR 2002  
Times Cited: 2  
DOI: 10.1109/20.996164 ISSN 0018-9464

28. Title: *Reducing the complexity order of the algorithms for magnetic field nonlinear problems*

Author(s): Munteanu, I; Ciobotaru, C; **Ioan, D**  
Source: **Compel** -the International Journal For Computation and Mathematics in Electrical and Electronic Engineering Volume: 21 Issue: 2 Pages: 286-295  
Published: 2002  
DOI: 10.1108/03321640210416377 ISSN : 0332-1649.

29. Title: *Use of intelligent-particle swarm optimization in electromagnetics*

Author(s): Ciuprina, G; **Ioan, D**; Munteanu, I  
Source: Ieee Transactions on Magnetics Volume: 38 Issue: 2 Pages: 1037-1040  
Published: MAR 2002  
Times Cited: 94  
DOI: 10.1109/20.996266 ISSN 0018-9464

30. Title: *A survey on parameter extraction techniques for coupling electromagnetic devices to electric circuits*

Author(s): Munteanu, I; **Ioan, D**; VanRienen, U; et al.  
Source: **SCEE2000**, Scientific Computing in Electrical Engineering, August 20-23, 2000, Warnemünde, Germany, Proceedings Volume: 18 Pages: 337-357  
Published: 2001 Springer  
ISBN 10: 3540421734

31. Title: *Extraction of B-H relation based on the inverse magnetostatic problem*

Author(s): **Ioan, D**; Rebican, M  
Source: **International Journal of Applied Electromagnetics and Mechanics** Volume: 13 Issue: 1-4 Pages: 329-334  
Published: 2001  
ISSN: 1383-5416  
Times Cited: 1

32. Title: *Magnetically induced currents in a three-dimensional human body model*

Author(s): Golovanov, C; Urma, D; Albu, M; **Ioan, D**. et al.  
Source: **International Journal of Applied Electromagnetics and Mechanics** Volume: 14 Issue: 1-4 Pages: 365-368  
Published: 2001  
ISSN: 1383-5416

33. Title: *Triangle search method for nonlinear electromagnetic field computation*

Author(s): Munteanu, I; Drobny, S; Weiland, T; **Ioan, D**. et al.  
Source: **Compel** - the International Journal For Computation and Mathematics in Electrical and Electronic Engineering Volume: 20 Issue: 2 Pages: 417-430  
Published: 2001  
Times Cited: 4

DOI: 10.1108/03321640110383302 ISSN : 0332-1649.

34. Title: *Use of evolutionary agents to solve ENDE inverse problems*

Author(s): **Ioan, D**; Rebican, M; Duca, A; et al.

Source: **E'NDE 2000** - Electromagnetic Nondestructive Evaluation (V) June 2000, Budapest, Hungary, Volume: 21 Pages: 59-66

Published: 2001, IOS Press

ISBN 1-58603-155-4

35. Title: *A Hybrid Transform-Neural Network approach for the inverse problem in NDET*

Author(s): Duca, A; **Ioan, D**

Source: Non-Linear Electromagnetic Systems - **Isem '99**, Pavia, Italy from 10 to 12 May 1999, Pages: 269-272

Published: 2000 IOS Press

ISBN: 978-1-58603-024-7

36. Title: *Development of an innovative eddy current material evaluation technique*

Author(s): Pavo, J; **Ioan, D**; Novotny, P; et al.

Source: Non-Linear Electromagnetic Systems - **Isem '99, Pavia**, Italy from 10 to 12 May 1999 Pages: 249-252

Published: 2000 IOS Press

ISBN: 978-1-58603-024-7

37. Title: *FIT/PVL circuit-parameter extraction for general electromagnetic devices*

Author(s): Munteanu, I; Wittig, T; Weiland, T; **Ioan, D.** et al.

Source: **Ieee Transactions on Magnetics** Volume: 36 Issue: 4 Pages: 1421-1425

Published: JUL 2000

Times Cited: 6

ISSN 0018-9464

38. Title: *Hybrid and concurrent algorithms for nonlinear magnetic field problems*

Author(s): **Ioan, D**; Ciuprina, G; Ciobotaru, C

Source: **Ieee Transactions on Magnetics** Volume: 36 Issue: 4 Pages: 1553-1556

Published: JUL 2000

Times Cited: 1

ISSN 0018-9464

39. Title: *Identification of the B-H curve from external measurements using complementary formulations*

Author(s): Albanese, R; Bossavit, A; Fresa, R; **Ioan, D.** et al.

Source: **Physica B** Volume: 275 Issue: 1-3 Pages: 228-232

Published: JAN 2000

Times Cited: 2

DOI: 10.1016/S0921-4526(99)00763-2 ISSN 0921-4526

40. Title: *Models for capacitive effects in iron core transformers*

Author(s): **Ioan, D**; Munteanu, I

Source: **Ieee Transactions on Magnetics** Volume: 36 Issue: 4 Pages: 990-994  
Published: JUL 2000  
Times Cited: 2  
DOI: 10.1109/20.877608 ISSN 0018-9464

41. Title: *Use of MTANN systems to solve inverse ENDE problems*  
Author(s): **Ioan, D**; Duca, A;  
Source: Electromagnetic Nondestructive Evaluation (Iv), **E'NDE'99**, Iowa State University, Des Moines, USA, Volume: 17 Pages: 159-166  
Published: 2000, IOS Press  
ISBN 90 5199 445 5

42. Title: *B-H characteristic extraction using devices with non-uniform field*  
Author(s): **Ioan, D**; Rebican, M; Gasparics, A  
Source: **Compel** - the International Journal For Computation and Mathematics in Electrical and Electronic Engineering Volume: 18 Issue: 3 Pages: 469-481  
Published: 1999  
Times Cited: 3  
DOI: 10.1108/03321649910275116 ISSN : 0332-1649.

43. Title: *Capacitive effect models for a magnetic field sensor*  
Author(s): **Ioan, D**; Munteanu, I; Popeea, C  
Source: **Compel** - the International Journal For Computation and Mathematics in Electrical and Electronic Engineering Volume: 18 Issue: 3 Pages: 515-527  
Published: 1999  
Times Cited: 1  
DOI: 10.1108/03321649910275206 ISSN : 0332-1649.

44. Title: *Embedded stochastic-deterministic optimization method with accuracy control*  
Author(s): **Ioan, D**; Ciuprina, G; Szigeti, A  
Source: **Ieee Transactions on Magnetics** Volume: 35 Issue: 3 Pages: 1702-1705  
Published: MAY 1999  
DOI: 10.1109/20.767353 ISSN 0018-9464

45. Title: *High frequency models for the NDT magnetic field sensors*  
Author(s): **Ioan, D**; Formisano, A; Gasparics, A; et al.  
Source: Electromagnetic Nondestructive Evaluation (Iii) **E'NDE'98** The 4th International Workshop on Electromagnetic Non-Destructive Evaluation Chatou, France  
September 17-18, 1998 Volume: 15 Pages: 14-25  
Published: 1999 , IOS Press,  
ISBN: 90 5199 375 7

46. Title: *Parameter extraction for microwave devices based on 4SID techniques*  
Author(s): Munteanu, I; **Ioan, D**  
Source: **Ieee Transactions on Magnetics** Volume: 35 Issue: 3 Pages: 1781-1784  
Published: MAY 1999  
Times Cited: 2  
DOI: 10.1109/20.767376 ISSN 0018-9464

47. Title: *3D FEM model of a FLUXSET sensor*  
Author(s): **Ioan, D**; Rebican, M; Ciuprina, G; et al.  
Source: Electromagnetic Nondestructive Evaluation (Ii) **E'NDE '97**. Reggio. Calabria, Italy, sept. 14-16 1997. Volume: 14 Pages: 152-159  
Published: 1998, IOS Press  
Times Cited: 1  
ISBN: 90 5199 375 7
48. Title: *Adjoint field technique applied in optimal design of a nonlinear inductor*  
Author(s): **Ioan, D**; Munteanu, I; Ciuprina, G  
Source: **Ieee Transactions on Magnetics** Volume: 34 Issue: 5 Pages: 2849-2852  
Published: SEP 1998  
Times Cited: 9  
DOI: 10.1109/20.717663 ISSN 0018-9464
49. Title: *An object oriented data structure for field analysis*  
Author(s): Popescu, M; Munteanu, I; Constantin, CG; **Ioan, D**. et al.  
Source: **Ieee Transactions on Magnetics** Volume: 34 Issue: 5 Pages: 3403-3406  
Published: SEP 1998  
Times Cited: 2  
DOI: 10.1109/20.717801 ISSN 0018-9464
50. Title: *Approximate SPICE models of nonlinear magnetic circuits based on field solution*  
Author(s): **Ioan, D**; Rebican, M; Iordache, M; et al.  
Source: Electromagnetic Nondestructive Evaluation (Ii) **E'NDE '97**. Reggio. Calabria, Italy, sept. 14-16 1997, Volume: 14 Pages: 120-128  
Published: 1998, IOS Press  
ISBN: 90 5199 375 7
51. Title: *FLUXSET sensor analysis based on nonlinear magnetic wire model of the core*  
Author(s): **Ioan, D**; Hantila, IF; Rebican, M; et al.  
Source: Electromagnetic Nondestructive Evaluation (Ii) **E'NDE '97**. Reggio. Calabria, Italy, sept. 14-16 1997. Volume: 14 Pages: 160-169  
Published: 1998, IOS Press  
Times Cited: 1  
ISBN: 90 5199 375 7
52. Title: *Some properties of the non-homogeneous anisotropic Perfectly Matched Layer*  
Author(s): Munteanu, I; **Ioan, D**  
Source: **Ieee Transactions on Magnetics** Volume: 34 Issue: 5 Pages: 2692-2695  
Published: SEP 1998  
DOI: 10.1109/20.717624 ISSN 0018-9464
53. Title: *The best approximation of the field effects in electric circuit coupled problems*  
Author(s): **Ioan, D**; Munteanu, I; Constantin, CG  
Source: **Ieee Transactions on Magnetics** Volume: 34 Issue: 5 Pages: 3210-3213  
Published: SEP 1998  
Times Cited: 9

DOI: 10.1109/20.717753 ISSN 0018-9464

54. Title: *Use of stochastic algorithms for distributed architectures in the optimization of electromagnetic devices*

Author(s): **Ioan, D**; Ciuprina, G; Dumitrescu, C

Source: **Ieee Transactions on Magnetics** Volume: 34 Issue: 5 Pages: 3000-3003

Published: SEP 1998

Times Cited: 4

DOI: 10.1109/20.717701 ISSN 0018-9464

55. Title: *Chains of discrete-time chaotic neural networks for generation of broadband signals with applications in improved ciphering systems*

Author(s): Dogaru, R; Murgan, AT; **Ioan, D**; et al.

Source: **Melecon '96** - 8th Mediterranean Electrotechnical Conference, May 13-16, 1996, Bari, Italy, Proceedings, Vols I-Iii Pages: 635-637

Published: 1996

ISBN 0-7803-3109-5

56. Title: *Quasi-stationary magnetic field computation in hysteretic media*

Author(s): Ionita, V; Cranganu-Cretu, B; **Ioan, D**

Source: **Ieee Transactions on Magnetics** Volume: 32 Issue: 3 Pages: 1128-1131

Published: MAY 1996

Times Cited: 9

DOI: 10.1109/20.497441 ISSN 0018-9464

57. Title: *A comparison between two CMOS magnetic sensors for ECT*

Author(s): **Ioan, D**; Popescu, S; Spanoche, S; et al.

Source: Nondestructive Testing of Materials, **E'NDE'95** 21-22 September 1995, University College London, UK Volume: 8 Pages: 125-134

Published: 1995, IOS Press ISBN: 90 5199 239 4

**Publicatii BDI** Database=INSPEC; Timespan=1969-2002 = 46 + 25 (2003-2012)=71

1. Golovanov, C.; Urma, D.; Albu, M.; Ioan, D. Magnetically induced currents in a three-dimensional human body model Tenth International Symposium on Applied Electromagnetics and Mechanics. ISEM-Tokyo, 13-16 May 2001, Tokyo, Japan International Journal of Applied Electromagnetics and Mechanics vol.14, no.1-4 : 365-8, 2001-2002

2. Ioan, D.; Rebican, M. Extraction of B-H relation based on the inverse magnetostatic problem Tenth International Symposium on Applied Electromagnetics and Mechanics. ISEM-Tokyo, 13-16 May 2001, Tokyo, Japan International Journal of Applied Electromagnetics and Mechanics vol.13, no.1-4 : 329-34, 2001-2002

3. Duca, A.; Ioan, D. A hybrid transform-neural network approach for the inverse problem in NDET ISEM'99: Non-Linear Electromagnetic Systems, 10-12 May 1999, Pavia, Italy Non-Linear Electromagnetic Systems. ISEM '99 : 269-72, 2000
4. Pavo, J.; Ioan, D.; Novotny, P.; et al. Development of an innovative eddy current material evaluation technique ISEM'99: Non-Linear Electromagnetic Systems, 10-12 May 1999, Pavia, Italy Non-Linear Electromagnetic Systems. ISEM '99 : 249-52, 2000
5. Ciuprina, F.; Ciuprina, G.; Ioan, D. Error estimation in the numerical analysis of a nonlinear inductor Proceedings of International Aegean Conference on Electrical Machines and Power Electronics - ACEMP 2001, 27-29 June 2001, Kusadasi, Turkey Proceedings International Aegean Conference on Electrical Machines and Power Electronics : 613-16, 2001
6. Munteanu, I.; Ioan, D.; Ciobotaru, C. Numerical analysis of a die press model for ferrite micromachine pole using software agents Proceedings of International Aegean Conference on Electrical Machines and Power Electronics - ACEMP 2001, 27-29 June 2001, Kusadasi, Turkey Proceedings International Aegean Conference on Electrical Machines and Power Electronics : 607-12, 2001
7. Rebican, M.; Ioan, D. Extraction of B-H hysteresis loop from measurements with non-uniform magnetic field Proceedings of International Aegean Conference on Electrical Machines and Power Electronics - ACEMP 2001, 27-29 June 2001, Kusadasi, Turkey Proceedings International Aegean Conference on Electrical Machines and Power Electronics : 283-7, 2001
8. Munteanu, I.; Ciobotaru, C.; Ioan, D. Reducing the complexity order of the algorithms for magnetic field nonlinear problems COMPEL - The International Journal for Computation and Mathematics in Electrical and Electronic Engineering vol.21, no.2 : 286-95, 2002
9. Ciuprina, G.; Ioan, D.; Munteanu, I. Use of intelligent-particle swarm optimization in electromagnetics 13th Annual Conference on the Computation of Electromagnetic Fields (COMPUMAG '01), 2-5 July 2001, Evian, France IEEE Transactions on Magnetics vol.38, no.2, pt.1 : 1037-40, March 2002
9. Ciuprina, G.; Ioan, D.; Munteanu, I. Use of intelligent-particle swarm optimization in electromagnetics 13th Annual Conference on the Computation of Electromagnetic Fields (COMPUMAG '01), 2-5 July 2001, Evian, France IEEE Transactions on Magnetics vol.38, no.2, pt.1 : 1037-40, March 2002
10. Ioan, D.; Rebican, M. Numerical model for eddy-current testing of ferromagnetic steel parts 13th Annual Conference on the Computation of Electromagnetic Fields (COMPUMAG '01), 2-5 July 2001, Evian, France IEEE Transactions on Magnetics vol.38, no.2, pt.1 : 629-32, March 2002
11. Trapp, B.; Munteanu, H.; Schuhmann, R.; Ioan, D. Eigenvalue computation by means of a tree-cotree filtering technique 13th Annual Conference on the



Computation of Electromagnetic Fields (COMPUMAG '01), 2-5 July 2001, Evian, France IEEE Transactions on Magnetics vol.38, no.2, pt.1 : 445-8, March 2002

12. Munteanu, I.; Ioan, D. Symbolic computation with Maple V for undergraduate electromagnetics IEEE Transactions on Education vol.44, no.2 : 3 pp., May 2001

13. Munteanu, I.; Drobny, S.; Weiland, T.; et al. Triangle search method for nonlinear electromagnetic field computation 9th International IGTE Symposium on Numerical Field Computation, Sept. 2000, Graz, Austria COMPEL - The International Journal for Computation and Mathematics in Electrical and Electronic Engineering vol.20, no.2 : 417-30, 2001

14. Munteanu, I.; Ciobotaru, C.; Ioan, D. Reducing the complexity order of the algorithms for magnetic field nonlinear problems 16th Symposium Electromagnetic Phenomena in Nonlinear Circuits, 18-20 Sept. 2000, Krakow, Poland 16th Symposium Electromagnetic Phenomena in Nonlinear Circuits. Proceedings EPNC 2000 : 65-8, 2000

15. Ioan, D.; Giuprina, G.; Ciobotaru, C. Hybrid and concurrent algorithms for nonlinear magnetic field problems 12th Conference of the Computation of Electromagnetic Fields (COMPUMAG '99), 25-28 Oct. 1999, Sapporo, Japan IEEE Transactions on Magnetics vol.36, no.4, pt.1 : 1553-6, July 2000

16. Munteanu, I.; Wittig, T.; Weiland, T.; et al. FIT/PVL circuit-parameter extraction for general electromagnetic devices 12th Conference of the Computation of Electromagnetic Fields (COMPUMAG '99), 25-28 Oct. 1999, Sapporo, Japan IEEE Transactions on Magnetics vol.36, no.4, pt.1 : 1421-5, July 2000

17. Ioan, D.; Munteanu, I. Models for capacitive effects in iron core transformers 12th Conference of the Computation of Electromagnetic Fields (COMPUMAG '99), 25-28 Oct. 1999, Sapporo, Japan IEEE Transactions on Magnetics vol.36, no.4, pt.1 : 990-4, July 2000

18. Vasiliu, B.; Ioan, D.; Munteanu, I. Distributed-architecture simulated annealing for optimization of electromagnetic devices Revue Roumaine des Sciences Techniques, Serie Electrotechnique et Energetique vol.43, no.3 : 409-16, July-Sept. 1998

19. Atanasiu, G.; Brad, P.; Ioan, D.; et al. Air gap magnetic permeance estimation for a switched reluctance motor Revue Roumaine des Sciences Techniques, Serie Electrotechnique et Energetique vol.43, no.3 : 385-90, July-Sept. 1998

