 Curriculum Vitae

INFORMAȚII PERSONALE

Daniel Moga

📍 Str. Observatorului, nr. 2, Cluj-Napoca, 400500, Romania

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EXPERIENȚA PROFESIONALĂ

Octombrie 2009 - prezent

Profesor universitar
Universitatea Tehnica din Cluj-Napoca, Departamentul Automatica

- Activități didactice si de cercetare
Tipul sau sectorul de activitate Educație / Ingineria sistemelor

Octombrie 2006 – Octombrie 2009

Conferențiar
Universitatea Tehnica din Cluj-Napoca, Departamentul Automatica

- Activități didactice si de cercetare

Tipul sau sectorul de activitate Educație / Ingineria sistemelor

Aprilie 1999 – Octombrie 2006

Asistent, Șef lucrări
Universitatea Tehnica din Cluj-Napoca, Departamentul Automatica

- Activități didactice si de cercetare

Tipul sau sectorul de activitate Educație / Ingineria sistemelor

Octombrie 1996 – Aprilie 1999

Asistent
Universitatea "Babes-Bolyai" Cluj-Napoca

- Activități didactice si de cercetare

Tipul sau sectorul de activitate Educație / Sisteme informaționale geografice (GIS), Sisteme de senzori

Septembrie 1995 – Octombrie 1996

Cercetător
IPA SA Cluj-Napoca, Strada Zorilor nr. 15, Cod poștal 400335, Cluj, România

- Cercetare și dezvoltare

Tipul sau sectorul de activitate Sisteme automate de monitorizare și control

EDUCAȚIE ȘI FORMARE

2005

Doctor in inginerie electrica
Universitatea Tehnică din Cluj-Napoca, Facultatea de Inginerie Electrică

Disciplinele principale studiate /competențe profesionale dobândite: *Research on smart sensor systems and applications*

1995

Inginer
Universitatea Tehnică din Cluj-Napoca, Facultatea de Automatica si Calculatoare, Specializarea: Calculatoare și Tehnologia Informației

COMPETENTE PERSONALE

Limba(i) maternă(e)   Romana

Alte limbi străine cunoscute	INTELEGERE		VORBIRE		SCRIERE
	Ascultare	Citire	Participare la conversaţie	Discurs oral	
Engleza	C2	C2	C2	C2	C2
Franceza	C1	C1	B2	B2	B1
Italiana	C1	C1	B1	B1	B1
Germana	B1	B1	B1	B1	A1

Niveluri: A1/A2: Utilizator elementar - B1/B2: Utilizator independent - C1/C2: Utilizator experimentat
Cadrul european comun de referinţă pentru limbi străine

Training
GIS - Mai 1998, Free University of Amsterdam, Olanda şi Februarie 1999, University of Toronto, Canada
Microelectronics - Januarie 2001, Ecole Polytechnique Federale de Lausanne, Elveţia
Smart Sensors- Mai 2002, Delft University of Technology, Olanda
Design for Test, Noiembrie 2004, Philips Research Laboratories, Eindhoven

Competenţe organizaţionale/manageriale
- Leadership şi management organizaţional, abilităţi interpersonale dovedite ca manager / director în proiecte de cercetare şi dezvoltare cu parteneri din mediul academic şi companii din industrie. Bună capacitate de comunicare, dobândită şi dovedită în activitatea didactică, de cercetare şi cea managerială

ANEXE

Anexa 1. Proiecte de cercetare-dezvoltare conduse
Anexa 2. Brevete
Anexa 3. Premii pentru activitatea ştiinţifică
Anexa 4. Cărţi şi lucrări publicate

