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| curriculum vitae  11 |

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| Personal Information |

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| Name |  | Constantin Volosencu |
| Address |  | Str. Ranetti nr. 52 ap. 7 Timişoara |
| Phone |  | 0040.(0)724369136 |
| Fax |  | 0040.(0)256403214 |
| E-mail |  | constantin.volosencu@aut.upt.ro |

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| Nationality |  | Romanian |

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| Date of birth |  | March, 11, 1957 |

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| Professional experience |

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| **•** Period |  | 1991 - until present |
| **•** Name and address of employer |  | “Politehnica” university of Timişoara |
| **•** Activity type or activity sector |  | University education, at bachelor, master and doctorate degree |
| **•** Position |  | 1991-1994 assistant, 1995-2002 lecturer, 2003-2007 associate professor, 2008 until now professor, 2010 until now doctorate coordination |
| **•** Main activities and responsibilities |  | * Member of the Department of Automation and Applied Informatics, Facultaty of Automation and Computers, "Politehnica" University of Timisoara, Romania, European Union. * Titular of the following disciplines: 1. “Standardization and technical graphics”, “Virtual instrumentation”, bachelor 4th year, "Sincretic project" bachelor 3th year, “Fault detection and diagnosis” master 2nd year. * Knowledge on linear, non-linear and intelligent control systems, fuzzy logic, neural networks, distributed parameter systems, system identification, control of electrical drives, fault detection and diagnosis, sensor networks, virtual instrumentation. * 3 relevant contributions in the technical science domain:   -Control structures based on fuzzy logic and neural networks with application at electrical drives.  -Fault detection and diagnosis structures with application at electrical drives.  -Identification of distributed parameter systems based on sensor networks and artificial intelligence.   * Research activity on research grants obtained by competition, based on contracts, in Romania and abroad as manager and member of research teams. (according the attached publication list)   From 1982 until present participation at 52 projects, manager at 45 projects, based on contracts.  The activity in the last 5 years contains 15 projects, based on competition, 11 as manager, 3 national grants, 8 international grants.   * ***Grant manager***   -Manager of 1 CNCSIS PNII research grant in the period 2009-2011.  -Manager of 4 CNCSIS (Romanian national counsel of scientific research in the university education) research grants in the period 2004-2011 (see the list of grants).  --Manager of Leonardo da Vinci grant for student placement in Spain and England in 2005.  -Manager of Leonardo da Vinci grant for specialist exchange in the field of automatics with l’Institute de Productique. Universitatea Franche-Comte, Besancon, France, 2005.  -Socrates agreement of Politehnica University from Timisoara and Politecnico di Milano, for the years 2006-2018.  -Manager of National Instruments grants in 2005 and 2007.   * Scientific contribution   -The scientific research activity until present is concretized in: a) articles and studies published in international journals (indexed in ISI master journal list, ISI Werb of Science, INSPEC, Scopus, ACM, Compendex, DBLP, IEEEXplore, IFAC paper on-line and other data bases) and Romanian journals b) books and book chapters published in Romania and abroad, as author and editor c) papers published in proceedings of international conferences (Institute for Systems and Technologies of Information, Control and Communication, INSTICC 2007, 2008, 2009, International Academy, Research and Industry Association IARIA 2007, 2009, World Scientific and Engineering Academy and Society 2007, 2008, 2009, International Federation of Automatic Control Conference on Management and Control of Production and Logistics 2007, European Power Electronics and Drives Conference EPE 2003, International Measurement Confederation IMEKO World Congress 2000, European Control Conference ECC 1999, European Congress on Intelligent Techniques and Soft Computing EUFIT 1999, Power Electronics and Motion Control Conference Pemc 1998, IEEE Conference on Systems, Man and Cybernetics 1998) d) patents and innovations. The patents are cited: 13 in ISI Derwent Innovations Index and 16 in the universal patent data base [esp@cenet](mailto:esp@cenet) Worldwide.   * Invited professor and study visits at the following universities from Europe: l’Institute de Productique. Universitatea Franche-Comte, Besancon, France, 2003, Politecnico di Milano, Italy, 2004, Hochschule für Technik und Informatik, Bern, and L’Ecole Politechnique Federale de Lausanne, Switzarland, 2005, Delft Centre for Systems and Control, Delft University of Technology, Holland and Ghent University, Belgium, 2006, University Politehnica from Madrid, Spain, 2007. * Study visits at industrial companies, as: Siemens Wurth, Daimler-Benz Wurth, ABB Heilderberg, GET Worms/Munchen Germany in 1999, Grundfos Bjeringbro Danemark in 2001. * Developing of research and educational laboratory of Control Systems, based on national grants received from Romanian Ministry of Education and Research and international grants from National Instruments. * Assurance and perfectionce of supports for