20. Albanese, R.; Bossavit, A.; Fresa, R.; et al. Identification of the B-H curve from external measurements using complementary formulations Second International Symposium on Hysteresis Modeling and Micromagnets. HMM'99, 7-9 June 1999, Perugia, Italy Physica B vol.275, no.1-3 : 228-32, Jan. 2000

21. Ioan, D.; Munteanu, I.; Popeea, C. Capacitive effect models for a magnetic field sensor [for eddy current testing] 8th International IGTE Symposium on Numerical

Field Calculation in Electrical Engineering, Sept. 1998, Graz, Austria COMPEL - The International Journal for Computation and Mathematics in Electrical and Electronic Engineering vol.18, no.3 : 515-27, 1999

22. Ioan, D.; Rebican, M.; Gasparics, A. B-H characteristic extraction using devices with non-uniform field 8th International IGTE Symposium on Numerical Field Calculation in Electrical Engineering, Sept. 1998, Graz, Austria COMPEL - The International Journal for Computation and Mathematics in Electrical and Electronic Engineering vol.18, no.3 : 469-81, 1999

23. Munteanu, I.; Ioan, D. Parameter extraction for microwave devices based on 4SID techniques Proceedings of the Eighth Biennial IEEE Conference on Electromagnetic Field Computation, 1-3 June 1998, Tucson, AZ, USA IEEE Transactions on Magnetics vol.35, no.3, pt.1 : 1781-4, May 1999

24. Ioan, D.; Ciuprina, G.; Szigeti, A. Embedded stochastic-deterministic optimization method with accuracy control Proceedings of the Eighth Biennial IEEE Conference on Electromagnetic Field Computation, 1-3 June 1998, Tucson, AZ, USA IEEE Transactions on Magnetics vol.35, no.3, pt.1 : 1702-5, May 1999

25. Ioan, D.; Ciureanu, S.A.; Gearba, A. The influence of the amorphous alloy magnetic properties on the air-gap dispersion field of the inductive magnetic heads Electrotehnica, Electronica si Automatica vol.46, no.7-8 : 30-3, July-Aug. 1998

26. Popescu, M.; Munteanu, I.; Constantin, C.-G.; Ioan, D.. An object oriented data structure for field analysis 11th International Conference on Computation of Electromagnetic Fields (COMPUMAG), 3-6 Nov. 1997, Rio de Janeiro, Brazil IEEE Transactions on Magnetics vol.34, no.5, pt.1 : 3403-6, Sept. 1998

27. Ioan, D.; Munteanu, I.; Constantin, C.-G. The best approximation of the field effects in electric circuit coupled problems 11th International Conference on Computation of Electromagnetic Fields (COMPUMAG), 3-6 Nov. 1997, Rio de Janeiro, Brazil IEEE Transactions on Magnetics vol.34, no.5, pt.1 : 3210-13, Sept. 1998

28. Ioan, D.; Ciuprina, G.; Dumitrescu, C. Use of stochastic algorithms for distributed architectures in the optimization of electromagnetic devices 11th International Conference on Computation of Electromagnetic Fields (COMPUMAG), 3-6 Nov. 1997, Rio de Janeiro, Brazil IEEE Transactions on Magnetics vol.34, no.5, pt.1 : 3000-3, Sept. 1998

29. Ioan, D.; Munteanu, I.; Ciuprina, G. Adjoint field technique applied in optimal design of a nonlinear inductor 11th International Conference on Computation of Electromagnetic Fields (COMPUMAG), 3-6 Nov. 1997, Rio de Janeiro, Brazil IEEE Transactions on Magnetics vol.34, no.5, pt.1 : 2849-52, Sept. 1998

30. Munteanu, I.; Ioan, D. Some properties of the non-homogeneous anisotropic perfectly matched layer 11th International Conference on Computation of

Electromagnetic Fields (COMPUMAG), 3-6 Nov. 1997, Rio de Janeiro, Brazil IEEE Transactions on Magnetics vol.34, no.5, pt.1 : 2692-5, Sept. 1998

31. Dogaru, R.; Murgan, A.T.; Ioan, D. Chains of discrete-time chaotic neural networks for generation of broadband signals with applications in improved ciphering systems Proceedings of 8th Mediterranean Electrotechnical Conference on Industrial Applications in Power Systems, Computer Science and Telecommunications (MELECON 96), 13-16 May 1996, Bari, Italy MELECON '96. 8th Mediterranean Electrotechnical Conference. Industrial Applications in Power Systems, Computer Science and Telecommunications. Proceedings (Cat. No.96CH35884) : (vol.2) 635-7, 1996

32. Ioan, D.; Sfetcu, M.B. New models of magnetic circuit elements for coupled problems Proceedings of Seventh Conference on Electromagnetic Field Computation - CEFEC, 18-20 March 1996, Okayama, Japan IEEE CEFC '96. The Seventh Biennial IEEE Conference on Electromagnetic Field Computation : 445, 1996

33. Hantila, F.; Gheorma, I.; Demeter, E.; Ioan, D. Electromagnetic circuit element: 3D FEM analysis Proceedings of Seventh Conference on Electromagnetic Field Computation - CEFEC, 18-20 March 1996, Okayama, Japan IEEE CEFC '96. The Seventh Biennial IEEE Conference on Electromagnetic Field Computation : 373, 1996

34. Ioan, D.; Hantila, F.; Gheorma, I. A study on the combined use of edge and nodal elements Proceedings of Seventh Conference on Electromagnetic Field Computation - CEFEC, 18-20 March 1996, Okayama, Japan IEEE CEFC '96. The Seventh Biennial IEEE Conference on Electromagnetic Field Computation : 177, 1996

35. Hantila, F.; Ioan, D. Voltage-current relation of circuit elements with field effects Revue Roumaine des Sciences Techniques, Serie Electrotechnique et Energetique vol.39, no.3 : 405-16, July-Sept. 1994

36. Hantila, F.I.; Ioan, D.C.; Peios, N.N.; Tegopoulos, J. Integral method for computation of eddy-current time constant Revue Roumaine des Sciences Techniques, Serie Electrotechnique et Energetique vol.39, no.1 :15-23, Jan.-March 1994

37. Dogaru, R.; Murgan, A.T.; Ioan, D. Robust oscillations and bifurcations in cellular neural networks Proceedings of the Third IEEE International Workshop on Cellular Neural Networks and their Applications (CNNA-94), 18-21 Dec. 1994, Rome, Italy Proceedings of the Third IEEE International Workshop on Cellular Neural Networks and their Applications (CNNA-94) (Cat. No.94TH0693-2) : 303-8, 1994

38. Hantila, F.I.; Ioan, D.C. Integral method for finding the time constants in electromagnetic time diffusion Revue Roumaine des Sciences Techniques, Serie Electrotechnique et Energetique vol.38, no.1 : 71-80, Jan.-March 1993

39. Morega, M.; Ioan, D. A Romanian experience in computer-aided electromagnetic education Applied Computational Electromagnetics Society Journal vol.8, no.1 : 125-37, 1993

40. Beiu, V.; Ioan, D.C.; Dumbrava, M.C. Continuous Boltzmann machines: theoretical aspects and applications 4-8 May 1992, The Hague, Netherlands CompEuro 1992 Proceedings. Computer Systems and Software Engineering (Cat. No.91CH3121-1) : 193-8, 1992

41. Ioan, D.C.; Munteanu, I. Numerical methods in the electrical engineer's education International Conference on Computer Aided Engineering. CAEE '91, 3-6 Sept. 1991, Prague, Czechoslovakia European Journal of Engineering Education vol.17, no.2 : 151-7, 1992

42. Beiu, V.; Ioan, D.C.; Dumbrava, M.C.; et al. Physical fields determination using continuous Boltzmann machines 10-12 Feb. 1992, Innsbruck, Austria Proceedings of the Tenth IASTED International Conference. Applied Informatics : 284-7, 1992

43. Ioan, D.C.; Munteanu, I. Numerical methods in the electrical engineers education 3-6 Sept. 1991, Prague, Czechoslovakia International Conference on Computer Aided Engineering Education. CAEE '91. Proceedings of the Czech Technical University of Prague : 88-96, 1991

44. Ioan, D.C. Equivalent circuits of solid iron core for transient problems 4-6 Sept. 1978, Grenoble, France Compumag Communications Proceedings : 10.5/1-7, 1978

45. Ioan, C.D.; Morega, A. Laboratory installation for the study of controlled solidification of metallic materials Electrotehnica, Electronica si Automatica. Electrotehnica vol.37, no.1 : 28-34, Jan. 1989

46. Notingher, P.; Ioan, C.D. A numerical method for computing the electrical stress in dielectrics Revue Roumaine des Sciences Techniques, Serie Electrotechnique et Energetique vol.23, no.3 : 363-72, July-Sept. 1978

+ minim 22 indexate de ISI in perioada 2002 - 2012.

Rezultatul interogarii bazei de date IEEEExplore:

Daniel IOAN - **IEEEExplore** Apr. 2012:

Search for Content Type 1992-2012

[Magazines \(18\)](#)

[Conference Publications \(15\)](#)

Total: 33

**D – Lucrari publicate in reviste si volume de conferinte cu referenti  
(neidentificate ca indexate in alte baze de date)**

1. **Daniel Ioan**, S. Kratochvil. *FAP Field Analysis Program*. **Buletinul Stiintic al Institutului Politehnic Cluj Napoca**, vol. 3, nr. 32, pp. 24-29, 1989. ISSN: 1224-9106
2. **Daniel. Ioan**, C. Stancu, Al. Morega. *LOCAP Program pentru Analiza Circuitelor Logice*. In **CAS 87** Conferinta anuala de semiconductoare, **CAS'87**, pp. 241-244. Sinaia, Romania, oct. 7-10 1987.
3. **Daniel Ioan**, S.O. Kratochvil. *PREFAP - Preprocesor Interactiv pentru Descrierea Problemelor Bidimensionale de Camp Electromagnetic*. In **Conferinta nationala de electronica, telecomunicatii, automatica si calculatoare, CNETAC'88**, pp. 190-195. Bucuresti, Romania, dec. 7-9 1988.
4. **Daniel Ioan**, S.O. Kratochvil. *FAP pachet de programe pentru analiza campurilor bidimensionale*. In Al XIII-lea Simpozion de Informatica si Conducere, **SIC'89**, p. X.4. Cluj-Napoca, Romania, iun. 7-9 1989.
5. **D. Ioan**, M. Patrissi, F. M. G. Tomescu, Irina Munteanu, *TEMPUS Romanian training center in computer aided electrical engineering*, in Trans. On Intl. Conf. European Cooperation in Engineering Education, **CAEE91**, pp. 226-229. Czech Technical University, Prague, Czechoslovakia, iun. 24-26, 1991.
6. V. Beiu, **D. Ioan**, M. Dumbravă - *Continuous Boltzman Machines: Theoretical Respects and Applications*. 6th Annual European Computer Conference **COMPEURO'92**, pp. WeA-8.2, Hague, mai 4-8, 1992.
7. V. Beiu, **D. Ioan**, M. Dumbravă - *Physical Field Determination Using Continuous Boltzman Machines*. 10th **IASTED** International Conference on Applied Informatics, pp. A-1.4., 10-12 Feb. 1992, Innsbruck.
8. Aurelian Visan, **Daniel Ioan** - *Study of the Influence of the Local Geometry on the Gap and Electric Field Non-uniformity at the Electrical Discharge Machining of the Surfaces with Edges and Top*. **Scientific Bulletin - "Politehnica" University of Bucharest**, vol. 55, nr. 1-2, pp. 155-167, 1993. Seria D - Mechanical Engineering.
9. Aurelian Visan, **Daniel Ioan** - *Study of the Non-uniformity of the Electric Field at the Electrical Discharge Machining of the Surfaces with Small Radii of Curvature*. **Scientific Bulletin - "Politehnica" University of Bucharest**, vol. 55, nr. 3-4, pp. 132-139, 1993. Seria D- Mechanical Engineering.
10. Aurelian Visan, **Daniel Ioan** - *Characterisation of Tehnological System of Electrical Discharge Machining with Shape Copying*. **Scientific Bulletin -**

- "Politehnica" University of Bucharest, vol. 55, nr. 3-4, pp. 229-239, 1993.  
Seria D - Electrical Engineering.
11. **D. Ioan**, Michele Patrissi, F. M. G. Tomescu și Irina Munteanu - *TEMPUS Romanian training center in CAEE*. Intl. Conf. on Computer Aided Engineering Education **CAEE'93**, pp. 87-94. Bucharest, Romania, sept. 22-24, 1993.
  12. Mihai Popescu, **Daniel Ioan**. *Computer Aided Learning of Ordinary Differential Equations in Electrical Engineering*. Intl. Conf. on Computer Aided Engineering Education **CAEE'93**, pp. 307-311. Bucharest, Romania, sept. 22-24, 1993.
  13. Gheorghe Juncu, Irina Munteanu, Mihai Lăzărescu, **Daniel Ioan**, Gabriela Ciuprina - *FG - A program for learning data approximation*. Intl. Conf. on Computer Aided Engineering Education **CAEE'93**, pp. 387-390. Bucharest, Romania, sept. 22-24 1993.
  14. Guyot A., M. Lăzărescu, **D. Ioan**. *Educational Aspects of VLSI Training at Postgraduate Level*. **EUROCHIP Workshop** on VLSI Design Training, pp. 104-109. Toledo, Spain, 1993
  15. Dan C., S. Spanoche, M. Bodea, **D. Ioan**. *A First Trace for Students*. **EUROCHIP Workshop** on VLSI Design Training, pp. 368-372. Toledo, Spain, 1993.
  16. **D. Ioan**, M. Bodea. *The Romanian VLSI Design Postgraduate School: Breakthrough*. **EUROCHIP Workshop** on VLSI Design Training, pp. 386-391. Toledo, Spain, 1993
  17. **D. Ioan** (ed.), M. Nițescu, F. Constantinescu. *Teoria avansată a circuitelor electrice*. Editura Clubului **TEMPUS**, București, România, 1993.
  18. **D. Ioan** (ed.), M. Iordache. *Analiza asistată de calculator a circuitelor electrice neliniare*. Editura Clubului **TEMPUS**, București, România, 1993.
  19. **D. Ioan** (ed.), H. Giuroiu, L. Jurubița. *Elemente de tehnici de proiectare VLSI*. Editura Clubului **TEMPUS**, București, România, 1993.
  20. **D. Ioan** (ed.), R. Mărculescu. *Tehnici de bază în proiectarea pentru testabilitate*. Editura Clubului **TEMPUS**, București, România, 1993.
  21. **D. Ioan** (ed.), D.M. Farini. *Analiza asistată de calculator a circuitelor electronice. Modele ale dispozitivelor semiconductoare*. Editura Clubului **TEMPUS**, București, România, 1993.

22. **D. Ioan** (ed.), C. Udriște. *Minimization of function on Riemannian Manifolds for the Students of Numerical Methods in Electrical Engineering*. Editura Clubului **TEMPUS**, București, România, 1993.
23. **D. Ioan** (ed.), F. Hăntilă. *Calculul câmpului electromagnetic cu ajutorul calculatorului*. Editura Clubului **TEMPUS**, București, România, 1993.
24. **D. Ioan** (ed.), B. Ionescu. *Numerical Methods in Electromagnetic Field Computation*. Editura Clubului **TEMPUS**, București, România, 1993.
25. **D. Ioan** (ed.), A. Bossavit. *Notions d'electromagnetisme en vue de la modelisation*. Editura Clubului **TEMPUS**, București, România, 1993.
26. **D. Ioan** (ed.), F.M.G. Tomescu. *Numerical Methods in Electromagnetic Field Computation, vol. 1*. Editura Clubului **TEMPUS**, București, România, 1993.
27. **D. Ioan** (ed.), I.F. Soran. *Analyse et calcul des systemes de commande electrique assistes par ordinateur*. Editura Clubului **TEMPUS**, București, România, 1993.
28. **D. Ioan** (ed.), M. Ferenc. *Introducere practică în analiza numerică a câmpului electromagnetic - PE 2D*. Editura Clubului **TEMPUS**, București, România, 1993.
29. F.M.G. Tomescu, **D. Ioan**. *PS - CAEE Prospectus 1993 - 1994*, Editura Clubului **TEMPUS**, Bucuresti, 1993.
30. F.I. Hăntilă, **D. Ioan** - *Voltage-Current Rrelation of Circuit Elements with Field Effects*- The 6<sup>th</sup> International **IGTE'94** Symposium, pp. 41-46, Graz, Austria, sept. 1994.
31. **Daniel Ioan**, R. Dogaru, A.T. Murgan. *Designing an Analog Neuro-Fuzzy Standard Cells Library for CADENCE*. 2<sup>nd</sup> **Advanced Traning Course Mixed Design of VLSI Circuits**, pp. 96-101, 29-31 May, 1995, Kracow, Poland.
32. **Daniel Ioan**, S. Popescu, T. Dogaru. *A customized VLSI Circuit for Eddy Current Testing*. 2<sup>nd</sup> **Advanced Traning Course Mixed Design of VLSI Circuits**, pp. 311-316, 29-31 May, 1995, Kracow, Poland.
33. **Daniel Ioan**, T. Dogaru, S. Popescu. *A Comparison between two Array of CMOS Magnetic Sensor for ETC*. **NEXUS- EAST** Workshop on Microsystems. Sinaia, Romania, oct. 13-14, 1995
34. Valentin Ionita, B. Cranganu, **Daniel Ioan**. *Quasi-Stationary Magnetic Field Computation in Hysteretic Media*. **COMPUMAG '95**, Conference Record, pp. 366-367. Berlin, iul. 10-13 1995

35. **Daniel Ioan**, B. Ionescu, M. Popescu, G. Segarceanu. *Use of Computer Aided Electrical Engineering Software Packages in Postgraduate Level Education*. Proc. of 3<sup>rd</sup> International Conference on **CAEE '95**, pp. 286-291. Bratislava, sept. 13-15 1995
36. Dumitriu M., M. Piscurenciu, P.L. Mateiu și **D. Ioan**. *Method for Solving the Laplace with Hybrid Boundary Conditions*. 3<sup>rd</sup> International Conference on **CAEE'95**, pp. 373-376. Bratislava, sept. 13-15 1995.
37. V. Ioniță și **D. Ioan**. *Hysteresis is Modelling in CAD for Electromagnetic Field Problems Abstracts - DO5*. The International Symposium on Non-Linear Electromagnetic Systems, **ISEM-Cardiff**, sept. 17-20 1995.
38. F. Hantila, C. Petrache, I. Gheorma, **D. Ioan**. *3-D Finite element computation of the u-i relation for electromagnetic circuit element - DO9*. Abstracts of the International Symposium on Non-Linear Electromagnetic Systems, **ISEM-Cardiff**, sept. 17-20 1995
39. Aurelian Visan, D. Manolache, **D. Ioan**. *Proiectarea electrozilor pentru prelucrarea prin electroeroziune cu calculatorul*. Tehnologii Calitate Masini Materiale - **TCMM**, vol. 21, nr. 22, pp. 477-484, 1996
40. **D. Ioan**, F. Hantila, I. Gheorma. *A study on the combined use of edge and nodal elements*. IEEE CEFC Proceedings of the Seventh Biennial IEEE Conference on Electromagnetic Field Computation. Okayama, **CEFC**, Japan, mar. 1996.
41. **D. C. Ioan**, M. B. Sfetcu. *New models of magnetic circuit elements for coupled problems*. IEEE CEFC Proceedings of the Seventh Biennial IEEE Conference on Electromagnetic Field Computation, **IEEE- CEFC'96**, p. 445. Okayama, Japan, mar. 1996.
42. F. Hăntilă, I. Gheorma, E. Demeter, **D. Ioan**, C. Trâmbițaș. *Electromagnetic circuit element: 3D FEM analysis*. IEEE CEFC Proceedings of the Seventh Biennial IEEE Conference on Electromagnetic Field Computation, **IEEE-CEFC'96**, p. 372. Okayama, Japan, mar. 1996.
43. Tiberiu Chelcea, **Daniel Ioan**. *A hierarchy of classes for the finite element method*. . IEEE CEFC Proceedings of the Seventh Biennial IEEE Conference on Electromagnetic Field Computation, **IEEE- CEFC'96**, p. 281. Okayama, Japan, mar. 1996.
44. **D. C. Ioan**, T. Dogaru, S. Popescu. *An Array of CMOS Magnetic Sensors for Eddy Current Testing*. The European Design and Test Conference. **EDTC'96**, Paris, France, mar. 11-14 1996.



