PUBLISHED PAPERS 1992 - 2005
Prof. dr. ing. Daniel IOAN

<u>1978-1991</u>

1. P. Notingher, **Daniel Ioan.** *A Numerical Method for Computing the Electrical Stress in Dielectrics.* **Revue Roum. Sci. Tech. - Electrotechn. et Energ.,** vol. 23, nr. 3, pp. 363-372, 1978.

1. **Daniel. Ioan,** Al. Morega. *Instalatie de laborator pentru studiul solidificarii controlate a materialelor metalice.* **E.E.A. ELECTROTEHNICA**, vol. 37, nr. 1, pp. 28-37, 1989.

2. **Daniel Ioan,** S. Kratochvil. *FAP Field Analysis Program*. **Buletinul Stiintic al Institului Politehnic Cluj Napoca**, vol. 3, nr. 32, pp. 24-29, 1989.

3. **Daniel. Ioan,** C. Stancu, Al. Morega. *LOCAP Program pentru Analiza Circuitelor Logice.* **In CAS 87** Conferinta anuala de semiconductoare, pp. 241-244. Sinaia, Romania, oct. 7-10 1987.

4. **Daniel Ioan**, S.O. Kratochvil. *PREFAP - Preprocesor Interactiv pentru Descrierea Problemelor Bidimensionale de Camp Electromagnetic.* **In Conferinta nationala de electronica, telecomunicatii, automatica si calculatoare**, pp. 190-195. Bucuresti, Romania, dec. 7-9 1988.

5. **Daniel. Ioan**, S.O. Kratochvil. *FAP pachet de programe pentru analiza campurilor bidimensionale*. In **Al XIII-lea Simpozion de Informatica si Conducere**, p. X.4. Cluj-Napoca, Romania, iun. 7-9 1989.

6. R. Radulet, Al. Timotin, S.E. Ghetaru, **D. Ioan** si altii. *Thesaurus CEI rationnel de l'electricite.* Commission Electrotechnique Internationale, **CEI,** Geneve, Suisse, 1986.

7. 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.

8. **D. Ioan**. *Electrotehnica si electronica industriala*, vol. 1. **I.P.B**., Bucuresti, Romania, 1983.

9. **D. Ioan.** *Electrotehnica si electronica industriala,* vol. 2. **I.P.B**., Bucuresti, Romania, 1984.

10. **D. Ioan.** *Electrotehnica si electronica industriala*, vol. 3. **I.P.B.,** Bucuresti, Romania, 1985.

11. **Daniel Ioan.** *Metode pentru calculul campului electromagnetic.* Institutul Politehnic Bucuresti, **IPB,** 1988.

12. M. Preda, P. Cristea, F. Manea (coordonatori), **D. Ioan,** altii. *Bazele electrotehnicii - Probleme.* Editura Didactica si Pedagogica, Bucuresti, **EDP**, 1980.

13. S. Antoniu, I. Dorobantu, **D. Ioan**, altii. *Bazele electrotehnicii - Indrumar de laborator .* **I.P.B**., Bucuresti, 1978.

14. N. Cristea, S. Antoniu, L. Constantinescu, F. Hantila, **D. Ioan,** altii. *Culegere de probleme de electrotehnica.* **I.P.B**., Bucuresti, 1979.

15. F.M.G. Tomescu, R. Marculescu, **D. Ioan,** A. Tomescu. *Electrotehnica si Electronica Indrumar de laborator .* **I.P.B.,** Bucuresti, 1983.

16. **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.

1992

17. **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.

18. 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.

19. 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, Insbruch.

20. T.V. Duggan (ed.), **D. Ioan**, altii. *Industrial links, computers and designs.* **Computational Mechanics Publications**, Southampton, Boston, 1992.

21. F.M.G. Tomescu, **D. Ioan**. *PS - CAEE Prospectus 1992 - 1993*, Editura Clubului **TEMPUS,** Bucuresti, 1992.

1993

22. F. Hănțilă, **D. Ioan** - *Integral Method for Finding Time Constants in Electromagnetic Time Diffusion*- **Revue Roum. Sci. Tech.** - Electrotechn et Energ., vol. 38, nr. 1, pp. 71-80, Bucharest, 1993.