educational activities at all levels of educational process. Elaboration of 10 books, manuals and monographs. * Member of IEEE, afiliated at IEEE Control Systems Society and Computational Intelligence Society, member of Romanian Society of Automatics and Technical Informatics SRAIT, member of Romanian Society of Electrical Engineers and Automatizations SIEAR, member of WSEAS, former member of the National Commitees for Standardization for Electrical Symbols and Ultrasonic Equipments. * Member of editorial board of the following journals: Journal of Vibration Analysis, Measurement and Control, Columbia Int. Publishing, MO, USA, Editorial Review Board of Computer Science, Computer Engineering, BCIS, MIS, at Scientific Journals International SJI, ISSN 1556 – 6757, member in Authors Advisory Board lat Journal of Biochemical Technology, ISSN 0974-2328, Sevas Educational Society, editor of Journal of Computer Science and Information Technology., International Journal of Information Technology & Computer Science (IJITCS ), International Journal of Latest Trends in Computing (IJLTC), International magazine on advances in computer science and tellecomunications. * Member in scientific comitees of international conferences: Wseas Multiconference, Budapest, Hungary, September 3-5, 2009 (Power Systems, Simulation, Modelling and Optimization, Signal, Speech and Image Processing, Multimedia, Internet & Video Technologies, Distance Learning and Web Engineering, Grid Computing, Digital Libraries, Data Mining and Intelligent Information Processing. -WSEAS Multiconference, Brasov, Romania, September 24-26, 2009, Manufacturing Engineering, Quality and Production Systems, Environmental and Geological Science and Engineering, Maritime and Naval Science and Engineering. -The 2008 and 2009 International Conference on Artificial Intelligence ICAI’08, WORLDCOMP'08, ‘09, ‘10 - the 2008, 2009, 2010 World Congress in Computer Science, Computer Engineering, and Applied Computing, Las Vegas, -7th WSEAS Int. Conf. On Fuzzy Systems, Cravtat, Croaţia, 2006, -6th Int. Conf. On Recent Advances in Soft Computing, Univ. of Kent, Canterbury, U.K., 2006. -IEEE Int. Workshop on Soft Computing Applications, SOFA, Debrecen, Arad, 2005. -Conf. Int. Conference on Technical Informatics CONTI, ediţiile 2002, 2004, 2006, -IEEE Conference on Systems, Man and Cybernetics (SMC'98) Piscataway, NJ, S.U.A., 1998, -Fourth IEEE Conference on Wireless Communication and Sensor Networks WCSN-2008, December 27-29, 2008, [Indian Institute of Information Technology, Allahabad](http://www.iiita.ac.in) and [IET-DAVV, Indore](http://www.iet.dauniv.ac.in). -9th WSEAS Int. Conf. on Simulation, Modelling and Optimization, Budapesta, 3-5 sept. 2009. -2nd WSEAS Int. Conf. on Maritime and Naval Science and Engineering, Braşov, 24-26 sept. 2009. * Plenary speaker and chairman at international conferences: 9th Int. Conf. on Automation and Information (ICAI'08), Academia Romaniei, Bucureşti, 2008, ISI Web of Science, -8th Int. Conf. on Simulation, Modelling and Optimization (SMO '08), Santander, Spania, 2008. -The 8th Int. Conf.on Signal Processing. Robotics and Automation (ISPRA '09), Cambridge, U.K, Feb. 21-23, 2009. -10th Int. Conf. on Automation and Information (ICAI'09) [Prague, Czech Republic, March 23-25, 2009](http://www.wseas.org/conferences/2009/prague/icai/location.htm). -11th Int. Conf. on Automatic Control, Modelling and Simulation (ACMOS '09) [Istanbul, Turkey, June, 5-7, 2009](http://www.wseas.org/conferences/2008/istanbul/acmos/location.htm). * INTAS, Cordis and CDI evaluator. * Coordinating of professional and scientific structures: international programs Socrates/Erasmus and Leonardo da Vinci, coordinating cooperation of Department of Automatics and Applied Informatics from “Politehnica” University of Timisoara with National Instruments, Debrecen. * Prooves of international recognition: papers cited in ISI Web of Science, INSPEC, Compendex, Scopus, DBLP, AMC, Docis, IEEE Xplore, Google Scholar, patents cited ISI Derwent Innovations Index and esp@cenet Worldwide, references in Scopus Web and ISI Web Plus. ISI h = 3 and 10 for all citations, Scopus h = 7, Google Scholar h=10. * Distinctions: Paper Curiac, D.I.; Banias, O.; Dragan, F.; Volosencu, C.; Dranga, O. - Malicious Node Detection in Wireless Sensor Networks Using an Autoregression Technique, The 3rd International Conference on Networking and Services ICNS 2007, June 19-25, 2007 - Athens, Greece - Best paper award. |
| **• P**eriod |  | 1982-1990 |
| **• N**ame and address of employer |  | “Electrotimis” Entreprise Timisoara, Romania |
| **• A**ctivity type or activity sector |  | Research and design in the field of automatics, control of electrical drives |
| **• P**osition |  | * Engineer in research and design |
| **• M**ain activities and responsibilities |  | * Activity of research, developing and design of automatic equipments, electronic circuits, power converters for machine tools, spooling machines, power ultrasonic equipments (cleaning and welding). * Activity of standardization, quality control, service. * Author of over 30 scientific papers and 27 patents andf 75 innovations. * Homologation of 21 prototypes and 8 equipments in series zero. * Experience in electrical engineering, electrical drives, analogue and digital electronic circuits, electronic measurements, modeling and simulation, CAD. * Participation at international technical fairs. * Member of the sub-comisison of acoustic of Romanian Academy. |
| Education and Formation |