45. R. Dogaru, A.T. Murgan, **D. C. Ioan**. *Chains of Discrete Time Chaotic Neural Networks for Generation of Broadband Signals with Applications in Improved.* **MELECON 96**. Bari, Italia, apr. 1996.
46. Bogdan Vasiliu, **Daniel Ioan**, Irina Munteanu. *Optimization of electromagnetic devices on a message--passing system.* 7th International **IGTE'96** Symposium, pp. 165-170. Graz, Austria, sept. 1996.
47. Bogdan Vasiliu, Irina Munteanu, **Daniel Ioan**, Gabriela Ciuprina. *Use of message passing distributed architecture in the optimisation of a SMES.* Proceedings of 4th Romanian Open Systems Event, **Rose'96**, pp. 72-79. Bucharest, Romania, nov. 1996.
48. Bogdan Vasiliu, **Daniel Ioan**, Irina Munteanu. *Optimization of electromagnetic devices by simulated annealing in distributed architectures.* First Romanian Japanese Seminar on Electromagnetics and Mechanichs - **RJSAEM'96**, Neptun, sept. 23--26 1996.
49. **D. C. Ioan**, T. Dogaru, S. Popescu. *An Array of CMOS Magnetic Sensors for Eddy Current Testing.* First Romanian Japanese Seminar on Electromagnetics and Mechanichs **RJSAEM'96**, Neptun, sept. 23--26 1996.
50. G. Atanasiu, P. Brad, **Daniel Ioan**, G. Ciuprina. *Air Gap Magnetic Permeance Estimation for a Switched Reluctance Motor.* First Romanian Japanese Seminar on Electromagnetics and Mechanichs **RJSAEM'96**, Neptun, sept. 23--26 1996.
51. G.Ciuprina, **D.Ioan**, P.J.Leonard, D.Rodger, *Solution of TEAM Problem no.21*, Proceedings of TEAM Workshop, Graz, Austria, pp 17-19, 1996.
52. **Daniel Ioan**, Irina Munteanu, Gabriela Ciuprina. *Adjoint field technique applied in optimal design of a nonlinear inductor.* Conf. Record of the 11th Conf. on the Comp. of Electromagn. Fields **COMPUMAG'97**, pp. 141-142. Rio de Janeiro, Brazil, nov. 1997.
53. **Daniel Ioan**, Irina Munteanu, Cristian-George Constantin. *The best approximation of the field effects in electric circuits coupled problems.* Proc. 11th **COMPUMAG'97** Conf., pp. 747--748. Rio de Janeiro, Brazil, nov. 1997.
54. Gabriela Ciuprina, Bogdan Vasiliu, Cătălin Dumitrescu, Tiberiu Chelcea, **Daniel Ioan**. *Use of stochastic algorithms for distributed architectures in the optimization of electromagnetic devices.* Conf. Record of the 11th Conf. on the Comp. of Electromagn. Fields **COMPUMAG'97**, pp. 573--574. Rio de Janeiro, Brazil, nov. 1997.
55. Irina Munteanu, **Daniel Ioan**. *Some properties of the non-homogeneous anisotropic perfectly matched layer.* Conf. Record of the 11th Conf. on the Comp.

- of Electromagn. Fields **COMPUMAG'97**, pp. 9-10. Rio de Janeiro, Brazil, nov. 1997.
56. Irina Munteanu, Mihai Popescu, Cristian-George Constantin, **Daniel Ioan**. *An object oriented data structure for field analysis*. Conf. Record of the 11th Conf. on the Comp. of Electromagn. Fields **COMPUMAG'97**, pp. 189--190. Rio de Janeiro, Brazil, nov. 1997.
  57. **Daniel Ioan**, Mihai Rebican, Gabriela Ciuprina, Paul Leonard. *3D fem model of a FLUXSET sensor*. Proc. of the 3rd International Workshop on Electromagnetic Nondestructive Evaluation **E'NDE '97**. Reggio Calabria, Italy, sept. 14--16 1997.
  58. **Daniel Ioan**, Ioan-Florea Hănișilă, Mihai Rebican, Cristian Constantin. *FLUXSET sensor analysis based on nonlinear magnetic wire model of the core*. Proc. of the 3rd International Workshop on Electromagnetic Nondestructive Evaluation **E'NDE '97**. Reggio Calabria, Italy, sept. 14--16 1997.
  59. **Daniel Ioan**, Mihai Rebican, Mihai Iordache. *Approximated SPICE models of nonlinear magnetic circuits based on field solution*. Proc. of the 3rd International Workshop on Electromagnetic Nondestructive Evaluation **E'NDE '97**. Reggio Calabria, Italy, sept. 14--16 1997.
  60. **Daniel Ioan**. *Stidiul actual al cercetarilor in domeniul defectoscopiei electromagnetice nedistructive*. **Calitate '97**, U.P.B., Bucuresti, oct. 9-10, 1997
  61. Iordache M., **D. Ioan**, M. Rebican. *Spice models for FLUXSET Sensor*. **Electronic Workshop**, U.T. Cluj-Napoca, oct. 17-18 1997
  62. **Daniel Ioan**, K. Nagaya. *Forward by guest editors of Applied Electromagnetics and Mechanics* (RJSAEM 96). **Rev. Roum. Sci. Tehn. Electrotechn. Energ.**, vol. 43, nr. 3, pp. 283-284, 1998
  63. G. Ciuprina, **D. Ioan**. *TEAM problem 22 solved by a distributed stochastic-deterministic algorithm with accuracy control*. Proceedings of the **TEAM Workshop**, 7th Round, pp. 2--4. Tucson, Arizona, U.S.A., iun. 1--3 1998.
  64. **Daniel Ioan**, Alessandro Formisano, Antal Gasparics, Irina Munteanu, Mihai Rebican. *High frequency models for the NDT magnetic field sensors*. Proc. of 4th International Workshop on Electromagnetic Non-Destructive Evaluation **ENDE'98**, pp. 10--11. Chatou, France, sept. 1998.
  65. **Daniel Ioan**, Irina Munteanu, Corneliu Popeea. *Models for the capacitive effects in a magnetic field sensor*. Proc. of 8th **IGTE'98** Symposium on Numerical Field Calculation in Electrical Engineering, pp. 525--530. sept. 1998.

66. **D. Ioan**, M. Rebican, A. Gasparics. *B-H characteristic extraction using devices with nonuniform magnetic field*. Proceedings of the 8th International **IGTE'98** Symposium on Numerical Field Calculation in Electrical Engineering, pp. 414--419. Graz, Austria, sept. 1998
67. G. Ciuprina, S. Stănescu, **D. Ioan**. *Efficiency and accuracy of field evaluation in team problem no. 25*. Proceedings of the **TEAM Workshop**, 8th Round, pp. 581--584. Graz, Austria, sept. 1998.
68. **Daniel Ioan**, Irina Munteanu. *Missing link rediscovered: The electromagnetic circuit element concept*. Proc. of Japanese Romanian Joint Seminar on Applied Electromagnetics and Mechanics **JRJSAEM'98**, p. 1. Kiryu, Gunma, Japan, nov. 1998.
69. Mihai Popescu, Irina Munteanu, **Daniel Ioan**. *A distributed implementation of an object oriented data structure for field analysis*. Proc. of Japanese--Romanian Joint Seminar on Applied Electromagnetics and Mechanics **JRJSAEM'98**, p. 2. Kiryu, Gunma, Japan, nov. 1998.
70. Irina Munteanu, **Daniel Ioan**, Radu Marinescu-Frăsinei. *A distributed FVTD method for microwave devices analysis*. Proc. of Japanese--Romanian Joint Seminar on Applied Electromagnetics and Mechanics **JRJSAEM'98**, p. 50. Kiryu, Gunma, Japan, nov. 1998.
71. F. Hăntilă, M. Vasiliu, **D. Ioan**, R. Enache, B. Crânganu. *BEM for nonlinear thermal problems*. Proceedings of the Second Romanian-Japanese Joint Seminar on Applied Electromagnetics and Mechanics **JRJSAEM'98**, p. 3. Kiryu, Gunma, Japan, nov. 1998.
72. M. Rebican, **D. Ioan**. *Models for the fluxset sensor*. Proceedings of the Second Romanian- Japanese Joint Seminar on Applied Electromagnetics and Mechanics **JRJSAEM'98**, p. 66. Kiryu, Gunma, Japan, nov. 1998 .
73. G. Ciuprina, **D. Ioan**. *Distributed evolutionary strategies for electromagnetic devices optimization*. Proceedings of the Second Romanian-Japanese Joint Seminar on Applied Electromagnetics and Mechanics **JRJSAEM'98**, p. 47. Kiryu, Gunma, Japan, nov. 1998.
74. S.D. Grigorescu, **D. Ioan**, C. Cepișcă. *Sigma-delta magnetic sensor for eddy current testing*. Proceedings of the Second Romanian-Japanese Joint Seminar on Applied Electromagnetics and Mechanics **JRJSAEM'98**, p. 69. Kiryu, Gunma, Japan, nov. 1998.
75. G. Ciuprina, S. Stănescu, **D. Ioan**. *Efficiency and accuracy in the optimization of a die press model*. Proceedings of the Symposium on Advanced Topics in Electrical Engineering, **ATEE98**, Bucharest, Romania, pp. 49-53, dec. 1998.

76. **D. Ioan**, M. Rebican. *The hysteresis model for the fluxset sensor*. Proceedings of the Symposium on Advanced Topics in Electrical Engineering **ATEE 98**, Bucharest, Romania, dec. 1998.
77. Anton Duca, **D. Ioan**. *Neural network applied to solve the inverse problem in nondestructive electromagnetic testing*. Proceedings of the Symposium on Advanced Topics in Electrical Engineering **ATEE 98**, Bucharest, Romania, dec. 1998.
78. **D. Ioan**, M. Rebican, A. Gasparics. *B-H characteristic extraction using devices with nonuniform magnetic field*. Abstracts of the 8<sup>th</sup> International **IGTE'98** Symposium on Numerical Field Calculation in Electrical Engineering (IGTW '98), Graz, Austria, p. 97, sept. 1998
79. Aurelian Visan, **D. Ioan**, N. Ionescu. *Modelarea si sinularea cu calculatorul a procesului de prelucrare prin electroeroziune cu interstitiu paralel*. Revista Tehnologiei Calitate Masini Materiale - **TCMM**, vol. 33, nr. 38, pp. 253-264, 1999
80. Aurelian Visan, **D. Ioan**, N. Ionescu. *Modelarea si sinularea cu calculatorul a procesului de prelucrare prin electroeroziune cu interstitiu neparalel*. Revista Tehnologiei Calitate Masini Materiale - **TCMM**, vol. 33, nr. 38, pp. 265-272, 1999
81. Aurelian Visan, D. Neagu, **D. Ioan**, V. Tache, N. Ionescu. *Stabilirea distributiei spatiale a duritatii la durificarea suprafetelor cu fascicul de electroni*. Revista Tehnologiei Calitate Masini Materiale - **TCMM**, vol. 33, nr. 38, pp. 273-278, 1999
82. Irina Munteanu, **Daniel Ioan**. *Distributed-environment finite integral method for electromagnetic devices analysis*. 12<sup>th</sup> International Conference on Control Systems and Computer Science **CSCS-12**, vol. I, pp. 237--242. Bucharest, Romania, mai 26--29, 1999.
83. **Daniel Ioan**, Cătălin Dumitrescu, Suzana Stănescu. *Recent Benchmark Results for HPC Systems*. 12<sup>th</sup> International Conference on Control Systems and Computer Science **CSCS-12**, vol. II, pp. 169--176. Bucharest, Romania, mai 26--29, 1999.
84. **Daniel Ioan**, Gabriela Ciuprina, Suzana Stănescu, Mihai Rebican. *HPC Techniques used in Electromagnetic Field Numerical Computation*. 12<sup>th</sup> International Conference on Control Systems and Computer Science **CSCS-12**, vol. II, pp. 177--182. Bucharest, Romania, mai 26-29, 1999.
85. **Daniel Ioan**, Anton Duca. *Use of Multi-Transform-ANN to Solve Inverse ENDE Problems*. Proceedings of the 5<sup>th</sup> International Workshop on Electromagnetic Nondestructive Evaluation, **ENDE 99**, pp. 72--73. Des Moines, Iowa, USA, aug. 1--3, 1999.

86. **Daniel Ioan**, Mihai Rebican. *Nonlinear Periodic Eddy Currents in Nondestructive Testing*. Proceedings of the 5th International Workshop on Electromagnetic Nondestructive Evaluation, **ENDE 99**, pp. 108--109. Des Moines, Iowa, USA, aug. 1--3, 1999.
87. **Daniel Ioan**, Gabriela Ciuprina, Cătălin Ciubotaru. *Hybrid Algorithms for Nonlinear Equations of the Magnetic Field*. Conf. Record of the 12th Conf. on the Comp. of Electromagn. Fields **COMPUMAG'99**, pp. 244--245. Sapporo, Japan, oct. 1999.
88. Irina Munteanu, Tilmann Wittig, Thomas Weiland, **Daniel Ioan**. *Circuit parameter extraction for general electromagnetic devices using FIT/PVL*. Conf. Record of the 12th Conf. on the Comp. of Electromagn. Fields **COMPUMAG'99**, pp. 492--493. Sapporo, Japan, oct. 1999.
89. **Daniel Ioan**, Irina Munteanu. *Models for iron core transformers with capacitive effects*. Conf. Record of the 12th Conf. on the Comp. of Electromagn. Fields **COMPUMAG'99**, pp. 262--263. Sapporo, Japan, oct. 1999.
90. **Daniel Ioan**, Mihai Rebican. *B-H Hysteresis Loop Extraction using Devices with Nonuniform Magnetic Field*. Conf. Record of the 12th Conf. on the Comp. of Electromagn. Fields **COMPUMAG'99**, pp. 800--801. Sapporo, Japan, oct. 1999.
91. **Daniel Ioan**, Gabriela Ciuprina. *Solution of TEAM Problem no. 25*. Proceedings of **TEAM Workshop**, pp. 244--245. Sapporo, Japan, oct. 1999
92. G. Rubunacci, **D. Ioan**, P. Novotny, J. Pavo, A. Razek, K. Richter, D. Rodger, G. Vertesy. *Development of an Innovative Eddy Current Material Evaluation Technique*. Conference Digest of the International Symposium on Non-Linear Electromagnetic Systems, **ISEM99**, p. 94, Pavia, Italy, mai 10-12, 1999.
93. Duca, **D. Ioan**. *A Hybrid Transform - Neural Network Approach for the Inverse Problem in Non-destructive Testing*. Conference Digest of the International Symposium on Non-Linear Electromagnetic Systems, **ISEM99**, p. 94, Pavia, Italy, mai 10-12, 1999.
94. Irina Munteanu, **Daniel Ioan**, Mihai Maricaru. *PML reflection coefficient: the inhomogeneous case*. Prod. of Engineering of Modern Electric Systems - **EMES '99**, Oradea, Romania, mai 27-28, 1999.
95. Catalin Ciobotaru, Irina Munteanu, **Daniel Ioan**. *Utilizarea PETSc in rezolvarea problemelor de camp electromagnetic de mari dimensiuni*. A XXVIII-a Ses. de Com. St., Academia Tehnica Militara, **ATM** Bucuresti, Romania, oct. 21-22, 1999.