23. Al. Morega, **D. Ioan** - *A Romanian Experience in Computer-Aided Electromagnetic Education*, **Journal on Electromagnetic Education** - special issue, Vol.8, No.1, pp. 125 - 137, Winter 1993

24. 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.

25. 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.

26. 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.

27. **D. Ioan**, Michele Patrissi, F. M. G. Tomescu şi 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.

28. 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.

29. 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.

30. 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

31. 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.

32. **D. Ioan**, M. Bodea. *The Romanian VLSI Design Postgraduate School: Breakthrough.* **EUROCHIP Workshop** on VLSI Design Training, pp. 386-391. Toledo, Spain, 1993

33. **D. Ioan** (ed.), M. Niţescu, F. Constantinescu. *Teoria avansată a circuitelor electrice.* Editura Clubului **TEMPUS**, Bucureşti, România, 1993.

34. **D. Ioan** (ed.), M. Iordache. *Analiza asistată de calculator a circuitelor electrice neliniare.* Editura Clubului **TEMPUS,** Bucureşti, România, 1993.

35. **D. Ioan** (ed.), H. Giuroiu, L. Jurubiţa. *Elemente de tehnici de proiectare VLSI.* Editura Clubului **TEMPUS**, Bucureşti, România, 1993.

36. **D. Ioan** (ed.), R. Mărculescu. *Tehnici de bază în proiectarea pentru testabilitate.* Editura Clubului **TEMPUS,** Bucureşti, România, 1993.

37. **D. Ioan** (ed.), D.M. Farini. *Analiza asistată de calculator a circuitelor electronice. Modele ale dispozitivelor semiconductoare.* Editura Clubului **TEMPUS,** Bucureşti, România, 1993.

38. **D. Ioan** (ed.), C. Udrişte. *Minimization of function on Riemannian Manifolds for the Students of Numerical Methods in Electrical Engineering.* Editura Clubului **TEMPUS,** Bucureşti, România, 1993.

39. **D. Ioan** (ed.), F. Hănţilă. *Calculul câmpului electromagnetic cu ajutorul calculatorului.* Editura Clubului **TEMPUS,** Bucureşti, România, 1993.

40. **D. Ioan** (ed.), B. Ionescu. *Numerical Methods in Electromagnetic Field Computation.* Editura Clubului **TEMPUS,** Bucureşti, România, 1993.

41. **D. Ioan** (ed.), A. Bossavit. *Notions d'electromagnetisme en vue de la modelisation.* Editura Clubului **TEMPUS,** Bucureşti, România, 1993.

42. **D. Ioan** (ed.), F.M.G. Tomescu. *Numerical Methods in Electromagnetic Field Computation, vol. 1.* Editura Clubului **TEMPUS,** Bucureşti, România, 1993.

43. **D. Ioan** (ed.), I.F. Soran. *Analyse et calcul des systemes de commande electrique assistes par ordinateur.* Editura Clubului **TEMPUS,** Bucureşti, România, 1993.

44. **D. Ioan** (ed.), M. Ferenc. *Introducere practică în analiza numerică a câmpului electromagnetic - PE 2D.* Editura Clubului **TEMPUS,** Bucureşti, România, 1993.

45. F.M.G. Tomescu, **D. Ioan**. *PS - CAEE Prospectus 1993 - 1994*, Editura Clubului **TEMPUS,** Bucuresti, 1993.

46. **D. Ioan** (Ed). *Proceedings of International Conference on Computer Aided Engineering Education - CAEE'93*, September 22-24, 1993, Bucharest, Vol.1, Editura Clubului **TEMPUS,** Bucuresti, 1993.

47. **D. Ioan** (Ed). *Proceedings of International Conference on Computer Aided Engineering Education - CAEE'93*, September 22-24, 1993, Bucharest, Vol. 2, Editura Clubului **TEMPUS,** Bucuresti, 1993.

1994

48. F.I.Hantila, **D.C. Ioan**, N.N. Peios, J.A. Tegopoulos - *Integral Method for Computation of Eddy-Current Time Constant.* **Revue Roum. Sci. Tech**. - Electrotechn. et Energ., vol. 39, nr. 1, pp. 15-23, 1994

49. F.I. Hănţilă, **D. Ioan** - *Voltage-Current Rrelation of Circuit Elements with Field Effects*- **Revue Roum. Sci. Tech.** - Electrotechn. et Energ., vol. 39, nr. 3, pp. 405-416, 1994.

