

Curriculum Vitae

PERSONAL INFORMATION



DIMIAN Mihai

- STEFAN CEL MARE UNIVERSITY OF SUCEAVA
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- **dr.dimian** (Skype)

Sex Male | Date of birth 09/02/1975 | Nationality Romanian

POSITION WITHIN THE PROJECT	Partner 1 (Stefan cel Mare University) Project Responsible & Senior Researcher I
WORK EXPERIENCE	
2012 – present /	Vice-Rector for Scientific Activities and Professor; PhD Supervisor in the area of Electronics, telecommunications and information technologies
2007 - 2011	 /Associate Professor Stefan cel Mare University, Suceava, Romania (<u>www.usv.ro</u>) Faculty of Electrical engineering and Computing Science, 13 Universitatii St., building D, Suceava 720229, Romania Service in research, development and innovation activity of the university Didactic and research activities in the field of Electronic Engineering, Telecommunications and Nanotechnologies
2012 – 2017 / 2006 – 2012	 Associate Professor (tenured) & PhD Supervisor / Assistant Professor Howard University, Faculty of Electrical Engineering and Computers, 2400 Sixth Str. NW, Room LKD 3107, Washington, DC 20059, U.S.A. Didactic and research activities in the field of Electronic Engineering, Telecommunications and Nanotechnologies
2005 – 2006	Associate Researcher Max Planck Institute, Department of Applied Mathematics in Science and Engineering, 22 Inselstrasse, Leipzig, D-04103, Germania Research in modeling and simulation in engeneering and applied science
2001 - 2005	 Distinguished Graduate Research Assistant Maryland University, Faculty of Electrical Engineering and Computers, Paint Branch Str., A.V. Williams Bldg., College Park, MD 20740 U.S.A. Didactic and research activities in the field of Electronic Engineering, Telecommunications and Nanotechnologies
March 2001 – June 2005	Research Assistant Universitatea Versailles-St. Quentin, Laboratory of Magnetism and Optics 45 Etates Unites Avenue , Versailles 78035, Franta Research activities in Physics
EDUCATION AND TRAINING	
2001 - 2005	Doctor in Philosophy in Electrical / Electronics Engineering University of Maryland, College Park, USA - Faculty of Electrical Engineering and Computers ISCED 6
1997 - 2001	Bachelor of Science in Physics Alexandru Ioan Cuza University, Iasi, Romania – Faculty of Physics ISCED 5



Curriculum Vitae

1998 – 2000	Computer Science – studies interrupted due to studies abroad Alexandru Ioan Cuza University, Iasi, Romania – Faculty of Computer Science ISCED 5					
1998 – 2000	Master of Science in Dynamical Systems and Theoretical Mechanics Alexandru Ioan Cuza University, Iasi, Romania – Faculty of Mathematics ISCED 6					
1993 – 1997	Bachelor of Science in Mathematics Alexandru Ioan Cuza University, Iasi, Romania – Faculty of Mathematics ISCED 5					
PERSONAL SKILLS						
Mother tongue(s)	Romanian					
Other language(s)	UNDERSTANDING		SPEAKING		WRITING	
	Listening	Reading	Spoken interaction	Spoken production		
English	C2	C2	C2	C2	C2	
French	C1	C1	B2	B1	B1	
	Levels: A1/2: Basic u Common European I		ndent user – C1/2 Profic ence for Languages	ient user		
Communication skills Organisational / managerial	 Clarity and consion, nonverbal communication, active listening, constructive feedback, adaptability to different types of auditorium, umor, empathy, respect Extensive experience in writing research proposal, research reports, article and book, as well as in refereeing and editing for research journals; 2 years experience as Director of Communications and Public Relations Department at USV Decision making, problem solving, creativity, leardership, ability to attract and motivate 					
skills	 Decision making, problem solving, cleativity, leadership, ability to attract and motivate colleagues, team organiser Extensive experience in more than 20 international and national research and development projects in various positions, including project manager/responsible for 10 international and national projects, 6-year experience as Vice-Rector for Scientific activities at USV, 8 months as Acting Rector at USV 					
Job-related skills	 Ability to coordinate research teams (project manager/responsible for 10 international and national project, 6-year experience as Vice-rector for Scientific Activities at USV, 8 months as Acting Rector at USV) 					
	 Ability to perform research in optoelectronics, microwave engineering and theoretical physics Ability to perform statistical analysis and advanced data management 					
Digital competence	SELF-ASSESSMENT					
	Information processing	Communication	Content creation	Safety	Problem solving	
	Proficient user	Proficient use	r Proficient user	Proficient user	Proficient user	
	Levels: Basic user - Independent user - Proficient user Digital competences - Self-assessment grid					
	PC operation – Office, databases, etc., Maple, Matlab, C, C++					
Driving licence	No					
ADDITIONAL INFORMATION						