96. D. Neagu, Aurelian Visan, **D.Ioan**, V. Tache, C. Constantin. *Contributii la stabilirea distributiei spatiale a duritatii la durificarea suprafetelor cu fascicul de electroni*. Lucrarile conferintei "A 8-a Conferinta Internationala de Tehnologii Neconventionale, **CITN '99**", Timisoara, 1999.
97. Aurelian Visan, **D.Ioan**, D. Neagu, V. Tache, C. Constantin. *Cercetari privind optimizarea procesului de durificare a suprafetelor cu fascicul de electroni*. Lucrarile conferintei "A 8-a Conferinta Internationala de Tehnologii Neconventionale, **CITN '99**", Timisoara, 1999.
98. **Daniel Ioan**, M. Rebican, Anton Duca. *Use of Genetic Agents to Solve ENDE Inverse Problems*. The Sixth International Workshop Electromagnetic Nondistructive Evaluation, **ENDE**, pp. 17-18, Budapest, Hungary, iun. 2000
99. **Daniel Ioan**, M. Rebican, Anton Duca. *Teams of Autonomous Softwarw Agents (TASA) used in optimisation*. The Sixth International Workshop on Optimization and Inverse Problemsin Electromagnetism, **OIPE**, Torino, Italy, sept. 2000.
100. Gabriela Ciuprina, **Daniel Ioan**. *Evolutionary Strategies used in Optimisation of Electromagnetic Field Devices*. Proc. of the 7th International Conference on Optimisation of Electrical and Electronic Equipments, **OPTIM**, pp. 17-20. Brasov, Romania, 11-12 may 2000.
101. Irina Munteanu, **Daniel Ioan**, Florin Enache. *Symbolic computation in electromagnetics: A classroom experiment*. Proceedings of **IEEE - CEFC**. Milwaukee, Wisconsin, U.S.A., iun. 4-7 2000.
102. Irina Munteanu, **Daniel Ioan**, Catalin Ciobotaru, Gabriela Ciuprina. *Use of Computational Agents Technique for Hybrid Deterministic-Stochastic Optimization*. Proceedings of **IEEE CEFC**. Milwaukee, Wisconsin, U.S.A., iun. 4-7 2000.
103. **D. Ioan**. *Advanced computational techniques for Electromagnetic Nondestructive Evaluation*. International Seminar on Electromagnetic Nondestructive Evaluation of Welded Ferromagnetic Parts, **SENEWFP**, Bucharest, Romania, pp. 1-3, iul. 3 2000.
104. Munteanu, **D. Ioan**, C. Ciobotaru, G. Ciuprina. *Use of computational agent techniques in hybrid deterministic-stochastic optimization and inverse problems solving*. International Seminar on Electromagnetic Nondestructive Evaluation of Welded Ferromagnetic Parts, Bucharest, Romania, **SENEWFP**, pp. 23-27, iul. 3, 2000.
105. Irina Munteanu, **Daniel Ioan**. *Coupling electromagnetic devices to electric circuits using parameter extraction*. Proc. of 3rd International Workshop

- on Scientific Computing in Electrical Engineering **SCEE**. Warnemünde, Germany, aug. 2000. Invited paper.
106. Irina Munteanu, Catalin Ciobotaru, **Daniel Ioan**. *Reducing the complexity order of the algorithms for magnetic field nonlinear problems*. Proceedings of **EPNC'2000**. Cracow, Poland, sept. 2000.
107. 165. Tilmann Wittig, Irina Munteanu, **Daniel Ioan**, Thomas Weiland. *Reduction of electromagnetic circuit elements based on FIT discretization*. Proc. of 2000 **USNC/URSI** National Radio Science Meeting, p. 271. Salt Lake City, USA, aug. 2000.
108. Irina Munteanu, Catalin Ciobotaru, **Daniel Ioan**, Florin Enache. *Evaluation of concurrent and distributed software agents in electromagnetics*. 9th **IGTE** Symposium Abstracts, p. 28. Graz, Austria, sept. 2000.
109. 167. Silvia Drobny, Irina Munteanu, Thomas Weiland, **Daniel Ioan**. *Nonlinear electromagnetic field computation with FIT and triangle search method*. 9th **IGTE** Symposium Abstracts, p. 42. Graz, Austria, sept. 2000.
110. **Daniel Ioan**. *About the Numerical Solution of Inverse Nonlinear Magnetostatic Problems*. Proc. of 9th **IGTE** Symposium, p. 78. Graz, Austria, sept. 2000.
111. **Daniel Ioan**, Gabriela Ciuprina, Irina Munteanu. *Intelligent-particle swarm optimization* Proc. of 6th International Workshop on Optimization and Inverse Problems in Electromagnetism **OIPE2000**. Torino, Italy, sept. 2000.
112. G. Preda, **D. Ioan** (Eds.). *International Seminar on Electromagnetic Nondestructive Evaluation of Welded Ferromagnetic Parts*. Organized by **NERL** - The University of Tokyo and LMN - Politehnica University of Bucharest, Bucharest, Romania, 3 July 2000.
113. Gabriela Ciuprina, **Daniel Ioan**. *Evolutionary Strategies used in Optimisation of Electromagnetic Field Devices*. **Journal of Electrical Engineering**, vol. 1, nr. 2, pp. 14-18, 2001. ISSN 1582-4594
114. **Daniel Ioan**, Mihai Rebican. *Extraction of B-H relation based on the inverse magnetostatic problem*. The 10th International Symposium on Applied Electromagnetics and Mechanics **ISEM01**, pp. 143-144. Tokyo, Japan, mai 13-16 2001.
115. Sorin Dan Grigorescu, **Daniel Ioan**, Vasile Truşcă. *Computer Added Partial Discharge Test Equipment*. The 10th International Symposium on Applied Electromagnetics and Mechanics **ISEM01**, pp. 213-214. Tokyo, Japan, mai 13-16 2001.

116. Carmen Golovanov, Daniela Urma, Mihaela Albu, **Daniel Ioan**. *Magnetically induced currents in a three-dimensional human body model*. The 10th International Symposium on Applied Electromagnetics and Mechanics **ISEM01**, pp. 415- 416. Tokyo, Japan, mai13- 16 2001.
117. Gabriela Ciuprina, **Daniel Ioan**, Irina Munteanu. *Use of Intelligent-Particle Swarm Optimization in Electromagnetics*. The 13th Conference on the Computation of Electromagnetics Fields **COMPUMAG**, vol. I, pp.128-129. Lyon-Evian, France, iul.2-5, 2001.
118. **Daniel Ioan**, Mihai Rebican. *Numerical Model for Eddy Currents Testing of Ferromagnetic Steel Parts*. The 13th Conference on the Computation of Electromagnetics Fields **COMPUMAG**, vol. IV, pp. 108-109. Lyon-Evian, France, iul.2-5 2001.
119. Irina Munteanu, Bernd Trapp, Thomas Weiland, **Daniel Ioan**. *Yet Another Novel Technique for Computing Solenoidal Eigenmodes*. În The 13th Conference on the Computation of Electromagnetics Fields, **COMPUMAG**, vol. IV, pp. 224-225. Lyon-Evian, France, iul.2-5 2001.
120. Mihai Rebican, **Daniel Ioan**. *Extraction of B-H Hysteresis Loop from Measurements with Non-uniform Magnetic Field*. International **AEGEAN** Conference on Electrical Machines and Power Electronics, pp. 283-288. Kuşadası, Turkey, june 27-29 2001.
121. **Daniel Ioan**, Irina Munteanu, Catalin Ciubotaru. *Numerical Analysis of a Die Press Model for Ferrite Micromachine Poles Using Software Agents*. International **AEGEAN** Conference on Electrical Machines and Power Electronics, pp. 607-612. Kuşadası, Turkey, june 27-29 2001.
122. Gabriela Ciuprina, Florin Ciuprina, **Daniel Ioan**. *Error Estimation in a Numerical Analysis of a Nonlinear Inductor*. International **AEGEAN** Conference on Electrical Machines and Power Electronics, pp. 613-616. Kuşadası, Turkey, june 27-29 2001.
123. **Daniel Ioan**, Mihai Rebican. *Extraction of B-H Hysteresis Model from Measurements with Non-uniform Magnetic Field*. Proceedings of the First French-Romanian Colloquium of Numerical Analysis. **FRCNA** Bucharest, Octombrie 30-31 2001.
124. **Daniel Ioan**, Anton Duca, M. Rebican. *Teams of Autonomous Software Agents (TASA) to Solve Inverse ENDE Problems*. The Abstracts of Progress In Electromagnetics Research Symposium (**PIERS01**), Osaka, Japan, iul. 18-22, 2001.



125. **Daniel Ioan**, Marius-Cristian Radulescu, Florin Enache. *Fast Extraction of Static Parameters with Accuracy Control*. Book of Reviewed Abstracts, Scientific Computing in Electrical Engineering, **SCEE - 2002**, 23-28 June 2002, Eindhoven.
126. **Daniel Ioan**, Irina Munteanu, Gabriela Ciuprina. *Electromagnetic Simulation and ROM of Passive RF IC*. IEEE Proc. of **CEFC 2002**, p. 167, Perugia, June 16-19, 2002
127. **Daniel Ioan**, Gabriela Ciuprina, *Improved Algorithms for Solving Nonlinear Equations of the Magnetic Field*, Revue Roumaine des Sciences Technique - Electrotechnique et Energetique, vol. 48, no.2-3, pp. 209-220, 2003. ISSN 0035-406
128. Marius-Cristian Radulescu, **Daniel Ioan**, Gabriela Ciuprina. *Integrated Circuit Parameter Extraction with Accuracy Control*. IEEE Proc. of **CEFC 2002**, p. 346, Perugia, June 16-19, 2002.
129. **Daniel Ioan**, Marius Radulescu *FDTD cell homogenization based on dual FIT - PIERS Abstracts - Progress in Electrical Engineering Research*, March 28-31, Pisa 2004, Italy
130. **Daniel Ioan**, Marius Piper *FIT Models with Frequency Dependent Hodge Operators for HF Effects in Metallic Conductors - PIERS Abstracts - Progress in Electrical Engineering Research*, March 28-31, Pisa 2004, Italy
131. **Daniel Ioan**, Catalin Ciobotaru *Equivalent Circuits of Linear Order for Electromagnetic Field Problems - PIERS Abstracts - Progress in Electrical Engineering Research*, March 28-31, Pisa 2004, Italy
132. **Daniel IOAN**, Gabriela CIUPRINA, Marius RĂDULESCU, Marius PIPER *All Levels Strategy to Reduce the Model Order of On-chip Passive Components*, IEEE Conference on Electromagnetic Field Computation **CEFC 2004**, Digest Book p345, Seoul, Korea, June 6-9, 2004
133. **Daniel Ioan**, Gabriela Ciuprina, M. Radulescu and M. Piper – *Algebraic Sparsified Partial Equivalent Circuit (ASPEEC)*. Scientific Computing in Electrical Engineering - **SCEE 2004**, Digest Book, Sept. 5-9, 2004, Capo D'Orlando Italy
134. Gabriela Ciuprina, **Daniel Ioan** **ALLROM STRATEGY FOR ORDER REDUCTION OF ON-CHIP PASSIVE STRUCTURES AT HIGH FREQUENCIES**, **ATEE 2004**, 25-26 Nov. 2004, P.U.B.
135. **D. Ioan**, W. Schieleders, W. Schoenmaker, P. Meuris, E. Seebacher, D.D. Zutter, J. Maubach, *Objectives and Scientific Achievements of the European*

- Research Project Codestar*, CODESTAR Workshop at **ATEE 2004**, 25-26 nov. 2004, P.U.B.
136. Cătălin Ciobotaru, **Daniel Ioan** *Local Adaptive Multigrid for Finite Integrals Technique*, CODESTAR Workshop at **ATEE 2004**, 25-26 nov. 2004, P.U.B.
137. **Daniel Ioan** and Gabriela Ciuprina, *Very Fast Simulation Strategy (VFSS) Developed within Codestar Project*, CODESTAR Workshop at **ATEE 2004**, 25-26 nov. 2004, P.U.B.
138. **Daniel Ioan** and Laurentiu Nedelcu, *Boundary Conditions in Compact Models Extraction of On-chip Passive Structures*, CODESTAR Workshop at **ATEE 2004**, 25-26 nov. 2004, P.U.B.
139. Diana Mihalache, Gabriela Ciuprina, **Daniel Ioan**, *Codestar Benchmark Structures, Comparisson between Measurement and Simulations*, CODESTAR Workshop at **ATEE 2004**, 25-26 nov. 2004, P.U.B.
140. Melinda Mandruta, Gabriela Ciuprina, **Daniel Ioan**, Peter Meuris, *Reduced-Order Macromodel Extracted from the Frequency Domain Simulator of Passive On-Chip Components*, Symposium on Advanced Topics in Electrical Engineering (ATEE) ) – Workshop on Compact Modelling of ON-chip Passive Structures at High Frequencies, 4 pages, Bucharest, 2004.
141. **Daniel Ioan**, Gabriela Ciuprina, Marius Radulescu, Ehrenfried Seebacher - *Compat modeling and fast simulation of on-chip interconnect lines*, **Compumag 2005** Seyshan, 25-19 June, 2005, oral plenary presentation.
142. **Daniel Ioan**, G. Ciuprina, M. Radulescu, *Absorbing Boundary onditions for Compact Modeling of On-chip Passive structures*, **ISEF 2005** International Symposium on Electromagnetic Fields in Mechatronics, Electrical and Electronic Engineering, Baiona, Spain, Sep. 15-17, 2005, oral presentation - best paper award.
143. **Daniel Ioan**, Gabriela Ciuprina - *"Reduced Order EM Models based on dual FIT"*, The book of abstracts of the 12th Biennial IEEE Conference on Electromagnetic Field Computation **CEFC 2006**, Miami, Florida USA, April 30 – May 3, 2006
144. Gabriela Ciuprina, **Daniel Ioan**, Diana Mihalache – *"Compact models of passive on-chip components obtained from high frequency Simulations"*, Romania - Book of abstract Scientific Computing in Electrical Engineering **SCEE 2006**, Sinaia – Romania, 17-22 September 2006

145. **Daniel Ioan**, Gabriela Ciuprina, Dragos Niculae, Diana Mihalache – “*On-chip Interconnect Lines Simulation using Finite Integration Technique adapted to Transversal Magnetic Field*”, Book of abstract Scientific Computing in Electrical Engineering **SCEE 2006**, Sinaia – Romania, 17-22 September 2006
146. **Daniel Ioan** - “*European projects in Numerical Models Laboratory of Polytechnic University of Bucharest related to the European Technology Platform in Nanoelectronics*” . The 5th Romanian Workshop in Nanoscience and Nanotechnology, 2nd March 2006, **Romanian Academy**.
147. Florin Constantinescu, Alexandru Gheorghe, **Daniel Constantiu Ioan**, “*A New Approach to the Computation of Reduced Order Models for One-Port and Two-Ports RC Circuits*”, 2006 IEEE International Symposium on Circuits and Systems-**ISCAS06**, May 21-24, 2006 Kos, Greece.
148. Gabriela Ciuprina, **Daniel Ioan**, Diana Mihalache – “*Compact models of passive on-chip components obtained from high frequency Simulations*”, Scientific Computing in Electrical Engineering **SCEE 2006**, Sinaia – Romania, 17-22 September 2006
149. **Daniel Ioan**, Gabriela Ciuprina, Wil Schilders, Wim Schoenmaker, Michele Stucchi, Ehrenfried Seebacher, Daniel De Zutter, Joseph Maubach, *Compact Modeling of Passive on-chip Components - European Research Project FP5/IST/CODESTAR*, Revue Roumaine des Sciences Technique - Electrotechnique et Energetique, vol. 51, no. 3, pp. 303-310, 2006. ISSN 0035-406
150. **Daniel Ioan** and Gabriela Ciuprina, *Parametric Models for Electromagnetic Field Systems Related to Passive Integrated Components*, Progress in Electromagnetics Research Symposium (**PIERS 2007**), March 26–30, 2007, Beijing, China.
151. **D. Ioan**, W.H.A. Schilders and G. Ciuprina, *Parametric-Circuit Models for Electromagnetic Field Systems Related to RF Passive Integrated Components*, 16th International Conference on the Computation of Electromagnetic Fields, **Compumag 2007**, Aachen, Germany, June 24-28
152. **Daniel Ioan**, Gabriela Ciuprina, Sebastian Kula, *Reduced Order Models for HF Interconnect over Lossy Semiconductor Substrate*, **SPI07** -11th IEEE WORKSHOP ON SIGNAL PROPAGATION ON INTERCONNECTS, May 13-16, 2007, Genova, Italy
153. **Daniel Ioan**, Wil Schilders, Gabriela Ciuprina, Nick van der Meijs, Wim Schoenmaker, *MODELS FOR INTEGRATED COMPONENTS COUPLED WITH THEIR EM ENVIRONMENT* **ISEF 2007** – XIII International Symposium on Electromagnetic Fields in Mechatronics, Electrical and Electronic Engineering, Prague, Czech Republic, September 13-15, 2007

154. Gabriela Ciuprina, Daniel Ioan, Dragos Niculae, Jorge Fernandez Villena, L. Miguel Silveira, *Parametric models based on sensitivity analysis for passive components - ISEF 2007* – XIII International Symposium on Electromagnetic Fields in Mechatronics, Electrical and Electronic Engineering, Prague, Czech Republic, September 13-15, 2007,
155. Wim Schoenmaker, Peter Meuris, Erik Janssens, Wil Schilders, Daniel Ioan, *Modeling of Passive-Active Device Interactions ESSDERC 2007*, 11 - 13 September 2007, Munich, Germany
156. Dragos Isvoranu, **Daniel Ioan**, Petrisor Parvu, Numerical simulation of single artificial cilium magnetic driven motion in a semi-infinite domain, Proceedings of **mFLU08** the 1st European Conference on Microfluidics-Microfluidics 2008-Bologna, December 10-12, 2008, ISBN 2-906831-76-X, paper 226.
157. **Daniel Ioan**, Gabriela Ciuprina and L. Miguel Silveira, Effective Domain Partitioning with Reduced Number of Electric and Magnetic Hooks, IEEE Conference on Electromagnetic Field Computation **IEEE-CEFC 2008**, Athens, Greece, May 11 - 15, 2008.
158. Gabriela Ciuprina, Daniel Ioan and Diana Mihalache, Magnetic Hooks in the Finite Integration Technique: a Way Towards Domain Decomposition, IEEE Conference on Electromagnetic Field Computation **IEEE-CEFC 2008**, Athens, Greece, May 11 - 15, 2008
159. Alexandra Stefanescu, **Daniel Ioan**, and Gabriela Ciuprina, "Parametric Models of Transmission Lines Based on First Order Sensitivities", The 7<sup>th</sup> International Conference on Scientific Computing in Electrical Engineering **SCEE 2008** September 28 - October 3, 2008, Helsinki University of Technology Espoo, Finland
160. Mihai Rebican and **Daniel Ioan**, Integral equation method for magnetic modelling of cilia, The 7<sup>th</sup> International Conference on Scientific Computing in Electrical Engineering **SCEE 2008** September 28 - October 3, 2008, Helsinki University of Technology Espoo, Finland
161. Gabriela Ciuprina, **Daniel Ioan**, Diana Mihalache, and Ehrenfried Seebacher: "Domain Partitioning Based Parametric Models for Passive On-chip Components", The 7<sup>th</sup> International Conference on Scientific Computing in Electrical Engineering **SCEE 2008** September 28 - October 3, 2008, Helsinki University of Technology Espoo, Finland
162. Diana Mihalache, **Daniel Ioan**, Gabriela Ciuprina, and Alexandra Stefanescu, Parametric Reduced Compact Models for Passive Components, The 7<sup>th</sup> International Conference on Scientific Computing in Electrical Engineering