Anexa 1. Proiecte de cercetare-dezvoltare conduse

Program/Proiect	Funcție	Perioadă
Echipament de chimiohipertermie intraperitoneala dezvoltat prin paradigma Cyber-Physical System, PN-II-RU-TE-357/01.10.2015, http://hiper-cps.hpm.ro/	Director proiect	2015-2017
Sistem integrat de senzori inteligenti pentru monitorizarea constructiilor hidrotehnice de importanta strategica, PN-II-PT-PCCA-2011-nr.71, http://hydrosens.hpm.ro/	Director proiect	2012-2016
Research on Test Compression and LBIST, Contract de cercetare UTCN-Philips Semiconductors, 2005-2008	Director proiect	2005-2008
Vision based systems for monitoring and inteligent control, X2C21/ 18.07.06	Director proiect	2006-2008
Algorithms for collecting, storing and wireless transceiving data coming from mobile sensors, Contract de cercetare UTCN – MultiPRO Amsterdam, 17.12.2007	Director proiect	2007-2008
Sistem de management al energiei obtinut din surse regenerabile, pentru mici comunitati izolate – REMSIS, PN-II-PT-PCCA-2013-4-1462, Director proiect: prof. dr. eng. Dorin Petreus	Responsabil proiect	2014-2016
Research on sensors technology and design algorithms for signal processing, Contract de cercetare nr.22520/30.11.2005 UTCN – MultiPRO Amsterdam 2005-2006	Responsabil proiect	2005-2006
Research-development contract nr. 1595/31.01.2005, UTCNTetraco International Netherlands,	Responsabil proiect	2005-2006
Research Project SCABOR, jointly developed by Volkswagen AG and Technical University of Cluj-Napoca	Responsabil proiect	2002-2003
Complex architecture for monitoring and transfer of medical data, CNCSIS 1019	Responsabil proiect	2008-2010

Anexa 2. Brevete

Brevete naționale
1. OSIM 123261 - *System for Monitoring the Progressive Loading of Lower Limb in Post-Traumatic Rehabilitation*, 2011
2. OSIM 122976 - *System And Process For Indirectly Measuring Mass Of Objects In Motion*, 2010
3. OSIM 122986 - *Contactless Coupling Circuit*, 2010
4. OSIM 122380- *Method And Device For Measuring Rotation Speed In Highly Disturbing Media*, 2009
5. OSIM 123490 - *Wireless System for Remote Tilt Measurement*, 2012

Anexa 3. Premii pentru activitatea științifică
- *Diploma of excellence ANCS, June 2010*
- *Award of excellence in scientific research of U.T.C.N,* Cluj-Napoca, 15.01.2007
- *Daimler Chrysler Innovation Preis,* Bruxelles, 2006

Anexa 4. Cărți și lucrări

Cărți și capitole de cărți
1. **D.Moga**, P. Dobra, *Smart Sensor Systems,* Editura Mediamira, ISBN 973-713-061-8, 2006
2. **D.Moga**, G. Mocanu, R.A.Munteanu, *Vision Based Measurement and Control,* Editura Mediamira, ISBN 978-973-713-233-8, 2009
3. T. Dragomir, M. Voicu, **D. Moga**. Chapter 1: *Fundamente Matematice in Automatica,* Vol. I, pp. 1-104, Coordonator: Ioan Dumitrache, Bucuresti, 2009, ISBN: 978-973-1883-4 Editura Academiei Romane 2009