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| • Period |  | 1976 – 1981 |
| • Name and type of educational institution in which the professional education was done |  | The Politehnical Institute “Traian Vuia”, Faculty of Electrotechnic, Timisoara, Romania |
| • Domain of study |  | Section of automation and computers |
| • Type of calification |  | Engineer in automation and computers |
| • Level of classification of education form |  | University |

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| • Period |  | 1993 - 2000 |
| • Name and type of educational institution in which the professional education was done |  | “Politehnica” University of Timisoara, Romania |
| • Domain of study |  | Control systems |
| • Type of calification |  | Doctorate |
| • Level of classification of education form |  | Post-university |

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| • Period |  | 2004-2007 |
| • Name and type of educational institution in which the professional education was done |  | World Scientific and Engineering Academy and Society, Greece |
| • Domain of study |  | Computational intelligence |
| • Type of calification |  | Postdoctorate |
| • Level of classification of education form |  | Post-university |

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| Abilities and competences  achieved in the entire life, but not recognized by a certificate or a diploma |
| maternal language |  | Romanian |
| foreign known languages |
|  |  | English |
| **•** ability to read |  | Very good |
| **•** ability to write |  | Good |
| **•** ability to speak |  | Good |
|  |  | Franch |
| **•** ability to read |  | Very good |
| **•** ability to write |  | Good |
| **•** ability to speak |  | Good |

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| Social Abilities and competences |  | * Abilty to communicate with persons from different social groups (intelectuals, workers, students) achieved in professional experience. * Ability for public communication, achieved in professional experience. * Experience in presentation of idees, papers, results of scientifc researches, achieved in international conferences. * Tolerance to collegues, students and leaders idees, achieved in professional experience. * Ability to work in a team, achieved in reearch, design and education. * Responsive at new idees and concepts, prooved by results in scientifc and technical researches, materialized in scientific papers, patents and research projects. * Dinamysm, flexible thinking, achieved in professional experience. * Ability to work in stress conditions. * Proactive attitude. * Capacity for analysis and sinthesis. * Constructive reactivity to idee disputes, achieved in professional experience. * Sociable. |