**SCEE 2008** September 28 - October 3, 2008, Helsinki University of Technology Espoo, Finland

163. **Daniel Ioan** (Politehnica University of Bucharest, Romania), Parametric reduced-order models for passive integrated components coupled with their EM environment, invited tutorial at The 7<sup>th</sup> International Conference on Scientific Computing in Electrical Engineering **SCEE 2008** September 28 - October 3, 2008, Helsinki University of Technology Espoo, Finland
164. Gabriela CIUPRINA, **Daniel IOAN**, Diana MIHALACHE, Alexandra STEFANESCU The Electromagnetic Circuit Element – the Key of Modelling EM Coupled Integrated Components, Simpozionul Național de Electrotehnică Teoretică, **SNET '08 5 - 7 IUNIE 2008**, București, UPB, Facultatea de Inginerie Electrică
165. Alexandra STEFANESCU, Gabriela CIUPRINA, **Daniel IOAN**, Models for Variability of Transmission Line Structures, **SPI08**, 12<sup>th</sup> Workshop on Signal Propagation on Interconnect, Avignon – Popes' Palace, May, 12-15 - 2008
166. Yu Bi, N.P. van der Meijs, **Daniel Ioan**, Capacitance Sensitivity Calculation for Interconnects by Adjoint Field Technique, , **SPI08**, 12<sup>th</sup> Workshop on Signal Propagation on Interconnect, Avignon – Popes' Palace, May, 12-15 - 2008
167. J. Niehof, H.H.J.M. Janssen, W.H.A. Schilders, W. Schoenmaker, **D. Ioan**, Gabriela Ciuprina, W. Pflanzl, Verification of Domain Decomposition for Modeling of Electromagnetic Effects in Complete RF blocks , , **SPI08**, 12<sup>th</sup> Workshop on Signal Propagation on Interconnect, Avignon – Popes' Palace, May, 12-15 - 2008
168. **Daniel Ioan**, Gabriela Ciuprina and L. Miguel Silveira, Effective Domain Partitioning with Electric and Magnetic Hooks, IEEE Conference on Electromagnetic Field Computation **IEEE-CEFC 2008**, Athens, Greece, May 11 - 15, 2008
169. Gabriela Ciuprina and **Daniel Ioan**, *Importance of the Terminal Excitation Type on System Representation for Model Order Reduction Procedures*, 6<sup>th</sup> Symposium on Advanced Techniques in Electrical Engineering, **ATEE 08**, Bucuresti, pp. 121-125, 2008. ISBN 978-606-521-137-7
170. Dragos Isvoranu, **Daniel Ioan**, Petrisor Parvu, Numerical simulation of single artificial cilium magnetic driven motion in a semi-infinite domain, **Houille Blanche**, No. 6, pp. 101-108, 2009. ISSN 0018-6368
-

171. Dragos Isvoranu, **Daniel Ioan**, Petrisor Parvu, Rotating magnetic field actuation of a multicilia configuration, **μFLU'09**, 2nd Micro and Nano Flows Conference, West London, UK, 1-2 September 2009, 978-1-902316-72-7, paper 40
172. Gabriela Ciuprina, Alexandra Ștefănescu, **Daniel Ioan** and Radu Popescu *Extraction of reduced parametric circuit models for passive on-chip components*, 6<sup>th</sup> Japanese-Mediterranean Workshop on Applied Electromagnetic Engineering for Magnetic, Superconducting and Nano Materials, **JAPMED6**, Politehnica University of Bucharest, Romania, July27-29, 2009, pp.101-102
142. Gabriela Ciuprina, Alexandra Ștefănescu, **Daniel Ioan**, *Frequency dependent parametric models for transmission line structures*, **ISEF 2009 - XIV** International Symposium on Electromagnetic Fields in Mechatronics, Electrical and Electronic Engineering Arras, France, September 10-12, 2009, pp.477-478,
143. **Daniel Ioan**, Gabriela Ciuprina, Radu Popescu, *Hierarchical Sparsified Models for the Substrate of Integrated Circuits*, **COMPUMAG 2009** – Conference on the Computation of Electromagnetic Fields , Florianopolis, Brasil, 22-26 November 2009.
144. Jorge Fernandez Villena, L. Miguel Silveira, Gabriela Ciuprina, **Daniel Ioan**, Sebastian Kula, *Parametric Model Order Reduction*, **COMSON handbook**, Springer Verlag, 20 pages, accepted for publication.
145. Gabriela Ciuprina, Alexandra Stefanescu, Sebastian Kula **and Daniel Ioan**, *Robust Procedures for Parametric Model Order, Reduction of High Speed Interconnects*, **COMSON handbook**, Springer Verlag, 30 pages, accepted for publication.
146. Alexandru LAZĂR, Radu POPESCU, **Gabriela CIUPRINA**, Daniel IOAN, *Parallel iterative techniques for the extraction of line parameters of interconnects*, SIMPOZIONUL NAȚIONAL DEELECTROTEHNICĂ TEORETICĂ SNET'09, Politehnica University of Bucharest, Romania , 27 Noiembrie 2009, pp.69-74. ISSN 2067 - 4147
147. Semih Ozel, **Daniel IOAN**, Mihai Rebican, A model for magnetic actuation of the artificial multicilia 6th INTERNATIONAL CONFERENCE on ELECTRICAL and ELECTRONICS ENGINEERING **ELECO2009**, 5-8 November 2009, Bursa, TURKEY
173. Dragos Isvoranu, **Daniel Ioan**, Sterian Danaila, Petrisor Parvu, Numerical simulation of oscillating flow over a 3D Magnetic actuated array of cilia, Proceedings of the 2nd European Conference on Microfluidics-Microfluidics

2010-Toulouse, France, December 8-10, 2010, **μFLU'10**, ISSN 2108-4718, ISBN 978-2-90683-85-8.

174. Visan, A.; Neagu, D.; Ionescu, N. & **Ioan, D.** (2010). Mathematical and Experimental Modelling of the Electron Beam Surface Hardening, Annals of **DAAAM** for 2010 & Proceedings of the 21st International DAAAM Symposium, 20-23rd October 2010, Zadar, Croatia, Katalinic, B. (Ed.), pp. 0783-0784, Published by DAAAM International Vienna, ISSN 1726-9679, ISBN 978-3-901509-73-5,
175. Visan, A.; Neagu, D.; Ionescu, N. & **Ioan, D.** (2010). The Effect of Electrical - Technological Parameters on Electron Beam Surface Hardening, Annals of **DAAAM** for 2010 & Proceedings of the 21st International DAAAM Symposium, 20-23rd October 2010, Zadar, Croatia, ISSN Katalinic, B. (Ed.), pp. 0785-0786, Published by DAAAM International Vienna, 1726-9679, ISBN 978-3-901509-73-5,
176. Gabriela Ciuprina, **Daniel Ioan**, Ioan-Alexandru Lazar, Iulian Andrei, *Adaptive Frequency Sampling for the Effective Extraction of Reduced Order Models for HF-ICs Passive Components*. Lucrarile. Simpozionul National de Electrotehnica Teoretica, SNET 2010. ISSN 2067-4147, 6 pagini
177. Iulian Andrei, Emanuela Caciulan, Daniel Dan, Gabriela Ciuprina, **Daniel Ioan**, *Matlab Based Parallel Deterministic Optimization of the Loney's Solenoid*, Acta Electrotehnica, ISSN 1841-3323, vol. 51, no. 5, pp. 9-14, 2010
178. Ioan-Alexandru Lazăr, Gabriela Ciuprina, **Daniel Ioan**, *Effective extraction of accurate reduced order models for HF-ICs using multi-CPU architectures*. The 11th International Workshop on Optimization and Inverse Problems, Electromagnetism - **OIPE 2010**, 14-18 September 2010, Sofia, Bulgaria.
179. Gabriela Ciuprina and **Daniel Ioan** *Efficient Modeling of Homogenous Layers in High Frequency ATEE 2011, The 7<sup>th</sup> International Symposium on ADVANCED TOPICS IN ELECTRICAL ENGINEERING*, MAY 12-14, 2011, Bucharest, Romania, ISSN 2068-7966
180. Ioan-Alexandru Lazar, Mihail-Iulian Andrei, Emanuela Caciulan, Gabriela Ciuprina and **Daniel Ioan**, *Parallel Algorithms for the Efficient Extraction of Fitting Based Reduced Order Models*, **ATEE 2011, The 7<sup>th</sup> International Symposium on ADVANCED TOPICS IN ELECTRICAL ENGINEERING**, MAY 12-14, 2011, Bucharest, Romania, ISSN 2068-7966
181. Gabriela Ciuprina, **Daniel Ioan**, Ioan Alexandru Lazar, and Cosmin Bogdan Dita, *Vector Fitting based Adaptive Frequency Sampling for Compact Model Extraction on HPC Systems*, **COMPUMAG 2011**, Sydney, Australia

182. **Gabriela Ciuprina**, Cosmin Bogdan Dita, Mihai Iulian Andrei, and Daniel Ioan *Hierarchical Sparse Circuits for the Modeling of Homogeneous Domains in High Frequency ICs*, pp.181-188, Politehnica Press, 2012.

**Note:** Cei care au inventat acest sistem de structurare a listei de lucrari nu au conceput categorii disjuncte, in consecuta, este posibil sa gasiti lucrari dublate in lista de mai sus. Ca semn de protest pentru aceasta aberatie nu caut manual dublurile. Oricum lucrarile de 1-2 pagini care au aparut in volumele de abstracte ale conferintelor sunt diferite de lucrarile finale in 4-6 pagini. Pentru fiecare s-au facut eforturi de elaborare si au trecut prin doua procese diferite de evaluare internationala.

## **F – Contracte, granturi (cele mai importante)**

1. Daniel Ioan - PUB team coordinator - *Compact modeling of on-chip passive structures at high frequencies (CODESTAR)*, FP5-IST, Area: Microelectronics technologies: processes, equipment and devices, Contract no:34058, 2002-2004, Budget PUB: 224 222 Euro. Scientific objectives:

The main goal of the **CODESTAR** project was the development of a new modeling methodology and a code dedicated for the electromagnetic simulation of passive on-chip structures resulting in a small simulation network. First a detailed analysis of the test structure is carried out using an electromagnetic field solver. The outcome of the field solver is a full net list describing the detailed characteristics of the passive structure. This net list will be too large to be useful and therefore a systematic reduction of the net list must be done (by MOR - Model Order Reduction). The resulting compact equivalent lumped-element model is inserted back into the full design scheme and the design cycle can be pursued. Parallel fabrication, characterisation and evaluation of dedicated test structures was carried out, in order to validate the **CODESTAR** code. The matching between experimental and **CODESTAR** simulation results was the measure of the project success consideration. The accuracy obtained was less than 5%. Various three-dimensional structures like line splits, widening and crossings from DC up to 20 GHz micron over a semiconducting substrate including the drift-diffusion flows, for a mesh size of at least 40x40x40 nodes. This calculation have been carried out in no more than 180 minutes. As to the Reduced Order Modeling benchmark specification, our commitments were fulfilled:

- Frequency range 0-20 GHz
- Initial state space size (number of Degrees Of Freedom) > 100.000
- Expected final state space size < 30.000
- Expected accuracy over the frequency range 5 %
- Topological and geometric complexity: corresponding to 3D field solvers benchmarks
- Clock wall computing time on state-of-the-art SUN workstation: <10.000 seconds



2. Daniel Ioan - PUB coordinator - *Comprehensive High-Accuracy Modelling of Electromagnetic Effects in Complete Nanoscale RF Blocks (CHAMELEON RF)*, FP6-IST, Area: Nanoelectronics, Contract no: 027378, 2005-2008, Budget PUB: 247 800 Euro. Scientific objectives:

In the **CHAMELEON RF** project it was developed a prototype tool-set able to accurately predict the behaviour of complete RF functional blocks. The functional requirements set for the design framework allowing for the high-fidelity verification of RF blocks includes the following:

- Electromagnetic modeling tools allow for a multi-scale (MS) and a multi-resolution (MR) in order to take into consideration coupling with the noisy EM environment. A new concept of magnetic hooks was developed in this respect.
- Models of functional blocks are described in terms of net lists (SPICE) to allow inclusion in the design flows. They are manageable in size to allow accurate behaviour verification.
- Such models also account for the dependence on relevant design or operating parameters. Effective Parametric Model Order Reduction methods were developed in this respect.

3. Daniel Ioan - Project initiator and coordinator - *Early Stage research Training at an EaSTern European Site with Tradition (EST3)*, FP6-MOBILITY, Area: Marie Curie Host Fellowships - Early stage research training (EST), Contract no: 20552, 2005-2009, <http://est3.lmn.pub.ro/> Budget PUB: 744 000 Euro. Scientific objectives:

The **EST3** project comprised two embedded components: structural training at Doctoral level and an advanced research project in Nanoelectronics. The host offers opportunities of research training at highest level for 6 doctoral candidates (three years stay for each) as well as for 12 short stays (four months each). The main objective of the training part of EST3 project was to train graduate engineers with a strong mathematical background to develop and have them apply their skills to solve real life advanced open problems in their domain of engineering, using the most efficient computational tools and appropriate mathematical models. The structural training component of the project is related to the broad and interdisciplinary area of Computational Science and Engineering (CSE), based on Applied Mathematics, Computational Science and Engineering Sciences (particularly Electrical Engineering). The blended research component of the EST3 project had as objective the development of an original nano-electronic design automation methodology and corresponding software tools, in synergy with other European joint projects.

4. Daniel Ioan - PUB team coordinator - *Coupled Multiscale Simulation and Optimization in Nanoelectronics (COMSON)*, FP6-Mobility, Area: Marie Curie Research Training Networks (RTN), Contract no: 019417, 2005-2010, PUB Budget: 233 000 Euro, Scientific objectives:

The main objective of the **COMSON** Consortium, an European industry-academic partnership was to realize an experimental Demonstrator Platform in software code, which comprises coupled simulation of devices, interconnects, circuits, EM fields and thermal effects in one single framework. It connects each individual achievement, and it offers an adequate simulation tool for optimization in a compound design space. The Consortium used the Demonstrator Platform as a framework to test mathematical methods and approaches, so as to assess whether they are capable of addressing the industry's problems, and to adequately educate young researchers by hands-on experience on state-of-the art problems, and beyond.

5. Daniel Ioan - project initiator and coordinator - *High Performance Computing Knowledge for nano-Electronic Design Automation (ToK4nEDA)*, FP6-MOBILITY Area:Marie Curie Host Fellowships - Transfer of knowledge (TOK), Contract no: 042603, <http://tok.lmn.pub.ro/>, 2006-10, PUB Budget: 351451 Euro, Scientific objectives:

The **ToK4nEDA** project aimed to reinforce the competence in the area of High Performance Computing (HPC) hardware, software, and networking solutions at "Politehnica" University of Bucharest Romania. The transferred knowledge was exploited by the local scientific community involved in a series of European research projects in the area of nanoelectronics. This interdisciplinary community committed and succeeded to create an innovative platform for nano-Electronic Design Automation (nEDA). They have been developed efficient modeling and simulation software tools such as ROM-Workbench and Chamy. New-transferred HPC technology allow the local researchers to solve realistic problems for the benefit of the European industry. Since the leader Silicon European companies are involved in these projects, the IPR generated, will contribute directly to the increase of the European industry competitiveness. Tok reinforced not only research, but also the capability of PUB to provide training at the highest scientific quality. The research training in domain of Scientific Computation in Electrical Engineering (SCEE) and in broader area of Computational Science and Engineering (CSE), at all levels: Bachelor, Master, Doctoral, and post-doc was improved.

6. Daniel Ioan - PUB team coordinator - *Nature-inspired micro-fluidic manipulation using artificial cilia (ARCTIC)*, FP6-NMP, Area:Nanotechnology and nanoscience, Contract no: 033274, 2006-2010, PUB Budget: 181 200 Euro, Scientific objectives:

The overall objective of **ARCTIC** project was to explore and develop a novel micro-fluidics process and technology on the basis of polymeric micro-actuators inspired by the natural ciliates, that can be fully integrated within a complete micro-fluidics system, such as a biosensor device or a micro-channel system for micro- or nano-electronics cooling, and validate this approach using experiments. The actuation of the micro-actuators, or artificial cilia, was done by magnetic fields. The final test consisted of fluid flow characterization and optimisation in a basic micro-fluidic device containing the artificial cilia, which will prove the ability of the technology to pump a liquid through micro-channels, with properties that allow use in a biosensor device.

7. Daniel Ioan - Initiator si director de proiect - *Metodologii si instrumente pentru proiectarea nano-electronica automata - nEDA*, CEEX – Modul I, nr

03 / 06.10.2005, <http://neda.lmn.pub.ro/>, 2005-2008, Buget: 1 557 631 lei,  
Obiective stiintifice:

Proiectul complex **nEDA** a avut o serie de obiective cu caracter științific, tehnic, economic și social, toate în acord cu obiectivele platformei PT5, ale programului național CEEX, dar și cu strategiile programelor cadru europene de cercetare, strategia națională în domeniu și a instituțiilor participante. Din punct de vedere științific, obiectivul principal dorit și atins a constat în dezvoltarea teoriilor, metodelor, tehnicilor și modelelor necesare realizării noii generații de instrumente de proiectare electronică automată în industria nanoelectronică (în acord cu cerințele platformei tehnologice europene ENIAC). S-au avut în vedere mai ales instrumentele software de verificare fizică, a integrității semnalelor, de extragere a parametrilor concentrați (R, L, C), dar și de aproximare finită a elementelor cu parametri distribuiți prin modelare electromagnetică și reducerea ordinului, precum și instrumentele de optimizare.