50. F.I. Hănţilă, **D. Ioan** - *Voltage-Current Rrelation of Circuit Elements with Field Effects*- The 6th International **IGTE** Symposium, pp. 41-46, Graz, Austria, sept. 1994.

1995

51. **Daniel Ioan**, R. Dogaru, A.T. Murgan. *Designing an Analog Neuro-Fuzzy Standard Cells Library for CADENCE.* 2nd **Advanced Traning Course Mixed Design of VLSI Circuits**, pp. 96-101, 29-31 May, 1995, Kracow, Poland.

52. **Daniel Ioan**, S. Popescu, T. Dogaru. *A customized VLSI Circuit for Eddy Current Testing.* 2nd **Advanced Traning Course Mixed Design of VLSI Circuits,** pp. 311-316, 29-31 May, 1995, Kracow, Poland.

53. **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

54. 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

55. **Daniel Ioan**, B. Ionescu, M. Popescu, G. Segarceanu. *Use of Computer Aided Electrical Engineering Software Packages in Postgraduate Level Education.* Proc. of 3rd International Conference on **CAEE '95,** pp. 286-291. Bratislava, sept. 13-15 1995

56. Dumitriu M., M. Piscurenciu, P.L. Mateiu şi **D. Ioan**. *Method for Solving the Laplace with Hybrid Boundary Conditions.* 3rd International Conference on **CAEE'95,** pp. 373-376. Bratislava, sept. 13-15 1995.

57. V. Ioniţă şi **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.

58. 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

59. **Daniel Ioan**, S. Popescu, S. Spanoche, C. Dan. *A Comparison between two CMOS Magnetic Sensor for ETC.* Nondestructive Testings of Materials, vol. 8, pp. 125-134. R. Collins, W.D. Dover, J.R. Bowler and K. Miya (Ed**), IOS Press, Amsterdam,** 1995, ISBN 90 5199 239 4.

60. **Daniel Ioan**, Irina Munteanu. *Metode Numerice: Aplicatii in ingineria electrica.* Universitatea "Politehnica" din Bucuresti, **IPB**, 1995. (330 pag.)

1996

61. V. Ioniţă, B. Crânganu - Creţu, **D. C. Ioan**. *Quasi-Stationary Magnetic Field Computation in Hysteretic Media.* **IEEE Trans. Magn**., vol.32, nr. 3, pp. 1128-1131, mai 1996.

62. 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

63. **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.

64. **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, **CEFC**, p. 445. Okayama, Japan, mar. 1996.

65. F. Hănțilă, I. Gheorma, E. Demeter**, D. Ioan**, C. Trâmbițas. *Electromagnetic circuit element: 3D FEM analysis.* IEEE CEFC Proceedings of the Seventh Biennial IEEE Conference on Electromagnetic Field Computation, **CEFC,** p. 372. Okayama, Japan, mar. 1996.

66. 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, **CEFC**, p. 281. Okayama, Japan, mar. 1996.

67. **D. C. Ioan,** T. Dogaru, S. Popescu. *An Array of CMOS Magnetic Sensors for Eddy Current Testing.* The European Design and Test Conference. **EDTC**, Paris, France, mar. 11-14 1996.

68. 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.

69. Bogdan Vasiliu, **Daniel Ioan**, Irina Munteanu. *Optimization of electromagnetic devices on a message--passing system.* 7th International **IGTE** Symposium, pp. 165-170. Graz, Austria, sept. 1996.

70. 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.

71. Bogdan Vasiliu, **Daniel Ioan**, Irina Munteanu. *Optimization of electromagnetic devices by simulated annealing in distributed architectures.* First Romanian Japanese Seminar on Electromagnetics and Mechanichs - **RJJSAEM'96,** Neptun, sept. 23--26 1996.

72. **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 **RJJSAEM'96,** Neptun, sept. 23--26 1996.

73. 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 **RJJSAEM'96,** Neptun, sept. 23--26 1996.