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| Managerial abilities and competences |  | * Ability to coordinate, achieved as manager of research grants. * Practice experience in coordination of the activities with students, engineers, workers, achieved in professional experience in educational labs and industrial workshops. * Administration experience in organizing research projects, mobilities and investments. * Balance in judgement of limit situations. * Ability as a planner. * Experience in report, popularization, as a conference and meeting organizer, in relations with partners. * Capacity of mediation. * Capacity of project manager. * Firmness and fast reaction in critical situations. * Sence of responsabilty. |

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| **t**echnical abilities and competences |  | * Technical competences in the following domains: automation, electronics, electrotehnics, general mechanics, achived in theoretical an practical professional experience. * Abilities in computer usage: modeling, simulation, scientific computation, programming softwares (Matlab, Simulink, LabView, Orcad, Autocad, Pspice), document editing, graphical presentations, reports, (Microsoft Office), achieved in professional experience. * Competence in photography, achieved as personal interest. |

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| **o**ther abilities and competences |  | -Competence in the field of classical and rock music, achieved in personal interest. Author of a book in the field of classic rock music.  -Competence in karate, achieved in personal training interest.  -Competence in playing guitar, achieved in personal training interest. |

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| driving licence |  | * Driving licence for auto B, C, E cathegories. * Licence for pilot in sport aviation. |

**LIST OF PUBLICATIONS**

**Professor doctor engineer Constantin Voloşencu**

**Doctorat thesis**

Constantin Voloşencu – Control structures based on fuzzy logic and neural networks with application at electrical drives, *Doctorate thesis*, “Politehnica” University of Timişoara, Romania, 2000.

**Books**

**Voloşencu, C.** - *Standardizare şi metodologii de proiectare în automatizări industriale*, Editura MatrixRom, Bucureşti, 1999, ISBN 973-685-034-X.

**Voloşencu, C.** - *Sisteme fuzzy şi neuronale*, Editura Politehnica, Timişoara, 2007, ISBN 978-973-625-468-0.

**Voloşencu, C. -** *Sisteme de conducere a acţionărilor electrice*, Editura Politehnica, Timişoara, 2007, ISBN 978-973-625-418-9.

**Voloşencu, C.** - *Implementarea în industrie a ultrasunetelor de putere*, Editura MatrixRom, Bucureşti, 2002, ISBN 973-685-401-9.

**Voloşencu, C.** - *Reglare fuzzy şi neuronală, cu simulări în Matlab*, Editura Eurobit, Timişoara, 1997, ISBN 973-9201-72-5.

**Voloşencu, C.**- *Analiza circuitelor cu programul Spice*, Editura Electronistul, Bucureşti, 1994.

**Voloşencu, C.,** *Aplicaţii practice de automatizare în domeniul ultrasunetelor de putere*, Editura MatrixRom Bucureşti, 2003, ISBN 973-685-604-6.

**Voloşencu, C.,** *Proiectarea generatoarelor electronice de ultrasunete de putere*, Editura MatrixRom Bucureşti, 2003, ISBN 973-685-583-X.

**Voloşencu, C.** - *Îndrumător pentru proiectarea instalaţiilor de automatizare*, Universitatea Tehnică Timişoara, 1995.

Book editor:

1. Voloşencu, C. editor, Cutting Edge Research in New Technologies, Intech, Rijeka, Croatia, 2012, ISBN 978-953-51-0463-6.

2. Voloşencu, C. editor, New Technologies - Trends, Innovations and Research, Intech, Rijeka, Croatia, 2012, ISBN 978-953-51-0480-3.

3. Voloşencu, C. editor, Cutting Edge Research in Technologies, Intech, Rijeka, Croatia, 2015, ISBN 978-953-51-2186-2, DOI: 10.5772/59460.

*Book chapters*:

Volosencu, C., Tuning Fuzzy PID Controllers, Theory, Tuning and Application to Frontier Areas, edited by Rames C. Panda, ISBN 978-953-307-927-1, InTech, February 2, 2012

Voloşencu, C., Applying the Technology of Wireless Sensor Network in Environment Monitoring, pag. 97-116, Cutting Edge Research in New Technologies, Edited by Voloşencu C., Intech, Rijeka, Croatia, 2012, ISBN 978-953-51-0463-6.