8. Daniel Ioan - PUB team coordinator - *Novel nondestructive material testing technique based on a new magnetic field measurement principle (MANODET)*, FP5/Copernicus, No. ERBIC15CT960703, 1997-2000, Buget: 100 000ECU, Scientific objectives:

The MANODET project was aimed at the development of an innovative and cost-effective measurement method for reliable, nondestructive testing of crucial material parameters. With the extensive use of mathematical modeling the new system is capable of extracting information for safe operation of essential parts in harsh environment. A proprietary high sensitivity sensing principle (Fluxset) has been developed for the measurement of weak (0.1 nT- 500 mT) DC and low frequency magnetic fields. It was effectively applied in the nondestructive testing of materials. It was successfully used for the detection of defects in conducting materials by means of Eddy Current Testing (ECT). Its high sensitivity enables the low frequency excitation, and thereby a larger penetration of the electromagnetic waves into the conducting material (increased sampling depth).

9. Daniel Ioan - Co-initiator și partner - *Dezvoltarea calculului de înalta performanță în România, (CoLaborator)*, Banca Mondială/CNCSU/BCUM, 1998-2000, Buget: 1 000 000USD, Obiective știintifice:

Instalarea unui sistem de calcul multiprocesor, de înalta performanță Sun Enterprise 10k în RoEduNet, achiziția, instalarea software de sistem și pentru aplicații știintifice (ANSYS, MATLAB). Instruirea utilizatorilor pentru folosirea profesională în activitatea avansată de cercetare știintifică a resurselor instalate. Se urmăresc următoarele:

**Accesul larg**, pentru comunitatea academică românească, la un server HPC puternic. **Dezvoltarea unei noi paradigme de colaborare** între specialiștii în calculatoare, calcul știintific și alte domenii de cercetare. **Promovarea cercetărilor avansate și interdisciplinare** prin utilizarea unei resurse de calcul de mare performanță. **Dezvoltarea resurselor umane** prin programe de tip: Master, Doctorat, postuniversitare. **Integrarea CoLaborator în rețeaua nodurilor de excelență din Europa** ("Technology Transfer Nodes - TTN" și "High Performance Computing Network - HPCN", proiecte în cadrul

programului ESPRIT) si din SUA (HPCC Initiative of National Science Foundation). **Sprijinirea transferului de tehnologie** in domeniul calculului de inalta performanta va reprezenta un castig important pentru industria si cercetarea romaneasca.

10. Daniel Ioan - Co-initiator and contractor - *Audiovisual Communication based on Information Technologies (ACIT)*, TEMPUS JEP 2912, 1995-1998, Buget: 550 000 ECU, Scientific objectives:

Development of new communication abilities based on information technology, multimedia, Internet, web design, CD-ROM editing, etc. in both art and technical Romanian universities.

11. Daniel Ioan - Initiator and coordinator - *Initiation of Formal Training in CAEE in Romanian Universities. (PSCAEE)*, TEMPUS, No JEP/JEN 2717., 1991-1995, Buget: 650 000 ECU, Scientific objectives:

Development of new knowledge in computer aided electrical engineering - CAEE, transfer of knowledge, networking, research and training at postgraduate level. The first graduate course program in this area was setup at Polytechnic University of Bucharest. Local and prestige foreign professors (Kurt Richter, Thomas Weiland, Alain Bossavit, Guglielmo Rubinacci, David Rodger, John Tegopoulos and later Kenzo Miya from Japan and Nathan Ida from USA) made presentations in the Postgraduate School CAEE. First UNIX-LAN of hybrid workstations (SUN Sparcstation, DECStation, VaxSattion, Silicon Graphics Iris Indigo, HP workstation) was acquired and used for trading of students and instructors. Advanced software for Magnetic CAD and Circuit design (such as Europractice, Cadence, etc). First integrated circuit with today technology was designed by students and realized by Europractice services. A series of 12 textbooks were edited by the TEMPUS Club initiated within this project. Stages abroad, in the best laboratories (IGTE Graz, INPG Grenoble, U. Genoa, U. Naples, NTU Athens, Bath University, TU Darmstadt, etc. ) for students and teachers contributed to the European networking of Romanian Community. The project was a real breakthrough of the wall which isolated Romanian academic community during the past regime.

12. D. Ioan - project initiator and coordinator- *Extention of Eurochip Services to Central and Eastern European Countries*, **EUROEAST** - INCO-COPERNICUS CP - 939093/1995

13. D. Ioan - project initiator and coordinator - *International Conference on Computer Aided Engineering Education - CAEE'93*, PECO'92 (LOST) Action no. 3227- Budget 20 000ECU.

## G – Indicatori scientometrici

**I1 = 5.92** >=4; **P = 7.91** >=2; **C > 34.4** >=5

**Conf. ORDIN MECTS nr. 4478 din 23 iunie 2011**

V= I1\*P \*C=1608 > 4\*2\*5=40 mai mare de 40 ori decat conditia minima de ablitare!

<http://www.researcherid.com/rid/C-4338-2011> - **ISI h-index = 7** **Nr. citari: 209**

Calculare efectuale la data de 7 mai 2012 folosind lista ISI fara dubluri.

<http://code.google.com/p/citations-gadget/> **H-Index = 7** (Indice calculat pe baza Google-Scholar Author: Daniel Ioan+ G Ciuprina pentru a evita confuzia de nume)

Nr.	Referinta bibliografica	s_i	n_i	p_i	s_i/n_i	s_i/p_i
1	Vector Fitting Based Adaptive Frequency Sampling for Compact Model Extraction on HPC Systems, Author(s): Ciuprina, G (Ciuprina, Gabriela); Ioan, D (Ioan, Daniel); Lazar, IA (Lazar, Ioan Alexandru); Dita, CB (Dita, Cosmin Bogdan) Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 48 Issue: 2 Pages: 431-434 DOI: 10.1109/TMAG.2011.2174344 Published: FEB 2012	0.83294	4		0.20823	
2	Kinematics and flow characteristics of a magnetic actuated multi-cilia configuration, Author(s): Isvoranu, D (Isvoranu, Dragos); Ioan, D (Ioan, Daniel); Parvu, P (Parvu, Petrisor) Source: MEDICAL ENGINEERING & PHYSICS Volume: 33 Issue: 7 Special Issue: SI Pages: 868-873 DOI: 10.1016/j.medengphy.2010.10.006 Published: SEP 2011	1.48984	3		0.49661	

3	<p>Nature-inspired microfluidic propulsion using magnetic actuation, Author(s): Khaderi, SN (Khaderi, S. N.); Baltussen, MGHM (Baltussen, M. G. H. M.); Anderson, PD (Anderson, P. D.); Ioan, D (Ioan, D.); den Toonder, JMJ (den Toonder, J. M. J.); Onck, PR (Onck, P. R.) Source: PHYSICAL REVIEW E Volume: 79 Issue: 4 Article Number: 046304 DOI: 10.1103/PhysRevE.79.046304 Published: APR 2009</p> <p>Times Cited: 18 (from Web of Science)</p>	1.43073	6		0.23845	
4	<p>Effective Domain Partitioning With Electric and Magnetic Hooks, Author(s): Ioan, D (Ioan, Daniel); Ciuprina, G (Ciuprina, Gabriela); Silveira, LM (Silveira, Luis Miguel) Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 45 Issue: 3 Pages: 1328-1331 DOI: 10.1109/TMAG.2009.2012616 Published: MAR 2009 Times Cited: 1 (from Web of Science) Cited References:</p> <p>11</p>	0.83294	3	1	0.27765	0.83294
5	<p>Parametric models based on the adjoint field technique for RF passive integrated components, Author(s): Ioan, D (Ioan, Daniel); Ciuprina, G (Ciuprina, Gabriela); Schilders, WHA (Schilders, W. H. A.) Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 44 Issue: 6 Pages: 1658-1661 DOI: 10.1109/TMAG.2007.916368 Published: JUN 2008</p> <p>Times Cited: 4</p>	0.83294	3	2	0.27765	0.41647

6	<p>Compact modeling and fast simulation of on-chip interconnect lines, Author(s): Ioan, D (Ioan, D); Ciuprina, G (Ciuprina, G); Radulescu, M (Radulescu, M); Seebacher, E (Seebacher, E)  Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 42 Issue: 4  Pages: 547-550 DOI: 10.1109/TMAG.2006.871466 Published: APR 2006  Times Cited: 12</p>	0.83294	4	1	0.20823	0.83294
7	<p>Use of intelligent-particle swarm optimization in electromagnetics, Author(s): Ciuprina, G (Ciuprina, G); Ioan, D (Ioan, D); Munteanu, I (Munteanu, I)  Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 38 Issue: 2  Pages: 1037-1040 Article Number: PII S0018-9464(02)02766-8 DOI: 10.1109/20.996266 Part: Part 1  Published: MAR 2002  Times Cited: 94</p>	0.83294	3		0.27765	
8	<p>Eigenvalue computation by means of a tree-cotree filtering technique, Author(s): Trapp, B (Trapp, B); Munteanu, I (Munteanu, I); Schuhmann, R (Schuhmann, R); Weiland, T (Weiland, T); Ioan, D (Ioan, D) Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 38 Issue: 2 Pages: 445-448 Article Number: PII S00189464(02)02425-1 DOI: 10.1109/20.996118 Part: Part 1  Published: MAR 2002 Times Cited: 1</p>	0.83294	5		0.16659	

9	<p>Numerical model for eddy-current testing of ferromagnetic steel parts, Author(s): Ioan, D (Ioan, D); Rebican, M (Rebican, M)  Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 38 Issue: 2  Pages: 629-632 Article Number: PII S0018-9464(02)02765-6 DOI: 10.1109/20.996164 Part: Part 1  Published: MAR 2002  Times Cited: 2</p>	0.83294	2	1	0.41647	0.83294
10	<p>FIT/PVL circuit-parameter extraction for general electromagnetic devices, Author(s): Munteanu, I (Munteanu, I); Wittig, T (Wittig, T); Weiland, T (Weiland, T); Ioan, D (Ioan, D)  Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 36 Issue: 4  Pages: 1421-1425 Part: Part 1  Published: JUL 2000  Times Cited: 6</p>	0.83294	4		0.20823	
11	<p>Hybrid and concurrent algorithms for nonlinear magnetic field problems, Author(s): Ioan, D (Ioan, D); Ciuprina, G (Ciuprina, G); Ciobotaru, C (Ciobotaru, C)  Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 36 Issue: 4  Pages: 1553-1556 Part: Part 1  Published: JUL 2000  Times Cited: 1</p>	0.83294	3	1	0.27765	0.83294
12	<p>Models for capacitive effects in iron core transformers, Author(s): Ioan, D (Ioan, D); Munteanu, I (Munteanu, I) Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 36 Issue: 4 Pages: 990-994  DOI: 10.1109/20.877608 Part: Part 1  Published: JUL 2000 Times Cited: 2</p>	0.83294	2	1	0.41647	0.83294



13	<p>Identification of the B-H curve from external measurements using complementary formulations, Author(s): Albanese, R (Albanese, R); Bossavit, A (Bossavit, A); Fresa, R (Fresa, R); Ioan, D (Ioan, D); Rubinacci, G (Rubinacci, G); Tamburrino, A (Tamburrino, A); Villone, F (Villone, F)</p> <p>Source: PHYSICA B Volume: 275 Issue: 1-3 Pages: 228-232 DOI: 10.1016/S0921-4526(99)00763-2</p> <p>Published: JAN 2000</p> <p>Times Cited: 2</p>	0.61001	7		0.08714	
14	<p>Embedded stochastic-deterministic optimization method with accuracy control, Author(s): Ioan, D (Ioan, D); Ciuprina, G (Ciuprina, G); Szigeti, A (Szigeti, A)</p> <p>Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 35 Issue: 3 Pages: 1702-1705 DOI: 10.1109/20.767353 Part: Part 1</p> <p>Published: MAY 1999</p>	0.83294	3	1	0.27765	0.83294
15	<p>Parameter extraction for microwave devices based on 4SID techniques, Author(s): Munteanu, I (Munteanu, I); Ioan, D (Ioan, D)</p> <p>Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 35 Issue: 3 Pages: 1781-1784 DOI: 10.1109/20.767376 Part: Part 1</p> <p>Published: MAY 1999</p> <p>Times Cited: 1</p>	0.83294	2		0.41647	
16	<p>Some properties of the non-homogeneous anisotropic Perfectly Matched Layer, Author(s): Munteanu, I (Munteanu, I); Ioan, D (Ioan, D)</p> <p>Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 34 Issue: 5 Pages: 2692-2695 DOI: 10.1109/20.717624 Part: Part 1</p> <p>Published: SEP 1998</p>	0.83294	2		0.41647	

17	<p>Adjoint field technique applied in optimal design of a nonlinear inductor, Author(s): Ioan, D (Ioan, D); Munteanu, I (Munteanu, I); Ciuprina, G (Ciuprina, G)  Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 34 Issue: 5  Pages: 2849-2852 DOI: 10.1109/20.717663 Part: Part 1  Published: SEP 1998 Times Cited: 9</p>	0.83294	3	1	0.27765	0.83294
18	<p>Use of stochastic algorithms for distributed architectures in the optimization of electromagnetic devices, Author(s): Ioan, D (Ioan, D); Ciuprina, G (Ciuprina, G); Dumitrescu, C (Dumitrescu, C)  Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 34 Issue: 5  Pages: 3000-3003 DOI: 10.1109/20.717701 Part: Part 1  Published: SEP 1998  Times Cited: 4</p>	0.83294	3	1	0.27765	0.83294
19	<p>The best approximation of the field effects in electric circuit coupled problems, Author(s): Ioan, D (Ioan, D); Munteanu, I (Munteanu, I); Constantin, CG (Constantin, CG)  Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 34 Issue: 5  Pages: 3210-3213 DOI: 10.1109/20.717753 Part: Part 1  Published: SEP 1998  Times Cited: 9</p>	0.83294	4	1	0.20823	0.83294

20	An object oriented data structure for field analysis, Author(s): Popescu, M (Popescu, M); Munteanu, I (Munteanu, I); Constantin, CG (Constantin, CG); Ioan, D (Ioan, D) Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 34 Issue: 5 Pages: 3403-3406 DOI: 10.1109/20.717801 Part: Part 1 Published: SEP 1998 Times Cited: 2	0.83294	4	0.20823	
21	Quasi-stationary magnetic field computation in hysteretic media, Author(s): Ionita, V (Ionita, V); CranganuCretu, B (CranganuCretu, B); Ioan, D (Ioan, D) Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 32 Issue: 3 Pages: 1128-1131 DOI: 10.1109/20.497441 Published: MAY 1996 Times Cited: 9	0.83294	3	0.27765	
<b>TOTAL</b>				<b>5.92</b>	<b>7.91</b>

minimal I1 >= 4 P >= 2

Nr publicatiei care citeaza	Ref bibliografica a publicatiei k care citeaza	s_k	sum s_k	n_i	1/n_i sum s_k
94	Use of intelligent-particle swarm optimization in electromagnetics Author(s): Ciuprina, G (Ciuprina, G); Ioan, D (Ioan, D); Munteanu, I (Munteanu, I) Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 38 Issue: 2 Pages: 1037-1040 Article Number: PII S0018-9464(02)02766-8 DOI: 10.1109/20.996266 Part: Part 1 Published: MAR 2002 Times Cited: 94		64.53483	3	21.51161

1	<p>The role of crossover operator in the genetic optimization of magnetic models Author(s): Gwizdalla, TM (Gwizdalla, Tomasz M.) Source: APPLIED MATHEMATICS AND COMPUTATION Volume: 217 Issue: 22 Pages: 9368-9379 DOI: 10.1016/j.amc.2011.04.025 Published: JUL 15 2011</p>	0.60559
2	<p>Hierarchical Deployment Optimization for Wireless Sensor Networks Author(s): Wang, X (Wang, Xue)<sup>1</sup>; Wang, S (Wang, Sheng)<sup>1</sup> Source: IEEE TRANSACTIONS ON MOBILE COMPUTING Volume: 10 Issue: 7 Pages: 1028-1041 DOI: 10.1109/TMC.2010.216 Published: JUL 2011</p>	4.21502
3	<p>Gaussian Artificial Bee Colony Algorithm Approach Applied to Loney's Solenoid Benchmark Problem Author(s): Coelho, LD (Coelho, Leandro dos Santos)<sup>2</sup>; Alotto, P (Alotto, Piergiorgio)<sup>1</sup> Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 47 Issue: 5 Pages: 1326-1329 DO: 10.1109/TMAG.2010.2087317 Published: MAY 2011</p>	0.83294
4	<p>Fuzzified Particle Swarm Optimization Algorithm for Multi-area Security Constrained Economic Dispatch Author(s): Somasundaram, P (Somasundaram, P.)<sup>1</sup>; Swaroopan, NMJ (Swaroopan, N. M. Jothi)<sup>2</sup> Source: ELECTRIC POWER COMPONENTS AND SYSTEMS Volume: 39 Issue: 10 Pages: 979-990 DOI: 10.1080/15325008.2011.552094 Published: 2011</p>	0.36993

5	<p>PSOLVER: A new hybrid particle swarm optimization algorithm for solving continuous optimization problems Author(s): Kayhan, AH (Kayhan, Ali Haydar)1; Ceylan, H (Ceylan, Huseyin)1; Ayvaz, MT (Ayvaz, M. Tamer)1; Gurarlan, G (Gurarlan, Gurhan)1  Source: EXPERT SYSTEMS WITH APPLICATIONS Volume: 37 Issue: 10 Pages: 6798-6808  DOI: 10.1016/j.eswa.2010.03.046 Published: OCT 2010</p>	1.02625
6	<p>Modified tabu search approach for variable selection in quantitative structure-activity relationship studies of toxicity of aromatic compounds Author(s): Shen, Q (Shen, Qi)1; Shi, WM (Shi, Wei-Min)1; Kong, W (Kong, Wei)1  Source: ARTIFICIAL INTELLIGENCE IN MEDICINE Volume: 49 Issue: 1 Pages: 61-66  DOI: 10.1016/j.artmed.2010.01.004 Published: MAY 2010</p>	1.13166
7	<p>Quantum-Inspired Particle Swarm Optimization for Valve-Point Economic Load Dispatch Author(s): Meng, K (Meng, Ke)1; Wang, HG (Wang, Hong Gang)2; Dong, ZY (Dong, ZhaoYang)1; Wong, KP (Wong, Kit Po)1,3  Source: IEEE TRANSACTIONS ON POWER SYSTEMS Volume: 25 Issue: 1 Pages: 215-222 DOI: 10.1109/TPWRS.2009.2030359  Published: FEB 2010</p>	1.87351
8	<p>Distributed Energy Optimization for Target Tracking in Wireless Sensor Networks Author(s): Wang, X (Wang, Xue)1; Ma, JJ (Ma, Junjie)1; Wang, S (Wang, Sheng)1; Bi, DW (Bi, Daowei)1  Source: IEEE TRANSACTIONS ON MOBILE COMPUTING Volume: 9 Issue: 1 Pages: 73-86 DOI: 10.1109/TMC.2009.99  Published: JAN 2010</p>	4.21502