- Chairman comission for Electronics, Telecommunications and Nanotechnologies of the National Counsil for Titles, Diplomas and Certificates (CNATDCU)
- Associate Editor of the ISI Journal Advanced in Electrica land Computer Engineering



Curriculum Vitae

- Constantin Miculescu Prize of Romanian Academy (2014)
- Member of the National Council of Scientific Research
- 3rd Prize Romanian Researcher of the Year, Dinu Patriciu Foundation (2009)
- Faculty of the Year, Student Council, College of Engineering, Arch. & Computer Sc. (2008)
- Service Award, ECE Department, Howard University (2008)
- Distinguished Research Assistant, University of maryland, College PARK (2002, 2003, 2004)

Project Director

- Hybrid platform of visible light communications and augmented reality for the development of intelligent systems for active driver assistance and vehicle safety, PN III – Complex projects completed in consortia CDI, contract no. 21PCCDI/2018; Budget: 4.325.472 RON, Period: 05.2018 – 11.2020.
- Automotive Visible Light Communication System with Environment Adaptive capabilities, PN III – Experimental demonstration project, contract no. 36PED/2017, Budget: 596.440 RON, Period: 01.2017 – 06.2018.
- Analysis of noise and fluctuations induced phenomena in spintronics and semiconductor nanodevices, Romanian National Research Contract – Young Research Teams, no. 107/06.08.2010, budget: 547 000 RON, period: 1.07.2011 – 30.06.2014
- Constructive and disruptive effects of noise in nonlinear systems with hysteresis, European Framework 7 – Marie Curie Actions, contract no. 224904/1.05.2008, Budget: 100 000 Euro, Period: 05.2008–04.2012.
- Dynamics and stachastic analysis of nonlinear hysteretic systems with hysteresis, European Framework 7 Marie Curie Actions, contract no. 224904/1.05.2008, budget: 100000 Euro, period: 1.10.2007 – 30.09.2009
- Analysis of magnetization dynamics and relaxation in magnetic memories, Howard University Grant for Academic Excellence, Budget: 24 000\$, Period: 01.01 31.12.2007
- Mathematical models for magnetic devices, Max Planck Institute for Applied Mathematics, Leipzig, Germany; Budget: 50 000 Euro; Period: 01.10.2005-30.09.2006

Project responsible

- Partner Responsible LHCb studies of hadron production, heavy flavour physics and the upgrade program, Romanian National Research Contract, Romania – CERN Collaborations, Period: 2016-2018, Coordinated Budget: 696 189 lei
- Adjunct Director The analysis of interrelationship between gut microbiota and the host with applications in the prevention and control of type 2 diabetes, co-financed by European Regional Development Fund through Competitiveness Operational Programme, contract 120/16.09.2016, Period: 2016-2020, Budget: 9.331.538 lei
- Scientific Coordinator Integrated Center for research, development and innovation in Advanced Materials, Nanotechnologies, and Distributed Systems for fabrication and control, Sectoral Operational Program for Increase of the Economic Competitiveness co-funded by European Regional Development Fund. Period: 2015, Budget: 31.460.699 lei
- Partner Responsible LHCb from strangeness to b hadron physics and beyond, Romanian National Research Contract, Romania – CERN Collaborations, 2015, Coord. Budget: 192 000 lei
- Partner Responsible Development of reconfigurable system for smart building control and management of energy sources generated by renewable sources, Innovative Cluster EURONEST, European Structural Fund POSCCE, Period: 2014-2015, Coord. Budget: 203.918 lei
- Electromagnetics Group Coordinator Bayesian Imaging and Advanced Signal Processing for Landmine and IED Detection Using GPR, US Army Research Office, Period: 2011-2016, Budget: 2 500 000 \$, Howard University Electromagnetics Group Coordinator
- Electromagnetics Group Coordinator Physics based land mine detection algorithms using hyperspectral images; U.S. Army High Performance Computing Research Center, no. 033893, Budget: 78 000\$, Period: 01.01.2006- 31.12.2006.