Articole in reviste cotate si in volumele unor manifestari stiintifice indexate ISI proceedings
1. C. Lungoci, **D. Moga**, V. Muresan, D. Petreus, N. Stroia, R. Moga, M. Munteanu, I. Raus, V. Muntean, A. I. Mironiuc. Hyperthermic Intraperitoneal Chemotherapy Approach Based on Cyber-Physical System Paradigm, *Journal of Control Engineering and Applied Informatics,* vol 17, no 3, pp. 50-59, 2015.
2. F. A. Hrebenciuc, **D. Moga**, D. Petreus, Z. Barabas, R. Moga. Combined Analytical and Numerical Approach to Study Coil Arrays for Contactless Charging of Batteries in Active Transponders, *Electronics and Electrical Engineering,* vol. 123, no. 7, 2012, pp. 37-42, ISSN 1392–1215, DOI:10.5755/j01.eee.123.7.2372.
3. F. Hrebenciuc, N. Stroia, **D. Moga**, Z. Barabas, A Low Cost Approach to Large Smart Shelf Setups, *Advances in Electrical and Computer Engineering,* vol. 11, no. 4, pp. 117-122, 2011, ISSN: 1582-7445, DOI: 10.4316/AECE.2011.04019
4. D. Petreus, **D. Moga**, A. Rusu, T. Patarau, M. Munteanu, Photovoltaic System with Smart Tracking of the Optimal Working Point, *Advances in Electrical and Computer Engineering,* vol. 10, no. 3, pp. 40-47, 2010, ISSN: 1582-7445, DOI: 10.4316/aece.2010.03007
5. **Moga D.**, Munteanu R.A., Dumitrean M., Dobra M., Moga R., Wireless System for Remote Tilt Measurement in Monitoring and Control Applications, *Advances in Electrical and Computer Engineering,* vol. 8, no. 2, pp. 32 – 36, 2008, ISSN: 1582-7445, DOI: 10.4316/AECE.2008.02006
6. Petreus D., Moga D., Galatus R., Munteanu R.A., Modeling and Sizing of Supercapacitors, *Advances in Electrical and Computer Engineering,* vol. 8, no. 2, pp. 15 – 22, 2008, DOI: 10.4316/AECE.2008.02003
7. N. Stroia, **D. Moga**, E. Vitan, G. Cosovici, C. Lungoci, I. Kovacs, M. Mircea. "Internet based SCADA platform for monitoring strategic hydrotechnical structures", 20th IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2016, May 19-21, Cluj-Napoca, Romania, 2016. DOI: 10.1109/AQTR.2016.7501397
8. **D. Moga**, D. Petreus, N. Stroia. "Web based solution for remote monitoring of an islanded microgrid", The 42nd Annual Conference of the IEEE Industrial Electronics Society (IECON2016). October 24-27, 2016, Florence, Italy
9. R.Galatus, **D. Moga**, V. Cojocaru, N. Cennamo, L. Zeni. "Fuzzy control system based on SPR-POF fiber sensor for chlorine monitoring in water", Informatics,

Geoinformatics and Remote Sensing Conference Proceedings, SGEM 2016, Vol II, DOI: 10.5593/SGEM2016/B22/S10.114

10. Clitan I., Muresan V., Abrudean M., **Moga D.**, Valean H., Lungoci C., Mironiuc I.A. "Flow and temperature control for an innovative hyperthermic intraperitoneal chemotherapy equipment", 2015 19th International Conference on System Theory, Control and Computing, ICSTCC 2015 - Joint Conference SINTES 19, SACCS 15, SIMSIS 19. DOI: 10.1109/ICSTCC.2015.7321287

11. Muresan, V., Abrudean, M., Valean, H., Colosi, T., Ungureşan, M.-L., Sita, V., Clitan, I., Moga, D. "Neural Modeling and Control of a 13C Isotope Separation Proces", 12th International Conference on Informatics in Control, Automation and Robotics (ICINCO), 21 – 23 July, 2015, Colmar, Franţa, vol. 1, pp. 254-263. DOI: 10.5220/0005549002540263

12. M.L. Unguresan, V. Muresan, M. Abrudean, I. Clitan, T. Colosi, **D. Moga**. PID Control of a Chemical Absorption Process", in 20th International Conference on Control Systems and Computer Science (CSCS20-2015), (Bucharest, Romania), pp. 104 – 111, May 27 - 29 2015. DOI:10.1109/CSCS.2015.119

13. **D. Moga**, I. V. Sita, N. Stroia, P. Dobra, R. Moga, and D. Petreus, "Sensing and control strategies in tracking solar systems," in 20th International Conference on Control Systems and Computer Science (CSCS20-2015), (Bucharest, Romania), pp. 989 – 995, May 27 – 29 2015. DOI: 10.1109/CSCS.2015.143

14. **D. Moga**, N. Stroia, D. Petreus, R. Moga and R. A. Munteanu. "Embedded Platform for Web-based Monitoring and Control of a Smart Home". In Proceedings of 2015 IEEE 15th International Conference on Environment and Electrical Engineering Conference, pp. 1256-1261, ISBN 978-1-4799-7992-9, June 10-13, 2015. DOI: 10.1109/EEEIC.2015.7165349

15. I.V. Sita, P. Dobra, **D. Moga**, R. Manescu, V. Muresan, I. Clitan. "Optimization of residential heating systems using accumulators". In Proceedings of 2015 IEEE 15th International Conference on Environment and Electrical Engineering Conference, pp. 2165 - 2170, ISBN 978-1-4799-7992-9, June 10-13, 2015. DOI:10.1109/EEEIC.2015.7165514