<u>1997</u>

74. **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**, pp. 141-142. Rio de Janeiro, Brazil, nov. 1997.

75. **Daniel Ioan**, Irina Munteanu, Cristian-George Constantin. *The best approximation of the field effects in electric circuits coupled problems.* Proc. 11th **COMPUMAG** Conf., pp. 747--748. Rio de Janeiro, Brazil, nov. 1997.

76. 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**, pp. 573--574. Rio de Janeiro, Brazil, nov. 1997.

77. 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**, pp. 9-10. Rio de Janeiro, Brazil, nov. 1997.

78. 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,** pp. 189--190. Rio de Janeiro, Brazil, nov. 1997.

79. **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.

80. **Daniel Ioan**, Ioan-Florea Hănțilă, 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.

81. **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.

82. **Daniel Ioan.** *Stdiul actual al cercetarilor in domeniul defectoscopiei electromagnetice nedistructive.* **Calitate '97**, U.P.B., Bucuresti, oct. 9-10, 1997

83. . Iordache M., **D. Ioan,** M. Rebican. *Spice models for FLUXSET Sensor.* **Electronic Workshop**, U.T. Cluj-Napoca, oct. 17-18 1997.

1998

84. **D. Ioan**, G. Ciuprina, C. Dumitrescu - *Use of Stochastic Algorithms for Distributed Architectures in the Optimization of Electromagnetic Devices***, IEEE Trans. Magn.** vol. 34, nr. 5, sept. 1998, pp. 3000-3003.

85. **Daniel Ioan**, Irina Munteanu şi Gabriela Ciuprina - *Adjoint field technique applied in optimal design of a nonlinear inductor*, **IEEE Trans. Magn**. vol. 34, nr. 5, sept. 1998, pp. 2849-2852.

86. **Daniel Ioan**, Irina Munteanu şi Cristian-George Constantin - *The best approximation of the field effects in electric circuits coupled problems*, **IEEE Trans. Magn.** vol. 34, nr. 5, sept. 1998, pp. 3210-3213.

87. Irina Munteanu şi **Daniel Ioan** - *Some properties of the non-homogeneous anisotropic perfectly matched layer*, **IEEE Trans. Magn.** vol. 34, nr. 5, sept. 1998, pp. 2692-2695.

88. Mihai Popescu, Irina Munteanu, Cristian-George Constantin şi **Daniel Ioan** - *An object oriented data structure for field analysis*, **IEEE Trans. Magn**. vol. 34, nr. 5, sept. 1998, pp. 3403-3406.

89. Aurelian Visan, **Daniel Ioan**, N. Ionescu. *Methodology of Computer Simulation of Electrical Discharge Machining Process with Shape Copying.* Scientific Bulletin - "Politehnica" University of Bucharest, vol. 60, nr. 1-2, pp. 203-212, 1998. Seria D - Mechanical Engineering.

90. **Daniel Ioan.** Book reviw on "Computational electromagnetism" by Alain Bossavit, Academic Press, 1998. **Rev. Roum. Sci. Tehn. Electrotechn. Energ.**, vol. 43, nr. 2, pp. 277-279, 1998

91. **Daniel Ioan**, K. Nagaya. *Forward by guest editors of Applied Electromagnetics and Mechanics* (RJJSAEM 96). **Rev. Roum. Sci. Tehn. Electrotechn. Energ.**, vol. 43, nr. 3, pp. 283-284, 1998

92. Gabriel Atanasiu, P. Brad, **D. Ioan,** G. Ciuprina. *Air gap magnetic permeance estimation for a switched reluctance motor.* **Rev. Roum. Sci. Tehn. Electrotechn. Energ.**, vol. 43, nr. 3, pp. 385-390, 1998

93. Bogdan Vasiliu, **D. Ioan,** Irina Munteanu. *Distributed- architecture simulated annealing for optimization of electromagnetic devices.* **Rev. Roum. Sci. Tehn. Electrotechn. Energ.**, vol. 43, nr. 3, pp. 409-416, 1998

94. Irina Munteanu, **Daniel Ioan**. *Parameter extraction for microwave devices based on 4SID techniques.* Proceedings of IEEE Conference on Electromagnetic Field Computation -- CE**FC'98**, p. 355. Tucson, Arizona, U.S.A., iun. 1--3 1998.