• Involved in additional 14 research and development grants (6 in USA and 8 in U.E.)



Books (selection)	• Mihai Dimian , P. Andrei, "Noise-driven phenomena in hysteretic systems," Springer Publisher, New York, U.S.A., 233 pages, 2014, ISBN 978-1-4614-1373-8
	• Mihai Dimian – "Aspecte stocastice și dinamice ale sistemelor cu histeresis" Editura Mediamira, Cluj Napoca, Romania, Număr pagini: 170, Data: Decembrie 2010, ISBN: 978-973-713-281-9.
	• Mihai Dimian - "Nonlinear spin dynamics and ultra-fast precessional switching" Editura ProQuest Information and Learning, Ann Arbor, Statele Unite ale Americii, Număr pagini: 141, Data: Decembrie 2005, ISBN: 0-542-18364-1.
ISI papers [1 (selection)	A. Cailean, M. Dimian , Current Challenges for Visible Light Communications Usage in Vehicle Applications: A Survey, IEEE Communications Surveys and Tutorials, vol 19 (4), pg. 2681-2703 (2017), ISI impact factor 17,188
[2	A. Cailean, M. Dimian, Impact of IEEE 802.15.7 Standard on Visible Light Communications Usage in Automotive Applications, IEEE Communications Magazine, vol. 55 (4), pg: 169-175 (2017), ISI Impact factor: 10,435
[3	A. Cailean, M. Dimian , "Towards Environmental-Adaptive Visible Light Communications Receivers for Automotive Applications: A Review," IEEE Sensors Journal, vol. 16, no. 9, pp. 2803-2811, 2016, ISI Impact factor: 1.762.
[4	A. Cailean, M. Dimian , L. Chassagne, B. Cagneau, V. Popa, "Novel DSP Receiver Architecture for Multi-Channel Visible Light Communications in Automotive Applications," IEEE Sensors Journal, vol. 16, no. 10, pp. 3597-3602, 2016, ISI Impact factor: 1.762
[5	I. Gudyma, V. Ivashko, M. Dimian , "Pressure effect on hysteresis in spin-crossover solid materials," Physica B – Condensed Matter, vol. 486, pp. 40-43, 2016. ISI Impact factor: 1.319
[6	
[7	
[8	M. Dimian, P. Andrei, M. Grayson, "Hybrid models of hysteresis for mixed hysteretic loops in heterogeneous magnetic materials", Journal of Applied Physics, 115, 2014, art. 17D103. ISI Impact factor: 2,21
[9	I. Gudyma, A. Maksymov, M. Dimian , "Stochastic resonance in bistable spin-crossover compounds with light-induced transitions," Physical Review E, vol. 90 (5), art. no. 052135, 2014, .
[1	D. Chiruţă, M. Dimian, Y. Alayli, J. Linares, Y. Garcia – "Role of Edge Atoms in the Hysteretic Behaviour of 3D Spin Crossover Nanoparticles Revealed by an Ising-Like Model", European Journal of Inorganic Chemistry, no. 29, pp. 5086-5093, 2013. ISI Impact Factor: 3,12.
[1	1] I. Gudyma, A. Maksymov, M. Dimian , "Stochastic kinetics of photoinduced phase transitions in spin-crossover solids"", Physical Review E, vol. 88, 2013, art. 042111. ISI Impact Factor: 2,313.
[1	2] D. Chiruta, J. Linares, M. Dimian, Y. Garcia, "Size Effect and Role of Short- and Long-Range Interactions on 1D Spin-Crossover Systems within the Framework of an Ising-Like Model", European Journal of Inorganic Chemistry, 2013, Factor de impact ISI: 3,049.
[1	3] M. Dimian , O. Manu, P. Andrei, "Influence of noise color on stochastic resonance in hysteretic systems" Journal of Applied Physics, vol. 111, 2012, ISI IF 2,169,
[1	4] M. Dimian, P. Andrei, O. Manu, V. Popa, "Comparison of noise-induced resonances for different models of hysteresis", IEEE Transactions on Magnetics, vol. 47, no. 10, p. 3825-2838 (2011) ISI impact factor: 1.061.
[1	5] M. Dimian and P. Andrei, "Noise induced resonance phenomena in stochastically driven hysteretic systems", Journal of Applied Physics vol. 109, no. 07D330 (2011), ISI impact factor: 2.072.
[1	6] M. Dimian, A. Gîndulescu și P. Andrei, "Influence of noise temporal correlation on magnetization spectra and thermal relaxations in soft magnetic materials", IEEE Transactions on Magnetics, vol. 46 (2), pg. 266-269 (2010).
[1	7] M. Dimian, A. Adedoyin, A. Gîndulescu şi P. Andrei, "Modeling and simulation of noise induced phenomena in complex hysteretic systems," IEEE Transactions on Magnetics, vol. 45, nr. 11, pp. 5231-5234 (2009), Factor de impact ISI: 1,061.
[1	8] M. Dimian, A Gîndulescu şi C. Acholo, "Minimum field requirements for spin-polarized current assisted switching of magnetization in nanostructure with uniaxial anisotropy," Advances in Electrical and Computer Engineering, vol. 9, nr. 1, pg. 3-7 (2009), Factor de impact ISI: 0,501.
[1	9] M. Dimian, E. Coca şi V. Popa, Analytical and experimental analysis of noise passage through hysteretic systems, Journal of Applied Physics, vol. 105, no. 7, art. nr. 07D515 (2009), Factor de