16. I. Clitan, **D. Moga**, V. Muresan, N. Stroia, I.V. Sita, C. Lungoci, I.A. Mironiuc. "Digital temperature control for an hyperthermic intraperitoneal chemotherapy equipment," in 20th International Conference on Control Systems and Computer Science (CSCS20-2015), (Bucharest, Romania), pp. 98 – 103, May 27 - 29 2015. DOI:10.1109/CSCS.2015.63

17. Clitan I., Muresan V., **Moga D.**, Sita V., Lungoci C. "Measured signal identification and temperature controller design for a HIPEC device", 2015 38th International Conference on Telecommunications and Signal Processing, TSP 2015, pp. 304-308. DOI: 10.1109/TSP.2015.7296273

18. Clitan I., Lungoci C., Muresan V., **Moga D.**, Sita V. A robust temperature controller design for an innovative hyperthermic intraperitoneal chemotherapy equipment (2015) ICINCO 2015 - 12th International Conference on Informatics in Control, Automation and Robotics, Proceedings, 2, pp. 84-91.

19. P. Dobra, M. Dobra, **D. Moga**, V.I. Sita, R.A. Munteanu. *Model based fault detection for electrical drives with BLDC motor.* IEEE International Conference on Automation, Quality and Testing, Robotics, 2014 . DOI: 10.1109/AQTR.2014.6857849

20. T. Patarau, D. Petreus, R. Etz, **D. Moga**. *Sizing photovoltaic-wind smart microgrid with battery storage and grid connection.* IEEE International Conference on Automation, Quality and Testing, Robotics, 2014 . DOI: 10.1109/AQTR.2014.6857912

21. M. Munteanu, C. Rusu, **D. Moga**, R. Moga and G. Tont. EMG Signals Case Study: *A Time and Frequency Domain Analysis,* In IFMBE Proceedings of International Conference on Advancements of Medicine and Health Care through Technology, 2011, Volume 36, Part 3, 202-205, DOI: 10.1007/978-3-642-22586-4_44

22. F. Neaga, I. Raus, R. Moga, **D. Moga**, S. Vlad, N. Stroia, M. Munteanu. *Structured Light Based Imaging Architecture for Guided Fracture Reduction.* International Conference on Advancements of Medicine and Health Care through Technology (IFMBE Proceedings); vol. 44, pp 265-270 , 2014, DOI: 10.1007/978-3-319-07653-9_54

23. C. Lungoci, I. Raus, T. Oniu, **D. Moga**, N. Stroia, V. Muntean, D. Petreus, I. A. Mironiuc. *Assessment of temperature distribution in intraperitoneal chemohyperthermia.*International Conference on Advancements of Medicine and Health Care through Technology (IFMBE Proceedings), vol. 44, pp 193-196 , 2014, DOI: 10.1007/978-3-319-07653-9_39

24. C. Cristea, A. Florea, R. Galatus, E. Bodoki, R. Sandulescu, **D. Moga**, D. Petreus. *Innovative Immunosensors for Early Stage Cancer Diagnosis and Therapy Monitoring.* The International Conference on Health Informatics (IFMBE Proceedings), vol. 42, pp 47-50, 2014, DOI: 10.1007/978-3-319-03005-0_13

25. D. Petreus, **D. Moga**, A. Rusu, T. Patarau, S. Daraban. "A Maximum Power Point tracker for a photovoltaic system under changing luminosity conditions", In IEEE International Symposium on Industrial Electronics (ISIE), 4-7 July 2010, Bari, pp. 556 – 561, DOI: 10.1109/ISIE.2010.5637829.

26. F. Neaga, **D. Moga**, D. Petreus, M. Munteanu and N. Stroia. *A Wireless System for Monitoring the Progressive Loading of Lower Limb in Post-Traumatic Rehabilitation.* In IFMBE Proceedings of International Conference on Advancements of Medicine and Health Care through Technology, 2011, Volume 36, Part 1, 54-59, DOI: 10.1007/978-3-642-22586-4_13

27. Petreus D.,Ciocan I, Rusu A., **Moga D.**, A Quasi Real Time Simulator for Maximum Power Point Tracking Algorithms, 32nd International Spring Seminar on Electronics Technology (ISSE 2009), 2009, Brno, Czech Republic, DOI: 10.1109/ISSE.2009.5207007