9	<p>Adaptive Particle Swarm Optimization  Author(s): Zhan, ZH (Zhan, Zhi-Hui)<sup>1</sup>; Zhang, J (Zhang, Jun)<sup>1</sup>; Li, Y (Li, Yun)<sup>2,3</sup>; Chung, HSH (Chung, Henry Shu-Hung)<sup>4</sup>  Source: IEEE TRANSACTIONS ON SYSTEMS MAN AND CYBERNETICS PART B-CYBERNETICS  Volume: 39 Issue: 6 Pages: 1362-1381 DOI: 10.1109/TSMCB.2009.2015956 Published: DEC 2009</p>	2.44820
10	<p>Parallel energy-efficient coverage optimization with maximum entropy clustering in wireless sensor networks  Author(s): Wang, X (Wang, Xue)<sup>1</sup>; Ma, JJ (Ma, Junjie)<sup>1</sup>; Wang, S (Wang, Sheng)<sup>1</sup>  Source: JOURNAL OF PARALLEL AND DISTRIBUTED COMPUTING  Volume: 69 Issue: 10 Pages: 838-847 DOI: 10.1016/j.jpdc.2009.04.012 Published: OCT 2009</p>	0.82238
11	<p>Asynchronous parallelization of particle swarm optimization through digital pheromone sharing, Author(s): Kalivarapu, VK (Kalivarapu, Vijay K.)<sup>1</sup>; Winer, EH (Winer, Eliot H.)<sup>1</sup>  Source: STRUCTURAL AND MULTIDISCIPLINARY OPTIMIZATION  Volume: 39 Issue: 3 Pages: 263-281 DOI: 10.1007/s00158-008-0324-6 Published: SEP 2009</p>	1.72452
12	<p>Training ANFIS as an identifier with intelligent hybrid stable learning algorithm based on particle swarm optimization and extended Kalman filter  Author(s): Shoorehdeli, MA (Shoorehdeli, Mahdi Aliyari)<sup>1</sup>; Teshnehlab, M (Teshnehlab, Mohammad)<sup>1</sup>; Sedigh, AK (Sedigh, Ali Khaki)<sup>1</sup>  Source: FUZZY SETS AND SYSTEMS  Volume: 160 Issue: 7 Pages: 922-948 DOI: 10.1016/j.fss.2008.09.011 Published: APR 1 2009</p>	1.04973



13	<p>Detecting particle swarm optimization  Author(s): Zhang, YN (Zhang, Ying-Nan)2;  Teng, HF (Teng, Hong-Fei)1,2  Source: CONCURRENCY AND COMPUTATION-  PRACTICE &amp; EXPERIENCE Volume: 21 Issue: 4  Pages: 449-473 DOI: 10.1002/cpe.1347  Published: MAR 25 2009</p>	0.77104
14	<p>Electromagnetic Optimization Using a Cultural  Self-Organizing Migrating Algorithm Approach  Based on Normative Knowledge Author(s):  Coelho, LD (Coelho, Leandro dos Santos)2;  Alotto, P (Alotto, Piergiorgio)1   Source: IEEE TRANSACTIONS ON MAGNETICS  Volume: 45 Issue: 3 Pages: 1446-1449 DOI:  10.1109/TMAG.2009.2012668 Published:  MAR 2009</p>	0.83294
15	<p>Tribes Optimization Algorithm Applied to the  Loney's Solenoid Author(s): Coelho, LD  (Coelho, Leandro Dos Santos)2; Alotto, P  (Alotto, Piergiorgio)1   Source: IEEE TRANSACTIONS ON MAGNETICS  Volume: 45 Issue: 3 Pages: 1526-1529 DOI:  10.1109/TMAG.2009.2012733 Published:  MAR 2009</p>	0.83294
16	<p>Identification using ANFIS with intelligent  hybrid stable learning algorithm approaches  and stability analysis of training methods  Author(s): Shoorehdeli, MA (Shoorehdeli,  Mahdi Aliyari)1; Teshnehlab, M (Teshnehlab,  Mohammad)1; Sedigh, AK (Sedigh, Ali Khaki)1;  Khanesar, MA (Khanesar, M. Ahmadi)1   Source: APPLIED SOFT COMPUTING Volume: 9  Issue: 2 Pages: 833-850 DOI:  10.1016/j.asoc.2008.11.001 Published: MAR  2009</p>	1.11208

17	<p>Identification using ANFIS with intelligent hybrid stable learning algorithm approaches  Author(s): Shoorehdeli, MA (Shoorehdeli, Mahdi Aliyari)<sup>1</sup>; Teshnehlab, M (Teshnehlab, Mohammad)<sup>1</sup>; Sedigh, AK (Sedigh, Ali Khaki)<sup>1</sup></p> <p>Source: NEURAL COMPUTING &amp; APPLICATIONS Volume: 18 Issue: 2 Pages: 157-174 DOI: 10.1007/s00521-007-0168-9  Published: FEB 2009</p>	0.37650
18	<p>Particle swarm optimization combined with normative knowledge applied to Loney's solenoid design  Author(s): Coelho, LD (Coelho, Leandro dos Santos)<sup>2</sup>; Alotto, P (Alotto, Piergiorgio)<sup>1</sup></p> <p>Source: COMPEL-THE INTERNATIONAL JOURNAL FOR COMPUTATION AND MATHEMATICS IN ELECTRICAL AND ELECTRONIC ENGINEERING Volume: 28 Issue: 5 Pages: 1155-1161 DOI: 10.1108/03321640910969412  Published: 2009</p>	0.38902
19	<p>Design of a single-feed dual-band dual-polarized printed microstrip antenna using a Boolean particle swarm optimization  Author(s): Afshinmanesh, F (Afshinmanesh, Farzaneh)<sup>1,2,3</sup>; Marandi, A (Marandi, Alireza)<sup>1,2,3</sup>; Shahabadi, M (Shahabadi, Mahmoud)<sup>1</sup></p> <p>Source: IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION Volume: 56 Issue: 7 Pages: 1845-1852 DOI: 10.1109/TAP.2008.924684  Published: JUL 2008</p>	0.83294
20	<p>Maximum Likelihood DOA Estimation in Unknown Colored Noise Fields  Author(s): Li, MH (Li, Minghui)<sup>1</sup>; Lu, YL (Lu, Yilong)<sup>2</sup></p> <p>Source: IEEE TRANSACTIONS ON AEROSPACE AND ELECTRONIC SYSTEMS Volume: 44 Issue: 3 Pages: 1079-1090 DOI: 10.1109/TAES.2008.4655365  Published: JUL 2008</p>	2.21236



21	<p>An improved particle swarm optimization algorithm mimicking territorial dispute between groups for multimodal function optimization problems Author(s): Seo, JH (Seo, Jang-Ho)1; Im, CH (Im, Chang-Hwan)2; Kwak, SY (Kwak, Sang-Yeop)1; Lee, CG (Lee, Cheol-Gyun)3; Jung, HK (Jung, Hyun-Kyo)1  Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 44 Issue: 6 Pages: 1046-1049 DOI: 10.1109/TMAG.2007.914855 Published: JUN 2008</p>	0.83294
22	<p>Loney's solenoid design using an artificial immune network with local search based on the simplex method Author(s): Coelho, LD (Coelho, Leandro dos Santos)2; Alotto, P (Alotto, Piergiorgio)1  Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 44 Issue: 6 Pages: 1070-1073 DOI: 10.1109/TMAG.2007.916034 Published: JUN 2008</p>	0.83294
23	<p>Differentiated Meta-PSO Methods for Array Optimization Author(s): Selleri, S (Selleri, Stefano)1; Mussetta, M (Mussetta, Marco)2; Pirinoli, P (Pirinoli, Paola)3; Zich, RE (Zich, Riccardo E.)2; Matekovits, L (Matekovits, Ladislau)3  Source: IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION Volume: 56 Issue: 1 Pages: 67-75 DOI: 10.1109/TAP.2007.912942 Published: JAN 2008</p>	2.46075
24	<p>Improved particle swarm optimization algorithms for electromagnetic optimization Author(s): Mussetta, M (Mussetta, Marco)1; Selleri, S (Selleri, Stefano)2; Pirinoli, P (Pirinoli, Paola)3; Zich, RE (Zich, Riccardo E.)1; Matekovits, L (Matekovits, Ladislau)3  Source: JOURNAL OF INTELLIGENT &amp; FUZZY SYSTEMS Volume: 19 Issue: 1 Pages: 75-84 Published: 2008</p>	0.43743

25	<p>Novel Gaussian quantum-behaved particle swarm optimiser applied to electromagnetic design Author(s): Coelho, LS (Coelho, L. S.) Source: IET SCIENCE MEASUREMENT &amp; TECHNOLOGY Volume: 1 Issue: 5 Pages: 290-294 DOI: 10.1049/iet-smt:20060124 Published: SEP 2007</p>	0.57518
26	<p>Particle-swarm optimization in antenna design: Optimization of log-periodic dipole arrays Author(s): Pantoja, MF (Fernandez Pantoja, M.); Bretones, AR (Rubio Bretones, A.); Ruiz, FG (Garcia Ruiz, F.); Garcia, SG (Garcia, S. G.); Martin, RG (Gomez Martin, R.) Source: IEEE ANTENNAS AND PROPAGATION MAGAZINE Volume: 49 Issue: 4 Pages: 34-47 DOI: 10.1109/MAP.2007.4385594 Published: AUG 2007</p>	1.33890
27	<p>Distributed particle swarm optimization and simulated annealing for energy-efficient coverage in wireless sensor networks Author(s): Wang, X (Wang, Xue); Ma, JJ (Ma, Jun-Jie); Wang, S (Wang, Sheng); Bi, DW (Bi, Dao-Wei) Source: SENSORS Volume: 7 Issue: 5 Pages: 628-648 DOI: 10.3390/s7050628 Published: MAY 2007</p>	1.15561
28	<p>An improved co-evolutionary particle swarm optimization for wireless sensor networks with dynamic deployment Author(s): Wang, X (Wang, Xue); Wang, S (Wang, Sheng); Ma, JJ (Ma, Jun-Jie) Source: SENSORS Volume: 7 Issue: 3 Pages: 354-370 DOI: 10.3390/s7030354 Published: MAR 2007</p>	1.15561
290	<p>Physical theory for particle swarm optimization Author(s): Mikki, SM (Mikki, S. M.); Kishk, AA (Kishk, A. A.) Source: PROGRESS IN ELECTROMAGNETICS RESEARCH-PIER Volume: 75 Pages: 171-207 DOI: 10.2528/PIER07051502 Published: 2007</p>	1.76109

30	<p>A novel hysteretic model for magnetorheological fluid dampers and parameter identification using particle swarm optimization Author(s): Kwok, NM (Kwok, N. M.); Ha, QP (Ha, Q. P.); Nguyen, TH (Nguyen, T. H.); Li, J (Li, J.); Samali, B (Samali, B.) Source: SENSORS AND ACTUATORS A-PHYSICAL Volume: 132 Issue: 2 Pages: 441-451 DOI: 10.1016/j.sna.2006.03.015 Published: NOV 20 2006</p>	1.50543
31	<p>Quantum particle swarm optimization for electromagnetics Author(s): Mikki, SM (Mikki, Said M.); Kishk, AA (Kishk, Ahmed A.) Source: IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION Volume: 54 Issue: 10 Pages: 2764-2775 DOI: 10.1109/TAP.2006.882165 Published: OCT 2006</p>	2.46075
32	<p>Identification of visco-elastic models for rocks using genetic programming coupled with the modified particle swarm optimization algorithm Author(s): Feng, XT (Feng, XT); Chen, BR (Chen, BR); Yang, CX (Yang, CX); Zhou, H (Zhou, H); Ding, XL (Ding, XL) Source: INTERNATIONAL JOURNAL OF ROCK MECHANICS AND MINING SCIENCES Volume: 43 Issue: 5 Pages: 789-801 DOI: 10.1016/j.ijrmms.2005.12.010 Published: JUL 2006</p>	3.21053

33	<p>New wide-aperture-dimension formula obtained by using a particle swarm optimization for optimum gain pyramidal horns (0) Save to: more options</p> <p>New wide-aperture-dimension formula obtained by using a particle swarm optimization for optimum gain pyramidal horns Author(s): Akdagli, A (Akdagli, A); Guney, K (Guney, K) Source: MICROWAVE AND OPTICAL TECHNOLOGY LETTERS Volume: 48 Issue: 6 Pages: 1201-1205 DOI: 10.1002/mop.21580 Published: JUN 2006</p>	0.55637
34	<p>Stability analysis of the particle dynamics in particle swarm optimizer Author(s): Kadiramanathan, V (Kadiramanathan, V); Selvarajah, K (Selvarajah, K); Fleming, PJ (Fleming, PJ) Source: IEEE TRANSACTIONS ON EVOLUTIONARY COMPUTATION Volume: 10 Issue: 3 Pages: 245-255 DOI: 10.1109/TEVC.2005.857077 Published: JUN 2006</p>	2.98368



35	<p>Constricted local-neighborhood particle swarm optimization with passive congregation applied in reactive power and voltage control (0) Save to: more options</p> <p>Constricted local-neighborhood particle swarm optimization with passive congregation applied in reactive power and voltage control Author(s): Vlachogiannis, JG (Vlachogiannis, JG) Source: ELECTRIC POWER COMPONENTS AND SYSTEMS Volume: 34 Issue: 5 Pages: 509-520 DOI: 10.1080/15325000500360801 Published: MAY 2006</p>	0.36993
36	<p>Maximum loadability of power systems using hybrid particle swarm optimization Author(s): El-Dib, AA (El-Dib, AA); Youssef, HKM (Youssef, HKM); El-Metwally, MM (El-Metwally, MM); Osman, Z (Osman, Z) Source: ELECTRIC POWER SYSTEMS RESEARCH Volume: 76 Issue: 6-7 Pages: 485-492 DOI: 10.1016/j.epsr.2005.05.011 Published: APR 2006</p>	1.13365
37	<p>A particle swarm optimization method with enhanced global search ability for design optimizations of electromagnetic devices Author(s): Ho, SL (Ho, SL); Yang, SY (Yang, SY); Ni, GZ (Ni, GZ); Wong, HC (Wong, HC) Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 42 Issue: 4 Pages: 1107-1110 DOI: 10.1109/TMAG.2006.871426 Published: APR 2006</p>	0.83294

38	<p>Some insight over new variations of the particle swarm optimization method  Author(s): Selleri, S (Selleri, Stefano); Mussetta, M (Mussetta, Marco); Pirinoli, P (Pirinoli, Paola); Zich, RE (Zich, Riccardo E.); Matekovits, L (Matekovits, Ladislau)  Source: IEEE ANTENNAS AND WIRELESS PROPAGATION LETTERS Volume: 5 Pages: 235-238 DOI: 10.1109/LAWP.2006.874071  Published: 2006</p>	2.01024
39	<p>Determining generator contributions to transmission system using parallel vector evaluated particle swarm optimization  Author(s): Vlachogiannis, JG (Vlachogiannis, JG); Lee, KY (Lee, KY)  Source: IEEE TRANSACTIONS ON POWER SYSTEMS Volume: 20 Issue: 4 Pages: 1765-1774 DOI: 10.1109/TPWRS.2005.857014  Published: NOV 2005</p>	1.87351
40	<p>Efficiency-constrained particle swarm optimization of a modified Bernstein polynomial for conformal array excitation amplitude synthesis  Author(s): Boeringer, DW (Boeringer, DW); Werner, DH (Werner, DH)  Source: IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION Volume: 53 Issue: 8 Pages: 2662-2673 DOI: 10.1109/TAP.2005.851783 Part: Part 2  Published: AUG 2005</p>	2.46075
41	<p>A particle swarm optimization-based method for multiobjective design optimizations  Author(s): Ho, SL (Ho, SL); Yang, SY (Yang, SY); Ni, GZ (Ni, GZ); Lo, EWC (Lo, EWC); Wong, HC (Wong, HC)  Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 41 Issue: 5 Pages: 1756-1759 DOI: 10.1109/TMAG.2005.846033  Published: MAY 2005</p>	0.83294

42	<p>Inversion of MLP neural networks for direct solution of inverse problems Author(s): Cherubini, D (Cherubini, D); Fanni, A (Fanni, A); Montisci, A (Montisci, A); Testoni, P (Testoni, P)</p> <p>Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 41 Issue: 5 Pages: 1784-1787 DOI: 10.1109/TMAG.2005.845987 Published: MAY 2005</p>	0.83294
43	<p>A particle swarm optimization for economic dispatch with nonsmooth cost functions Author(s): Park, JB (Park, JB); Lee, KS (Lee, KS); Shin, JR (Shin, JR); Lee, KY (Lee, KY)</p> <p>Source: IEEE TRANSACTIONS ON POWER SYSTEMS Volume: 20 Issue: 1 Pages: 34-42 DOI: 10.1109/TPWRS.2004.831275 Published: FEB 2005</p>	1.87351
44	<p>A fast algorithm for inversion of MLP networks in design problems Author(s): Cherubini, D (Cherubini, D); Fanni, A (Fanni, A); Montisci, A (Montisci, A); Testoni, P (Testoni, P)</p> <p>Source: COMPEL-THE INTERNATIONAL JOURNAL FOR COMPUTATION AND MATHEMATICS IN ELECTRICAL AND ELECTRONIC ENGINEERING Volume: 24 Issue: 3 Pages: 906-920 DOI: 10.1108/03321640510598229 Published: 2005</p>	0.38902
45	<p>Self-organizing hierarchical particle swarm optimizer with time-varying acceleration coefficients Author(s): Ratnaweera, A (Ratnaweera, A); Halgamuge, SK (Halgamuge, SK); Watson, HC (Watson, HC)</p> <p>Source: IEEE TRANSACTIONS ON EVOLUTIONARY COMPUTATION Volume: 8 Issue: 3 Pages: 240-255 DOI: 10.1109/tvec.2004.826071 Published: JUN 2004</p>	2.98368