Voloşencu, C., Identification of Distributed Parameter Systems, Based on Sensor Networks, pag. 369-394, Introduction to PID Controllers, Theory, Tuning and Application to Frontier Areas, Edited by Rames C. Panda, Intech, Rijeka, Croatia, 2010, ISBN 978-953-307-927-1.

Voloşencu, C., Methods for parameter estimation and frequency control of piezoelectric transducers, Automation & Control - Theory and Practice, pag. 115-136, Edited by A. D. Rodić, In-Tech, Vienna, Rijeka, 2009, ISBN 78-953-307-039-1.

## Other scientific publications

Methods for pentru determinarea gradului de curăţire la echipamente cu ultrasunete, *Standard românesc, CEI 887*, Editura Tehnică, Bucureşti, 1993.

**Papers in international journals**

*ISI journals*

Curiac, Daniel-Ioan; **Volosencu, Constantin**, Imparting protean behavior to mobile robots accomplishing patrolling tasks in the presence of adversaries, *Bioinspiration & Biometics*, Vol: 10, Issue: 5, Pages: 56017-56017, Oct. 2015.

Curiac, Daniel-Ioan, Volosencu Constantin, Path Planning Algorithm based on Arnold Cat Map for Surveillance UAVs, *Defence Science Journal*, Vol. 65, No. 6, Nov. 2015, pp. 483-488, DOI : 10.14429/dsj.65.8483.

Curiac, Daniel-Ioan; **Volosencu, Constantin**, A 2D chaotic path planning for mobile robots accomplishing boundary surveillance missions in adversarial conditions, *Communications in Nonlinear Science and Numerical Simulation*, Vol: 19, Issue: 10, Pages: 3617-3627, Oct. 2014.

**Volosencu, C.,** Curiac D.I., Efficiency improvements in multi-sensor wireless network based estimation algorithms for distributed parameter systems with application at the heat transfer, *EURASIP Journal on Advances in Signal Processing* 2013, 2013:4.

Curiac, D.I., **Volosencu, C**., Chaotic Trajectory Design for Monitoring an Arbitrary Number of Specified Locations Using Points of Interest, Mathematical Problems in Engineering, Vol. 2012 (2012), Art. ID 940276.

Curiac, D.I., **Voloşencu, C**., Ensemble based sensing anomaly detection in wireless sensor networks, *Expert Systems with Applications*, Vol. 39, Issue 10, Aug. 2012, Pages 9087-9096, Elsevier, doi 10.1016/j.eswa.2012.02.036.

*Other data basis*

**Voloşencu, C., Algorithms for estimation in distributed parameter systems based on sensor networks and ANFIS, WSEAS Transactions on Systems, Volume 9, Issue 3, March 2010, pag. 283-294, ISSN: 1109-2777.**

Curiac, D.I., Baniaş, O., Voloşencu, C., **Implementing time series identification methodology using wireless sensor networks,** WSEAS Transactions on Computers, Volume 9 Issue 3, March 2010, pag. 309-318, ISSN: 1109-2750.

Plăstoi, M., Baniaş, O., Curiac, D.I., Voloşencu, C., Tudoroiu, R., Doboli, A., Integrated System for Malicious Node Discoverz and Self-destruction in Wireless Sensor Networks, International Journal on Advances in Networks and Services, vol. 2, no. 4, 2009, pag. 241-250, ISSN 1942-2644.

Voloşencu, C., Pseudo-Equivalence of Fuzzy PID Controllers, WSEAS Transactions on Systems and Control, Issue 4, Volume 4, April 2009, ISSN 1991-6763, pag. 163-176.

Curiac, D.I., Voloşencu, C., Pescaru, D., Jurcă, L., Doboli, A., Redundancy and Its Applications in Wireless Sensor Networks : A Survey, WSEAS Transactions on Computers, Issue 4, Volume 6, April, 2009, ISSN: 1199-2760, pag. 705-716.

Voloşencu, C., Properties of Fuzzy Systems, WSEAS Transactions on Systems, Issue 2, Volume 8, Feruary, 2009, ISSN: 1109-2777, pag. 210-228.