28. Petreus, D.; Farcas, C.; Dobra, P.; Moga, D.,*Torque measurement system design.* IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2008, Volume 1, 22-25 May 2008 Page(s):174 – 177

29. Stroia, N.; **Moga, D.**; Dumitrean, M.; Petreus, D.; Dobra, M.; *Low cost environment for teaching and experimenting current based testing,* IEEE International Conference on Automation, Quality and Testing, Robotics, 2008. AQTR 2008.Volume 1, 22-25 May 2008 Page(s):208-211

30. Dobra, P.; Petreus, D.; **Moga, D.**; Trusca, M.; Tomesc, L.; Duma, R.; *Low-cost embedded solution for auto-tuning DC motor controllers,* IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2008, Volume 2, 22-25 May 2008 Page(s):280 - 284

31. R. Munteanu, **D.Moga**, M.Ivan, *Vision based measurement systems,*VIS'08 Proceedings of the 1st WSEAS International Conference on Visualization, Imaging and Simulation, 2008, Bucharest, ISBN: 978-960-474-022-2

32. P. Dobra, R. Duma, **D. Moga**, R.A. Munteanu, M. Munteanu, *Rapid control prototyping applications using TI C2000 DSP,* ICAI'08 Proceedings of the 9th WSEAS International Conference on International Conference on Automation and Information , 2008, Bucharest

33. P. Dobra, L. Nagy-Kulcsar, M. Truşcă, **D. Moga**, R. Balan, *Stability of the fast voltage control loop in DC-DC converters,* In Proceedings of International Conference on Automation, Quality and Testing, Robotics, pp. 107-112, vol. I, 25-28 May, 2006, Cluj-Napoca, Romania.

34. Nagy-Kulcsar, L.; Dobra, P.; **Moga, D.**; Dumitrean, M.; Stroia, N.; *Developing Simulation Models of Open Distributed Control System - Design Concepts Based on Foundation Fieldbus,* IEEE International Conference on Automation, Quality and Testing, Robotics, 2006,Volume 1, 25-28 May 2006 Page(s):132 - 137

35. M. Munteanu, **D. Moga**, R. A. Munteanu, R. Ciupa, and L. Floca. *Optimal Coil Geometry for Transcutaneous Power Transfer to Implanted Medical Devices.* In Proceedings of 2nd European Medical and Biological Engineering Conference. Vienna, Austria, December 04 - 08, 2002.

36. **D. Moga**, G. Lazea, M. Munteanu, R. A. Munteanu, and R. Fati. *A Low Cost Distributed Architecture for Humidity and Temperature Monitoring in Healthcare Facilities.* In Proceedings of 2nd European Medical and Biological Engineering Conference. Vienna, Austria, December 4 - 8, 2002.

37. P. Dobra, **D. Moga**. "Computation of proper and reduced order controllers via H(infinity) techniques". International-Federation-of-Automatic-Control Symposium on Robust Control Design, Prague, Czech Republic, June 21-23, 2000, ROBUST CONTROL DESIGN 2000, Book Series: IFAC SYMPOSIA SERIES Volume: 1-2, pp. 471-475

Articole in reviste si volumele unor manifestari stiintifice indexate in alte baze de date internationale (BDI)

1. A. Lodin, **D. Moga**, N. Stroia, D. Petreus, V. Muresan, R. A. Munteanu, L. Vladareanu. *Modelling and simulation of a remote controlled mechatronic device.* Periodicals of Engineering and Natural Sciences ISSN 2303-4521 Vol. 7, No. 1, June 2019, pp.255-260. DOI: http://dx.doi.org/10.21533/pen.v7i1.372.g262

2. R. Galatus, D. Petreus, **D. Moga**, T. Marita, N. Stroia. *Extending Battery Life Time in the Wireless Sensor Applications with Fluorescent Optical Fiber*

Concentrator, 2018 IEEE International Instrumentation and Measurement Technology Conference (I2MTC) - Sensors and Transducers, May 13-17, Houston, USA. DOI: 10.1109/I2MTC.2018.8409560

3. V. Muresan, **D. Moga**, D. Petreus, M. Abrudean, N. Stroia, R. Moga. *Fault Detection and Fault Tolerance Mechanism for DC/DC Converters in Microgrids*, IFAC-PapersOnLine, Volume 51, Issue 28, Pages 666-671, 2018. https://doi.org/10.1016/j.ifacol.2018.11.781