95. **D. Ioan**, G. Ciuprina, A. Szigeti. *Embedded stochastic-deterministic optimization method with accuracycontrol.* Proceedings of IEEE Conference on Electromagnetic Field Computation -- **CEFC'98**, p. 294. Tucson, Arizona, U.S.A., iun. 1--3 1998.

96. 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.

97. **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.

98. **Daniel Ioan**, Irina Munteanu, Corneliu Popeea. *Models for the capacitive effects in a magnetic field sensor.* Proc. of 8th **IGTE** Symposium on Numerical Field Calculation in Electrical Engineering, pp. 525--530. sept. 1998.

99. **D. Ioan**, M. Rebican, A. Gasparics. *B-H characteristic extraction using devices with non-uniform magnetic field.* Proceedings of the 8th International **IGTE** Symposium on Numerical Field Calculation in Electrical Engineering, pp. 414--419. Graz, Austria, sept. 1998.

100. 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.

101. **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.

102. 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.

103. 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.

104. F. Hănţilă, 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.

105. 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.

106. 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.

107. S.D. Grigorescu, **D. Ioan**, C. Cepişcă. *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.

108. 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, **ATEE 98**, Bucharest, Romania, dec. 1998.

109. **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.

110. Anton Duca, **D. Ioan**. *Neural network applied to solve the inverse problem in non-destructive electromagnetic testing.* Proceedings of the Symposium on Advanced Topics in Electrical Engineering **ATEE 98,** Bucharest, Romania, dec. 1998.

111. **D. Ioan**, M. Rebican, A. Gasparics. *B-H characteristic extraction using devices with non-uniform magnetic field.* Abstracts of the 8th International **IGTE** Symposium on Numerical Field Calculation in Electrical Engineering (IGTW '98), Graz, Austria, p. 97, sept. 1998.

112. **Daniel Ioan**, Irina Munteanu, Corneliu Popeea. *Models for the capacitive effects in a magnetic field sensor.* Abstracts of the 8th International **IGTE** Symposium on Numerical Field Calculation in Electrical Engineering (IGTW '98), Graz, Austria, p. 123, sept. 1998.

113. **Daniel Ioan.** *Calcule deInalta Performanta aplicate la rezolvarea problemalor stiintifice si inginerest (CoLaborator = HPC + CSE + HPM).* Simposionul Rolul invatanamtului si al cercetarii stiintifice universitare in dezvoltarea Societatii Informationale, **U.P.B.,** Bucuresti, apr. 2-3 1998.

114. **D. Ioan**, I.F. Hănţilă, M. Rebican şi 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.

115. **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.

116. **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.

117. **Daniel Ioan,** Irina Munteanu, Bogdan Ionescu, Mihai Popescu, Radu Popa, Mihai Lăzărescu, Gabriela Ciuprina. *Metode numerice în ingineria electrică.* **MATRIX ROM,** București, România, 1998. ISBN 973-9390-04-8.

1999

118. Irina Munteanu, **Daniel Ioan**. *Parameter extraction for microwave devices based on 4SID tehniques.* **IEEE Trans. Magn**. vol. 35, nr. 3, pp. 1781-1784, mai 1999.

119. **D. Ioan**, G. Ciuprina, Andras Szigeti. *Embledded stochastic- deterministic optimization method with accuracy control.* **IEEE Trans. Magn**. vol. 35, nr. 3, pp. 1702-1705, mai 1999.

120. **Daniel Ioan**, Irina Munteanu, Corneliu Popeea. *Capacitive effect models for a magnetic field sensor.* **COMPEL, Int. J. Comput. Math. Electr. Electron. Eng.,** vol. 18, nr. 3, pp. 515-527, 1999.

121. **Daniel Ioan**, Mihai Rebican, A. Gasparics. *B-H characteristic extraction using devices with non-uniform field.* **COMPEL, Int. J. Comput. Math. Electr. Electron. Eng**., vol. 18, nr. 3, pp. 469-481, Emerald, 1999.