Fuiorea, D., Gui, V., Pescaru D, Paraschiv, P., Istin, C., Curiac, D., Volosencu, C., Video-Based Wireless Sensor Networks Localization Techniques Based on Image Registration and SIFT Algorithm, WSEAS Transactions on Computers, Issue 7, Vol. 7, July 2008, pag. 990-999.

Voloşencu, C., Identification of Distributed Parameter Systems, Based on Sensor Networks and Artificial Intelligence, WSEAS Transactions on Systems, Issue 6, Vol. 7, June 2008. ISSN 1109-2777, pag. 785-801.

Voloşencu, C., Fuzzy Control of Electrical Drives, Based on Fuzzy Logic, WSEAS Transactions on Systems and Control, Issue 9, Vol. 3, Sept. 2008, pag. 809-822, ISSN 1991-8763.

Voloşencu, C., Stabilization of Fuzzy Control Systems, WSEAS Transactions on Systems and Control, Issue 10, Vol. 3. Oct. 2008, pp. 879-896, ISSN 1991-8763.

Curiac, D.I., Voloşencu, C., Doboli, A., Dranga, O., Bednarz, T. - Discovery of Malicious Nodes in Wireless Sensor Networks Using Neural Predictors, WSEAS Transactions on Computer Research, Issue 1, Volume 2, January 2007, ISSN 1991-8755, pag. 38-44.

*National Journals*

Muntean, N., Voloşencu, C., Control Systems of Water Supply with Variable Speed Drives, Buletinul Ştiintific al Universitătii Politehnica din Timişoara, Seria Automatică şi Calculatoare, Tomul 48(62), Fascicola 1-2, 2003, ISSN 1224-600X.

Voloşencu, C., Detectia şi diagnosticarea cu logică fuzzy a defectelor unui sistem de reglare a turatiei unui motor sincron cu magneti permanenti, Analele Universitătii Aurel Vlaicu, din Arad, Seria Electrică, Fascicula Electrotehnică, Electronică, Automatizări, 2004.

Voloşencu. C., Detectia şi diagnosticarea defectelor sistemelor de conducere a actionărilor electrice bazată pe logică fuzzy, Analele Universitătii Aurel Vlaicu, din Arad, Seria Electrică, Fascicula Electrotehnică, Electronică, Automatizări, 2004.

Voloşencu. C., Reglare fuzzy - O scurtă prezentare, Analele Universitătii Aurel Vlaicu, din Arad, Seria Electrică, Fascicula Electrotehnică, electronică, automatizări, 2002, pag. 162-170.

Voloşencu. C., Realizări in sistemele de conducere a actionărilor electrice, Analele Universitătii Aurel Vlaicu, din Arad, Seria Electrică, Fascicula Electrotehnică, Electronică, Automatizări, 2002, pag. 154-161.

Voloşencu, C., Fuzzy Control of Second Order Processes, *Acta Universitatis Cibiniensis*, Vol. XLIII, Technical series, E. Computer Science and Automatic Control, Sibiu, 2001.

Voloşencu, C., Bibliotecă de programe pentru retele neuronale, Analele Universitătii *Aurel* *Vlaicu* din Arad, 2000, pag. 351-354.

Voloşencu, C., Bibliotecă de programe pentru simularea sistemelor de conducere a actionărilor electrice, Analele Universitătii Aurel Vlaicu din Arad, 2000, pag. 355-358.

Voloşencu, C., Using Backpropagation in Neural Identification, Analele Universitătii din Oradea, 1999, 113-117.

Voloşencu C., Modeling and Simulation of a Speed Fuzzy Control System for a Permanent Magnet Synchronous Motor, Analele Universitătii din Oradea, 1999, 118-123.

Voloşencu, C., Consideratii privind utilizarea retelelor neuronale in identificarea sistemelor neliniare, Revista Romană de Informatică şi Automatică, vol. 9, nr. 3, Bucureşti, 1999, pag. 3-64.

Voloşencu, C., Design and Simulation of a Speed Control System for Induction Motors, *Acta* *Universitatis* *Cibiniensis*, Vol. XLI, Seria Tehnică, H. Inginerie electrică şi electronică, Sibiu, 1999, 229-233.