4. C-B Rusu, C. Lungoci, **D. Moga**, G. Cosovici, N. Stroia. *Modelling a Temperature Calibration System for Medical Probes*, 2017 21st International Conference on Control Systems and Computer Science (CSCS), 29-31 May 2017, Bucharest, Romania DOI: 10.1109/CSCS.2017.11

5. V. Muresan, I. Clitan, **D. Moga**, R. Moga, G. Cosovici, N. Stroia, C. Lungoci, I.A. Mironiuc, F. Neaga. *Modeling and control of the temperature for cytostatic solutions used in surgical procedures.* 2016 International Conference on Control Decision and Information Technologies (CoDIT'16), April 6-8, 2016, Malta, DOI: 10.1109/CoDIT.2016.7593649

6. **D. Moga**, D. Petreus, V. Muresan, N. Stroia, G. Cosovici *Optimal generation scheduling in islanded microgrids*, IFAC and CIGRE/CIRED Workshop on Control of Transmission and Distribution Smart Grids (CTDSG'16), October 11-13, Prague, Czech Republic, 2016

7. V. Muresan, M. Abrudean, **D. Moga**. Modeling, Simulation and Control of a Nonlinear Distributed Parameter Isotope Separation Process", IFAC PAPERSONLINE. VOLUME 48, ISSUE 30, Pages 191-196. DOI: 10.1016/j.procs.2015.08.550

8. C. Lungoci, V. Muresan, **D. Moga**, I. Clitan, R. Moga, V. Sita, T. Oniu, A. Mironiuc. *Advanced temperature control for innovative HIPEC equipment.* Procedia Computer Science, vol. 64, 2015, pp. 497–505. DOI: 10.1016/j.procs.2015.08.550. Conference on ENTERprise Information Systems/International Conference on Project MANagement/ Conference on Health and Social Care Information Systems and Technologies, CENTERIS/ProjMAN / HCist 2015 October 7-9, 2015, Vilamoura, Algarve, Portugal

9. I. Clitan, **D. Moga**, C. Lungoci, V. Muresan, N. Stroia, *Experimental Identification of Heating Process from Hyperthermic Intraperitoneal Chemotherapy (HIPEC) Equipment*, Applied Mechanics and Materials, Vol. 772, pp. 626-630, Jul. 2015

10. I. Clitan, M. Abrudean, V. Muresan, **D. Moga**, C. Lungoci. *Cytostatic Solution's Flow Control for a Hyperthermic Intraperitoneal Chemotherapy Device*, Applied Mechanics and Materials, vol. 811, 2015, pp. 359-364, Trans Tech Publications, Switzerland.

11. I. Clitan, **D. Moga**, C. Lungoci, I. A. Mironiuc, V. Muresan, and N. Stroia, *Design of a Temperature Controller for an Hyperthermic Intraperitoneal Chemotherapy Equipment*, in 2015 IEEE 10th Jubilee International Symposium on Applied Computational Intelligence and Informatics (SACI), pp. 49 – 54, May 21-23 2015 Timisoara. DOI:10.1109/SACI.2015.7208168.

12. N. Stroia, **D. Moga**, Z. Barabas. *Web based monitoring of solar power systems*, 2nd IFAC Workshop on Convergence of Information Technologies and Control Methods with Power Systems, May 22-24, 2013, pp. 131-136, Cluj-Napoca, Romania, DOI: 10.3182/20130522-3-RO-4035.00046.

13. S. Daraban, D. Petreus, **D. Moga**. *Novel Control for a Buck Converter Used in a DMPPT System.* 2nd IFAC Workshop on Convergence of Information Technologies and Control Methods with Power Systems, vol. 2, pp. 125-130, 2013, DOI: 10.3182/20130522-3-RO-4035.00036.

14. N. Stroia, **D. Moga**, I. Kovacs, G. Mocanu, and M. Dobra. *Hydropower Structures Monitoring System with Hierarchically Distributed Smart Sensor Network*, 2nd IFAC Workshop on Convergence of Information Technologies and Control Methods with Power Systems, May 22-24, 2013, pp. 37-41, Cluj-Napoca, Romania, DOI: 10.3182/20130522-3-RO-4035.00047.