<p>Nature-inspired microfluidic propulsion using magnetic actuation,  Author(s): Khaderi, SN (Khaderi, S. N.); Baltussen, MGHM (Baltussen, M. G. H. M.); Anderson, PD (Anderson, P. D.); Ioan, D (Ioan, D.); den Toonder, JMJ (den Toonder, J. M. J.); Onck, PR (Onck, P. R.)  Source: PHYSICAL REVIEW E Volume: 79 Issue: 4 Article Number: 046304 DOI: 10.1103/PhysRevE.79.046304 Published: APR 2009  Times Cited: 19 (from Web of Science)</p>			43.56749	6	7.261248
1	<p>A continuum model for flow induced by metachronal coordination between beating cilia, Author(s): Hussong, J (Hussong, Jeanette)1; Breugem, WP (Breugem, Wim-Paul)1; Westerweel, J (Westerweel, Jerry)1  Source: JOURNAL OF FLUID MECHANICS  Volume: 684 Pages: 137-162 DOI: 10.1017/jfm.2011.282 Published: OCT 2011</p>	2.64775			
2	<p>Artificial Cilia: Generation of Magnetic Actuators in Microfluidic Systems, Author(s): Belardi, J (Belardi, Jacob)1; Schorr, N (Schorr, Nicolas)1; Prucker, O (Prucker, Oswald)1; Ruhe, J (Ruehe, Juergen)1  Source: ADVANCED FUNCTIONAL MATERIALS  Volume: 21 Issue: 17 Pages: 3314-3320  DOI: 10.1002/adfm.201100787 Published: SEP 9 2011</p>	9.20659			
3	<p>Measurement of fluid flow generated by artificial cilia, Author(s): Kokot, G (Kokot, Gasper)1; Vilfan, M (Vilfan, Mojca)1; Osterman, N (Osterman, Natan)1; Vilfan, A (Vilfan, Andrej)1; Kavcic, B (Kavcic, Blaz)2; Poberaj, I (Poberaj, Igor)3; Babic, D (Babic, Dusan)3  Source: BIOMICROFLUIDICS Volume: 5 Issue: 3 Article Number: 034103 DOI: 10.1063/1.3608139 Published: SEP 2011</p>	1.39036			



4	<p>A Novel Swimming Microrobot Based on Artificial Cilia for Biomedical Applications, Author(s): Ghanbari, A (Ghanbari, Ali)1; Bahrami, M (Bahrami, Mohsen)1  Source: JOURNAL OF INTELLIGENT &amp; ROBOTIC SYSTEMS Volume: 63 Issue: 3-4 Pages: 399-416 DOI: 10.1007/s10846-010-9516-6  Published: SEP 2011</p>	0.45049
5	<p>Methodology for artificial microswimming using magnetic actuation, Author(s): Ghanbari, A (Ghanbari, A.)1; Bahrami, M (Bahrami, M.)1; Nobari, MRH (Nobari, M. R. H.)1  Source: PHYSICAL REVIEW E Volume: 83 Issue: 4 Article Number: 046301 DOI: 10.1103/PhysRevE.83.046301 Part: Part 2  Published: APR 1 2011</p>	1.43073
6	<p>Bio-inspired Design of Submerged Hydrogel-Actuated Polymer Microstructures Operating in Response to pH, Author(s): Zarzar, LD (Zarzar, Lauren D.)1; Kim, P (Kim, Philseok)1; Aizenberg, J (Aizenberg, Joanna)1  Source: ADVANCED MATERIALS Volume: 23 Issue: 12 Pages: 1442-1446 DOI: 10.1002/adma.201004231 Published: MAR 25 2011</p>	11.27246
7	<p>Magnetically-actuated artificial cilia for microfluidic propulsion, Author(s): Khaderi, SN (Khaderi, S. N.)1; Craus, CB (Craus, C. B.)2; Hussong, J (Hussong, J.)3; Schorr, N (Schorr, N.)4; Belardi, J (Belardi, J.)4; Westerweel, J (Westerweel, J.)3; Prucker, O (Prucker, O.)4; Ruhe, J (Ruehe, J.)4; den Toonder, JMJ (den Toonder, J. M. J.)5; Onck, PR (Onck, P. R.)1  Source: LAB ON A CHIP Volume: 11 Issue: 12 Pages: 2002-2010 DOI: 10.1039/c0lc00411a  Published: 2011</p>	5.36527

8	<p>Experimental investigation of the flow induced by artificial cilia, Author(s): Hussong, J (Hussong, J.)1; Schorr, N (Schorr, N.)2; Belardi, J (Belardi, J.)2; Prucker, O (Prucker, O.)2; Ruhe, J (Ruehe, J.)2; Westerweel, J (Westerweel, J.)1  Source: LAB ON A CHIP Volume: 11 Issue: 12  Pages: 2017-2022 DOI: 10.1039/c0lc00722f  Published: 2011</p>	5.36527						
9	<p>Generation of paramagnetic hybrid inorganic/organic thin films, Author(s): Bhushan, A (Bhushan, Abhinav)1; Han, HL (Han, Huilan)1; Sutherland, A (Sutherland, Alex)2; Boehme, S (Boehme, Stefanie)3; Yaghmaie, F (Yaghmaie, Frank)4; Davis, CE (Davis, Cristina E.)1  Source: APPLIED ORGANOMETALLIC CHEMISTRY Volume: 24 Issue: 7 Pages: 530-532 DOI: 10.1002/aoc.1653 Published: JUL 2010</p>	1.07331						
10	<p>Micro-fluidic actuation using magnetic artificial cilia, Author(s): Fahrni, F (Fahrni, Francis)1,2; Prins, MWJ (Prins, Menno W. J.)1,3; van IJendoorn, LJ (van IJendoorn, Leo J.)1  Source: LAB ON A CHIP Volume: 9 Issue: 23  Pages: 3413-3421 DOI: 10.1039/b908578e  Published: 2009</p>	5.36527						
<p>Parametric models based on the adjoint field technique for RF passive integrated components, Author(s): Ioan, D (Ioan, Daniel)1; Ciuprina, G (Ciuprina, Gabriela)1; Schilders, WHA (Schilders, W. H. A.)2  Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 44 Issue: 6  Pages: 1658-1661 DOI: 10.1109/TMAG.2007.916368 Published: JUN 2008  Times Cited: 4</p>			3.11456	3	1.0381862			
1	<p>Computation of Second Order Capacitance Sensitivity Using Adjoint Method in Finite Element Modeling, Author(s): Ren, ZX (Ren, Zhuoxiang)1; Qu, H (Qu, Hui)2; Xu, XY (Xu, Xiaoyu)3  Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 48 Issue: 2 Pages: 231-234 DOI: 10.1109/TMAG.2011.2172194 Published: FEB 2012</p>	0.83294						

2	<p>Exploiting Parallelism for Improved Automation of Multidimensional Model Order Reduction, Author(s): Villena, JF (Villena, Jorge Fernandez)1; Silveira, LM (Silveira, Luis Miguel)1,2  Source: IEEE TRANSACTIONS ON COMPUTER-AIDED DESIGN OF INTEGRATED CIRCUITS AND SYSTEMS Volume: 31 Issue: 1 Pages: 37-49  DOI: 10.1109/TCAD.2011.2167510 Published: JAN 2012</p>	1.14081			
3	<p>Multi-Dimensional Automatic Sampling Schemes for Multi-Point Modeling Methodologies, Author(s): Villena, JF (Villena, Jorge Fernandez)1; Silveira, LM (Silveira, Luis Miguel)1,2  Source: IEEE TRANSACTIONS ON COMPUTER-AIDED DESIGN OF INTEGRATED CIRCUITS AND SYSTEMS Volume: 30 Issue: 8 Pages: 1141-1151  DOI: 10.1109/TCAD.2011.2158721 Published: AUG 2011</p>	1.14081			
<p>Compact modeling and fast simulation of on-chip interconnect lines  Author(s): Ioan, D (Ioan, D); Ciuprina, G (Ciuprina, G); Radulescu, M (Radulescu, M); Seebacher, E (Seebacher, E)  Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 42 Issue: 4 Pages: 547-550  DOI: 10.1109/TMAG.2006.871466 Published: APR 2006  Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 44 Issue: 6 Pages: 1658-1661  DOI: 10.1109/TMAG.2007.916368 Published: JUN 2008  Times Cited: 4</p>			2.65155	4	0.6628878
1	<p>IIR approximation of FIR filters via discrete-time vector fitting Author(s): Wong, N (Wong, Ngai)1; Lei, CU (Lei, Chi-Un)1  Source: IEEE TRANSACTIONS ON SIGNAL PROCESSING Volume: 56 Issue: 3 Pages: 1296-1302  DOI: 10.1109/TSP.2007.908935 Published: MAR 2008</p>	2.65155			
<p>Quasi-stationary magnetic field computation in hysteretic media  Author(s): Ionita, V (Ionita, V); CranganuCretu, B (CranganuCretu, B); Ioan, D (Ioan, D)  Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 32 Issue: 3 Pages: 1128-1131  DOI: 10.1109/20.497441 Published: MAY 1996</p>			3.75220	3	1.2507339

1	<p>Inclusion of a stress-dependent Preisach model in 2D FE calculations, Author(s): Benabou, A (Benabou, A); Vandenbossche, L (Vandenbossche, L); Gyselinck, J (Gyselinck, J); Clenet, S (Clenet, S); Dupre, L (Dupre, L); Dular, P (Dular, P)</p> <p>Source: COMPEL-THE INTERNATIONAL JOURNAL FOR COMPUTATION AND MATHEMATICS IN ELECTRICAL AND ELECTRONIC ENGINEERING Volume: 25 Issue: 1 Pages: 81-90 DOI: 10.1108/03321640610634353 Published: 2006</p>	0.38902
2	<p>Modelling of a hysteresis motor using the Jiles-Atherton model Author(s): Benabou, A (Benabou, A); Bouaziz, L (Bouaziz, L); Clenet, S (Clenet, S)</p> <p>Source: EUROPEAN PHYSICAL JOURNAL-APPLIED PHYSICS Volume: 29 Issue: 3 Pages: 259-265 DOI: 10.1051/epjap:2004224 Published: MAR 2005</p>	0.65328
3	<p>Comparison of the Preisach and Jiles-Atherton models to take hysteresis phenomenon into account in finite element analysis Author(s): Benabou, A (Benabou, A); Clenet, S (Clenet, S); Piriou, F (Piriou, F)</p> <p>Source: COMPEL-THE INTERNATIONAL JOURNAL FOR COMPUTATION AND MATHEMATICS IN ELECTRICAL AND ELECTRONIC ENGINEERING Volume: 23 Issue: 3 Pages: 825-834 DOI: 10.1108/03321640410510794 Published: 2004</p>	0.38902
4	<p>Comparison of Preisach and Jiles-Atherton models to take into account hysteresis phenomenon for finite element analysis Author(s): Benabou, A (Benabou, A); Clenet, S (Clenet, S); Piriou, F (Piriou, F)</p> <p>Source: JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 261 Issue: 1-2 Pages: 139-160 DOI: 10.1016/S0304-8853(02)01463-4 Published: APR 2003</p>	1.09892

5	<p>An inverse Jiles-Atherton model to take into account hysteresis in time-stepping finite-element calculations Author(s): Sadowski, N (Sadowski, N); Batistela, NJ (Batistela, NJ); Bastos, JPA (Bastos, JPA); Lajoie-Mazenc, M (Lajoie-Mazenc, M)</p> <p>Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 38 Issue: 2 Pages: 797-800 Article Number: PII S0018-9464(02)00953-6 DOI: 10.1109/20.996206 Part: Part 1 Published: MAR 2002</p>	0.83294			
6	<p>Determination of losses' local distribution for transformer optimal designing Author(s): Clenet, S (Clenet, S); Cros, J (Cros, J); Piriou, F (Piriou, F); Viarouge, P (Viarouge, P); Lefebvre, LP (Lefebvre, LP)</p> <p>Source: COMPEL-THE INTERNATIONAL JOURNAL FOR COMPUTATION AND MATHEMATICS IN ELECTRICAL AND ELECTRONIC ENGINEERING Volume: 20 Issue: 1 Pages: 187-204 DOI: 10.1108/03321640110359912 Published: 2001</p>	0.38902			
<p>Adjoint field technique applied in optimal design of a nonlinear inductor Author(s): Ioan, D (Ioan, D); Munteanu, I (Munteanu, I); Ciuprina, G (Ciuprina, G)</p> <p>Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 34 Issue: 5 Pages: 2849-2852 DOI: 10.1109/20.717663 Part: Part 1 Published: SEP 1998</p>			3.72076	3	1.2402546
1	<p>Using automatic code differentiation for optimization Author(s): Fischer, V (Fischer, V); Gerbaud, L (Gerbaud, L); Wurtz, F (Wurtz, F)</p> <p>Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 41 Issue: 5 Pages: 1812-1815 DOI: 10.1109/TMAG.2005.845487 Published: MAY 2005</p>	0.83294			
2	<p>Reducing sensitivity analysis time-cost of compound model Author(s): Delinchant, B (Delinchant, B); Wurtz, F (Wurtz, F); Atienza, E (Atienza, E)</p> <p>Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 40 Issue: 2 Pages: 1216-1219 DOI: 10.1109/TMAG.2004.824907 Part: Part 2 Published: MAR 2004</p>	0.83294			

3	<p>Automating the design of low frequency electromagnetic devices - a sensitive issue  Author(s): Lowther, DA (Lowther, DA)  Source: COMPEL-THE INTERNATIONAL JOURNAL FOR COMPUTATION AND MATHEMATICS IN ELECTRICAL AND ELECTRONIC ENGINEERING Volume: 22  Issue: 3 Pages: 630-642 DOI: 10.1108/03321640310475083 Published: 2003</p>	0.38902						
4	<p>Automatic design of impedance in shell-form power transformer Author(s): Cui, X (Cui, X); Zhang, GQ (Zhang, GQ)  Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 36 Issue: 4 Pages: 1822-1825 Part: Part 1 Published: JUL 2000</p>	0.83294						
5	<p>Sensitivity analysis and automatic design of voltage ratio in an optical instrument voltage transformer Author(s): Cui, X (Cui, X); Zhang, GQ (Zhang, GQ)  Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 35 Issue: 3 Pages: 1769-1772 DOI: 10.1109/20.767373 Part: Part 1 Published: MAY 1999</p>	0.83294						
<p>Title: The best approximation of the field effects in electric circuit coupled problems  Author(s): Ioan D; Munteanu I; Constantin CG  Conference: 11th Conference on the Computation of Electromagnetic Fields (COMPUMAG) Location: RIO JANEIRO, BRAZIL Date: NOV 01-03, 1997  Sponsor(s): IEEE; Univ Sao Paulo, Escola Politecn; Univ Fed Minas Gerais; Univ Fed Santa Catarina; Univ Santa Cecilia; Int Comp Soc; Soc Brasileira Elecromagnet  Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 34 Issue: 5 Pages: 3210-3213 DOI: 10.1109/20.717753 Part: Part 1 Published: SEP 1998  Times Cited: 9 (from Web of Science)</p>			3.77447	3	1.258158			

1	<p>The benefits of nodal and edge elements coupling for discretizing global constraints in dual magnetodynamic formulations Author(s): Suuriniemi, S (Suuriniemi, Saku); Kangas, J (Kangas, Jari); Kettunen, L (Kettunen, Lauri)</p> <p>Source: COMPEL-THE INTERNATIONAL JOURNAL FOR COMPUTATION AND MATHEMATICS IN ELECTRICAL AND ELECTRONIC ENGINEERING Volume: 26 Issue: 3 Pages: 899-909 DOI: 10.1108/03321640710751307 Published: 2007</p>	0.38902
2	<p>The benefits of nodal and edge elements coupling for discretizing global constraints in dual magnetodynamic formulations Author(s): Dular, P (Dular, P)</p> <p>Source: JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS Volume: 168 Issue: 1-2 Special Issue: SI Pages: 165-178 DOI: 10.1016/j.cam.2003.06.009 Published: JUL 1 2004</p>	0.88665
3	<p>Fields and circuits in computational electromagnetism Author(s): Kettunen, L (Kettunen, L)</p> <p>Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 37 Issue: 5 Pages: 3393-3396 DOI: 10.1109/20.952621 Part: Part 1 Published: SEP 2001</p>	0.83294
4	<p>Current distribution in massive conductors Author(s): Kaisjoki, J (Kaisjoki, J); Tarhasaari, T (Tarhasaari, T); Kettunen, L (Kettunen, L)</p> <p>Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 36 Issue: 4 Pages: 1440-1443 Part: Part 1 Published: JUL 2000</p>	0.83294
5	<p>Coupling circuit constraints into boundary element methods Author(s): Davey, KR (Davey, KR); Klimpke, B (Klimpke, B)</p> <p>Source: IEEE TRANSACTIONS ON MAGNETICS Volume: 36 Issue: 4 Pages: 1444-1447 Part: Part 1 Published: JUL 2000</p>	0.83294

<p>Title: Models for integrated components coupled with their EM environment  Author(s): Ioan Daniel; Schilders Wil; Ciuprina Gabriela; et al.  Source: COMPEL-THE INTERNATIONAL JOURNAL FOR COMPUTATION AND MATHEMATICS IN ELECTRICAL AND ELECTRONIC ENGINEERING  Volume: 27 Issue: 4 Pages: 820-829 DOI: 10.1108/03321640810878225 Published: 2008  Times Cited: 7 (from Web of Science)</p>		0.87733	5	0.1754658
1	<p>An existence result for elliptic partial differential-algebraic equations arising in semiconductor modeling Author(s): Ali, G (Ali, Giuseppe)1; Rotundo, N (Rotundo, Nella)2  Source: NONLINEAR ANALYSIS-THEORY METHODS &amp; APPLICATIONS Volume: 72  Issue: 12 Pages: 4666-4681 DOI: 10.1016/j.na.2010.02.046 Published: JUN 15 2010</p>	0.87733		

**TOTAL C = 34.4**  
minimal C >= 5

7 mai 2012