122. Aurelian Visan, **D.Ioan**, N. Ionescu. *Modelarea si sinularea cu calculatorul a procesului de prelucrare prin electroeroziune cu interstitiu paralel.* Revista Tehnologii Calitate Masini Materiale - **TCMM,** vol. 33, nr. 38, pp. 253-264, 1999

123. Aurelian Visan, **D.Ioan**, N. Ionescu. *Modelarea si sinularea cu calculatorul a procesului de prelucrare prin electroeroziune cu interstitiu neparalel.* Revista Tehnologii Calitate Masini Materiale - **TCMM,** vol. 33, nr. 38, pp. 265-272, 1999

124. Aurelian Visan, D. Neagu, **D.Ioan**, V. Tache, N. Ionescu. *Stabilirea distributiei spatiale a duritatii la durificarea suprafetelor cu fascicul de electroni.* Revista Tehnologii Calitate Masini Materiale - **TCMM**, vol. 33, nr. 38, pp. 273-278, 1999

125. **Daniel Ioan,** Irina Munteanu. *Missing link rediscovered: The electromagnetic circuit element concept.* **JSAEM** Studies in Applied Electromagnetics and Machanics, vol. 8, pp. 302-320, oct. 1999

126. Mihai Popescu, Irina Munteanu, **Daniel Ioan.** *A distributed implementation of an object oriented data structure for field analysis.* **JSAEM** Studies in Applied Electromagnetics and Machanics, vol. 8, pp. 125-132, oct. 1999

127. Irina Munteanu, **Daniel Ioan,** Radu Marinescu - Frasinei. *A distributed FVTD method for microwavw devices analysis.* **JSAEM** Studies in Applied Electromagnetics and Machanics, vol. 8, pp. 125-132, oct. 1999

128. Florea Hantila, M. Vasiliu, **Daniel Ioan**, F. Enache, B. Cranganu. *BEM for nonlinear thermal problems***. JSAEM** Studies in Applied Electromagnetics and Machanics, vol. 8, pp. 193-196, oct. 1999

129. M. Rebican, **Daniel Ioan.** *Models for the fluxset sensor.* **JSAEM** Studies in Applied Electromagnetics and Machanics, vol. 8, pp. 321-330, oct. 1999

130. Gabriela Ciuprina, **Daniel Ioan.** *Distributed evolutionary strategies for electromagnetic devices optimization.* **JSAEM** Studies in Applied Electromagnetics and Machanics, vol. 8, pp. 386-391, oct. 1999

131. Grigorescu S. D., **Daniel Ioan**, C. Cepisca. *Sigma-delta magnetic sensor for eddy current testing.* **JSAEM** Studies in Applied Electromagnetics and Machanics, vol. 8, pp. 21-28, oct. 1999

132. Irina Munteanu, **Daniel Ioan**. *Distributed-environment finite integral method for electromagnetic devices analysis.*12th International Conference on Control Systems and Computer Science **CSCS-12,** vol. I, pp. 237--242. Bucharest, Romania, mai 26--29, 1999.

133. **Daniel Ioan**, Cătălin Dumitrescu, Suzana Stănescu. *Recent Benchmark Results for HPC Systems.*12th International Conference on Control Systems and Computer Science **CSCS-12,** vol. II, pp. 169--176. Bucharest, Romania, mai 26--29, 1999.

134. **Daniel Ioan**, Gabriela Ciuprina, Suzana Stănescu,Mihai Rebican. *HPC Techniques used in Electromagnetic Field Numerical Computation.*12th International Conference on Control Systems and Computer Science **CSCS-12,** vol. II, pp. 177--182. Bucharest, Romania, mai 26--29, 1999.

135. **Daniel Ioan,** Anton Duca. *Use of Multi-Transform-ANN to Solve Inverse ENDE Problems.* Proceedings of the 5th International Workshop on Electromagnetic Nondestructive Evaluation, **ENDE 99**, pp. 72--73. Des Moines, Iowa, USA, aug. 1--3, 1999.

136. **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.

137. **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.

138. 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.

139. **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.

140. **Daniel Ioan**, Mihai Rebican. *B-H Hysteresis Loop Extraction using Devices with Non-uniform Magnetic Field.* Conf. Record of the 12th Conf. on the Comp. of Electromagn. Fields COM**PUMAG'99,** pp. 800--801. Sapporo, Japan, oct. 1999.