impact ISI: 2,072.

- [20] M. Dimian, "Extracting energy from noise: noise benefits in hysteretic systems," NANO: Brief reviews and reports, vol. 3, nr. 5, pg. 391-397 (2008), ISI IF: 1,110.
- [21] M. Dimian, I. Mayergoyz, G. Bertotti şi C. Serpico "Multiple scale analysis of magnetization dynamics driven by external fields" Journal of Applied Physics, vol. 99 (8), art. nr. 08G104 (2006), Factor de impact ISI: 2,316.
- [22] M. Dimian şi I. Mayergoyz, "Influence of surface anisotropy on magnetization precessional switching in nanoparticles," Journal of Applied Physics, vol. 97 (10), art. nr. 10J302 (2005), Factor de impact ISI: 2,498.
- [23] I. Mayergoyz, M. Dimian, G. Bertotti şi C. Serpico, "Inverse problem approach to precessional switching in perpendicular media," Journal of Applied Physics, vol. 97 (10), art. nr. 10A703 (2005), Factor de impact ISI: 2,498.
- [24] M. Dimian și I. Mayergoyz, "Spectral density analysis of nonlinear hysteretic systems," Physical Review E, vol. 70 (4), art. nr. 046124 (2004), ISI IF: 2,352.
- [25] M. Dimian şi I. Mayergoyz, "Spectral noise density of the Preisach model," IEEE Transactions on Magnetics, vol. 40, 4, pg. 2134-36 (2004), ISI IF: 0,837.
- [26] I. Mayergoyz, M. Dimian, G. Bertotti şi C. Serpico, "Inverse problem approach to the design of magnetic field pulses for precessional switching," Journal of Applied Physics, vol. 95 (11), pp. 7004-7006 (2004), Factor de impact ISI: 2,255.
- [27] P. Andrei, M. Dimian, C. Krafft, I. D. Mayergoyz, D. I. Mircea, şi R. Rojas, "Anisotropy characterization of garnet films by using VSM measurements," Journal of Applied Physics, vol. 93 (10), pp. 7065-7067 (2003), Factor de impact ISI: 2,171.
- [28] H. Kachkachi şi M. Dimian, "Hysteretic properties of a magnetic particle with strong surface anisotropy," Physical Review B, vol. 66 (17), art. nr. 174419, Nr. Pag. 11 (2002), Factor de impact ISI: 3,075.

Date, 4.10.2018 Signature,