15. R. Etz, D. Petreus, **D. Moga**, M. Abrudean, T. Patarau. *Fuzzy Digital Control for DC-DC Converters Used in Renewable Energy Systems.* 8th Power Plant & in IFAC Proceedings Volumes (IFACPapersOnline), vol. 8, no. PART 1, pp. 91-96, 2012.

16. **D. Moga**, D. Petreus, N. Stroia. *A low cost architecture for remote control and monitoring of greenhouse fields*, 7th IEEE Conference on Industrial Electronics and Applications (ICIEA 2012), pp. 1940 – 1944, 2012, 18 -20 July 2012, Singapore, DOI: 10.1109/ICIEA.2012.6361046

17. R. Etz, T. Patarau, D. Petreus, S. Daraban, **D. Moga**, *Digital Control for Phase Shift Converter*, IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2012), pp. 62 – 67, 2012, DOI: 10.1109/AQTR.2012.6237676

18. R. Moga, F. Hrebenciuc, N. Stroia, **D. Moga**. "Optimal approximations for liniarization of sensor transfer curves", Automation, Computers, Applied Mathematics (ACAM), 2012.

19. T. Patarau, D. Petreus, S.R. Daraban, R.A. Munteanu, **D. Moga**, A. Rusu. *Analysis and design of a bidirectional DC-DC converter with current doubler rectifier used in Smart Grid*, Electromotion, vol. 19, no. 1-2, pp. 56-63, 2012

20. R. Duma, P. Dobra, M. Trusca, D. Petreus and **D. Moga**. *Towards a Rapid Control Prototyping Toolbox for the Stellaris LM3S8000 Microcontrollers*, Preprints of the 18th IFAC World Congress Milano (Italy) August 28 - September 2, 2011

21. R. Munteanu, **D. Moga**, D. Petreus , N. Stroia, Z. Barabas, F. Hrebenciuc, *Diagnosis of Industrial Systems Driven by Electrical Machines with a Low Cost Platform*, 8th IEEE Symposium on Diagnostics for Electrical Machines, Power Electronics & Drives (SDEMPED'2011), Bologna, Italy

22. **D. Moga**, M. Dumitrean, N. Stroia, D. Petreus. *Remote Monitoring of Industrial Systems Health.* In *2nd IFAC Symposium on Telematics Applications*, Volume Telematic Applications, 2010, ISBN: 978-3-902661-84-5

23. Trusca, M.; Lazea, G.; Farcas, A.; Dobra, P.; **Moga, D.**, *Digital sliding mode control using low cost embedded solution*, IEEE International Conference on Automation Quality and Testing Robotics (AQTR), 2010, Cluj-Napoca, ISBN: 978-1-4244-6724-2

24. M.S. Munteanu, R. Balaban, **D. Moga**, M. Dumitrean, D. Rafiroiu and F. Neaga, *EKG Monitoring on the Mobile Phone using Bluetooth Transmission*, IFMBE Proceedings, International Conference on Advancements of Medicine and Health Care through Technology, 2009, Volume 26, 53-56, DOI: 10.1007/978-3-642-04292-8_12

25. P.. Dobra, R. Duma, **D. Moga**, M.Trusca, *Digital control applications using TI digital signal controller*, WSEAS Transactions on Systems and Control Journal, Volume 3 Issue 6, June 2008

26. Nedevschi S., Pantilie C., Marita T., **Moga D.**, Dudea S., *Towards the Standardization of Ultrasound Elastography: a Complete Approach*, Automation Computers Applied Mathematics, Vol.17, No. 1, 2008

27. **Moga D.**, Rusu .C, Dumitrean M., Moga R., Muresan A.,*Low Cost Monitoring Architecture For Vibration Based Systems Health Management*, IFAC Workshop Convergence of Information Technologies and Control Methods With Power Plants and Power Systems- ICPS'07

28. Dobra P., Duma R., **Moga D.**, Dobra M.,*Adaptive System Identification of Automotive Power Generation*, IFAC Workshop Convergence of Information Technologies and Control Methods With Power Plants and Power Systems- ICPS'07

29. P. Dobra, M. Trusca, **D. Moga**, *Designing and Testing of Modern Tools for Control Systems Prototyping*, 16th IFAC World Congress, Prague, Czech Republic, July 2005

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