141. **Daniel Ioan,** Gabriela Ciuprina. *Solution of TEAM Problem no. 25.* Proceedings of **TEAM Workshop**, pp. 244--245. Sapporo, Japan, oct. 1999.

142. 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.

143. 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.

144. 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.

145. 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, Bucuresti, Romania, oct. 21-22, 1999.

146. 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.

147. 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.

148. **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**, D. Lesselier and A. Razek (Eds), 1999.

149. K. Nagaya, **D. Ioan** (ed.). *Applied Electromagnetics and Mechanical Systems.* **JSAEM Press**, Tokyo, 1999.

150. Irina Munteanu, **Daniel Ioan.** *Utilizarea Instrumentelor Unix în ştiinţă şi Inginerie.* **MATRIX ROM,** Bucureşti, România, 1999. (257 pag.), ISBN 973 685 004 8.

2000

151. Irina Munteanu, Tilmann Wittig, Thomas Weiland şi **Daniel Ioan.** *FIT/PVL circuit-parameter extraction for general electromagnetic devices.* **IEEE Trans. Magn.** vol. 36, nr. 4, pp. 1421-1425, iul. 2000.

152. **Daniel Ioan**, Irina Munteanu. *Models for capacitive effects in iron core transformer.* **IEEE Trans. Magn.** vol. 36, nr. 4, iul. 2000, pp. 990-994.

153. **Daniel Ioan**, Gabriela Ciuprina, Cătălin Ciobotaru. *Hybrid algorithms for nonlinear equations of the magnetic field.* **IEEE Trans. Magn**. vol. 36, nr. 4, iul. 2000, pp. 1553-1556.

154. R. Albanese, A. Bossavit, R. Fresa, **D. Ioan**, G. Rubinacci, A. Tamburrino, F. Villone. *Identification of B-H curve from external measurements using complementary formulations.* **Physica B (Condensed Matter),** vol. 275, pp. 228-232, Elsevier, 2000.

155.   **Daniel Ioan,** M. Rebican, Anton Duca. *Use of Genetic Agents to Solve ENDE Inverse Problems.* The Sixth International Workshop Elecromagnetic Nondistructive Evaluation, **ENDE**, pp. 17-18, Budapest, Hungary, iun. 2000.

156.   **Daniel Ioan,** M. Rebican, Anton Duca. *Teams of Autonomous Softwarw Agents (TASA) used in optimisation.* The Sixth International Workshop on Optimization and Inverse Problems in Electromagnetism**, OIPE,** Torino, Italy, sept. 2000.

157.   **Daniel Ioan,** Anton Duca. *Use of MTANN Systems to Solve Inverse ENDE Problems.* Electromagnetc 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.

158.   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.

159.   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.

160.   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.

161.   **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.

162.   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.

163.   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.

164.   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.

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.

166.   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.

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.

168. **Daniel Ioan**. *About the Numerical Solution of Inverse Nonlinear Magnetostatic Problems.* Proc. of 9th **IGTE** Symposium, p. 78. Graz, Austria, sept. 2000.

169. **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.

170. 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

2001

171. Irina Munteanu, Silvia Drobny, Thomas Weiland şi **Daniel Ioan**. *Triangle serch method for nonlinear electromagnetic field computation.* **COMPEL, Int. J. Comput. and Math. in Electr. and Electron. Eng.,** vol. 20, nr. 2, pp. 417-430, Emerald, 2001.

172. Irina Munteanu şi **Daniel Ioan.** *Symbolic Computation with Maple V for Undergraduate Electromagnetics.* **IEEE Transactions on Education**, vol. 44, nr. 2, pp. 217, may 2001.

173. 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.

174. **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.

175. 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, mai13-16 2001.

176. 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.

177. 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.

178. **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.

179. 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.

180.   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. Kuşadasi, Turkey, june 27-29 2001.

181.   **Daniel Ioan,** Irina Munteanu, Catalin Ciubotaru. *Numerical Analysis of a Die Press Model for Ferrite Micromachine Poler Using Software Agents.* International **AEGEAN** Conference on Electrical Machines and Power Electronics, pp. 607-612. Kuşadasi, Turkey, june 27-29 2001.