Voloşencu, C., Analiza stabilitătii unui sistem de reglare fuzzy a turatiei unui motor de curent continuu, Revista Romană de Informatică şi Automatică, vol. 8, nr. 4, Bucureşti, 1998, pag. 43-53.

Voloşencu, C., Robustness of the Fuzzy Control of DC Drives at Errors of the Parameter Identification, Buletinul Ştiintific al Universitătii *Politehnica* din *Timişoara*, Proceedings of the Symposium on Electronics and Telecommunications Etc.'98, Timişoara, 1998, pag. 269-272.

Voloşencu, C., A Neuro-Fuzzy Speed Controller for DC Drives, Buletinul Ştiintific al Universitătii *Politehnica* din *Timişoara*, Proceedings of the Symposium on Electronics and Telecommunications Etc.'98, Timişoara, 1998, pag. 273-276.

Voloşencu, C. - A Neuro-Fuzzy Speed Controller, Buletinul Ştiintific şi Tehnic al Universitătii Politehnica, Timişoara, Seria Automatică şi, Calculatoare, 1998, pag. 132-138.

Voloşencu, C. - A Speed Fuzzy Control System for D.C. Drives, Buletinul Ştiintific şi Tehnic al Universitătii Politehnica, Timişoara, Seria Automatică şi Calculatoare, 1998, pag. 125-131.

Voloşencu, C. - Neural Control - A Brief Survey, Buletinul Ştiintific şi Tehnic al Universitătii Tehnice Timişoara, 1996, Tom 41, Seria Automatică şi Calculatoare, pag. 69-79.

Voloşencu, C. - Neural Emulator for a DC Motor, Buletinul Ştiintific şi Tehnic al Universitătii Tehnice Timişoara, 1995, Tom 40, Seria Automatică şi Calculatoare, pag. 163-168.

Voloşencu, C. - Using Spice to Simulate an Induction Motor, Buletinul Ştiintific şi Tehnic al Universitătii Tehnice Timişoara, 1995, Tom 40, Seria Automatică şi Calculatoare, pag. 150-162.

Voloşencu, C. - Using Spice to Simulate a DC Motor Control System, Buletinul Ştiintific şi Tehnic al Universitătii Tehnice Timişoara, 1995, Tom 40, Seria Automatică şi Calculatoare, pag. 139-149.

Voloşencu C. - Using Spice to Simulate a Brushless DC Motor, Buletinul Ştiintific şi Tehnic al Universitătii Tehnice, Timişoara, 1994, pag. 171-176.

Voloşencu, C. - Using Spice to Simulate Neural Networks, Buletinul Ştiintific şi Tehnic al Universitătii Tehnice Timişoara, 1994, Tom 39, Seria Automatică şi Calculatoare, pag. 158-163.

Voloşencu, C. - Power Inverter with Piezoelectric Transducer for Ultrasonic Systems, Buletinul Ştiintific şi Tehnic al Universitătii Tehnice Timişoara, Automatică şi Calculatoare, Tomul 38, Fascicula 1-2, 1993, pag. 157-164.

Voloşencu, C. - Achievements and Prospects in High Power Ultrasonic Processes, Buletinul Ştiintific şi Tehnic al Universitătii Tehnice Timişoara, Automatică şi Calculatoare, Tomul 38, Fascicula 1-2, 1993, pag. 165-172.

Muntean, N.; Voloşencu, C. - Aparat pentru trasarea caracteristicilor de frecventă ale transductoarelor de ultrasunete, Caietul de acustică al Academiei, nr. 22, Bucureşti, 1986, pag. 141-144.

Savii, G.; Nani, V.; Nicoară, D.; Isar A.; Pop G.; Muntean, N., Voloşencu, C.. - Contributii la implementarea in industrie a ultrasunetelor de putere, Caietul de acustică al Academiei, nr. 21, Bucureşti, 1985, pag. 109-112.

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**Patents**

*ISI Derwent Innovation Index*

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Voloşencu, C. - Instalatie de actionare electrică pentru freze universale, Brevet Romania nr. 105913

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Voloşencu, C. - Metodă şi aparat pentru măsurarea tensiunii de mişcare la transductoarele magnetostrictive, Brevet Romania nr. 95536

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Timişoara

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