182.   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. Kuşadasi, Turkey, june 27-29 2001.

183.   **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. Bucharest, Octombrie 30-31 2001.

184.   **Daniel Ioan,** Anton Duca, M. Rebican. *Teams of Autonomous Softwarw Agents (TASA) to Solve Inverse ENDE Problems.* The Abstracts of Progress In Electromagnetics Research Symposium **(PIERS01)**, Osaka, Japan, iul. 18-22, 2001.

185.   **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 1 58603 155 4.

186.   **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 (EDS.), **Springer Verlag**, Berlin, 2001.

2002

187.   Gabriela Ciuprina, **Daniel Ioan** şi Irina Munteanu. *Use of Intelligent-Particle Swarm Optimization in Electromagnetics***. IEEE Trans. Magn**. , vol. 38, nr. 2, pp. 1037-1040, march 2002.

188.   **Daniel Ioan** şi Mihai Rebican. *Numerical Model for Eddy Currents Testing of Ferromagnetic Steel Parts.* **IEEE Trans. Magn**., vol. 38, nr. 2, pp. 1037-1040, march 2002.

189.   B.Trapp, I. Munteanu, R. Schulmann, T. Weiland şi **D. Ioan.** *Eigenvalue Computation by Meen of Tree-Cotrec Filtring Technique.* **IEEE Trans. Magn**., vol. 38, nr. 2, pp. 445-448, march 2002.

190.   Irina Munteanu, C. Ciobotaru, **D. Ioan.** *Reducing the complexity order of the algorithms for magnetic field nonlinear problems.* **COMPEL, Int. J. Comput. and Math. in Electr. and Electron. Eng**., vol. 21, nr. 2, 2002, pp. 286-295.

191.   **Daniel Ioan**, Mihai Rebican. *Extraction of B-H relation based on the inverse magnetostatic problem.* **Japan International Journal Applied Electromagnetics and Mechanics**, vol.13, no.1-4 : 329-34,.

192. **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.

193. **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.

194. 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.

195. Gabriela CIUPRINA, **Daniel Ioan**, Irina Munteanu, Mihai Rebican, Radu POPA. *Optimizarea numerica a dispozitivelor electromagnetice.* **Printech,** Bucuresti, 2002.

2003

196. **Daniel IOAN**, Gabriela CIUPRINA "*Improved Algorithms for Solving Nonlinear Equations of the Magnetic Field*", **Revue Roumanie de Sciences Techniques**, 2003;

2004

197. **Daniel Ioan,** M.Radulescu,G.Ciuprina - *Fast Extraction of Static Electric Parameters with Accuracy Control*", in Scientific Computing in Electrical Engineering (W.H.A. Schilders et al Eds), Springer, 2004, pp.248-256

198. **Daniel Ioan**, Marius Radulescu *FDTD cell homogenization based on dual FIT* - **PIERS** Abstracts - Progress in Electrical Engineering Research, March 28-31, Pisa 2004, Italy

199. **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

200. **Daniel Ioan**, Catalin Ciobotaru *Equivalent Circuits of Linear Order for Electromagnetic Field Problems* - **PIERS** Abstarcts - Progress in Electrical Engineering Research, March 28-31, Pisa 2004, Italy

201. **Daniel IOAN**, Gabriela CIUPRINA, Marius RÃDULESCU, 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

202. **Daniel Ioan,** Gabriela Ciuprina, M. Radulescu and M. Piper – *Algebraic Sparsified Partial Equivalent Circuit (ASPEEC).* Scientific Computing in Electrical Engeneering - **SCEE 2004**, Digest Book, Sept. 5-9, 2004, Capo D'Orlando Italy

203. **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.

204.   Cătălin Ciobotaru, **Daniel Ioan** *Local Adaptive Multigrid for Finite Integrals Technique*, CODESTAR Workshop at ATE**E** 2004, 25-26 nov. 2004, P.U.B.

205.   **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.

206.   **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.

207.   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.

2005

208.   **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, accepted for publication and oral plenary presentation.

209.   **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, accepted for publication and oral prezentation.

210.   **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), **Springer**, 2005, under press