



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) **Marian RĂDUCU**
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Fax(es) +40 348 453 224
E-mail marian.raducu@upit.ro marian_raducu1963@yahoo.com
Nationality Romanian
Date of birth 11.01.1963
Gender M

Desired employment / Occupational field

Electronics Engineering

Work experience

Dates 1998 - present
Occupation or position held Senior Lecturer
Main activities and responsibilities Research and education
Name and address of employer UNIVERSITY OF PITESTI
110040 Pitesti, Str. Targu din Vale, nr.1, Arges, Romania
Dates 1995 - 1998
Occupation or position held Assistant Professor
Main activities and responsibilities Research and education
Name and address of employer UNIVERSITATEA DIN PITEȘTI
110040 Pitesti, Str. Targu din Vale, nr.1, Arges, Romania
Dates 1991 - 1995
Occupation or position held Engineer
Main activities and responsibilities Research and maintenance
Name and address of employer UNIVERSITATEA DIN PITEȘTI
110040 Pitesti, Str. Targu din Vale, nr.1, Arges, Romania
Dates 1987 - 1991
Occupation or position held Engineer
Main activities and responsibilities Maintenance
Name and address of employer Prospectorul S.A. (Intreprinderea de Prospectiuni Geologice si Geofizice)
Bucharest, Romania

Education and training

Dates October 1997 – September, 2003
Title of qualification awarded PhD
Principal subjects/occupational skills covered Electrical Engineering / Electronics and Telecommunication Engineering
Name and type of organisation providing education and training UNIVERSITY OF PITESTI
Dates October 01, 1982 – July, 1987

Title of qualification awarded | Bachelor of Science
Principal subjects/occupational skills covered | Electrical Engineering / Electronics, Communication
Name and type of organisation providing education and training | Polytechnic University of Bucharest, Faculty of Electronics, Communication and IT
Dates | September, 1976 – July, 1980
Title of qualification awarded | Lyceum diploma
Name and type of organisation providing education and training | Alexandru Odobescu Lyceum, Pitesti

	Understanding				Speaking				Writing	
	Listening		Reading		Spoken interaction		Spoken production			
English	B2	Independent user	B2	Independent user	A2	Basic User	A2	Basic User	B2	Independent user
French	A1	Basic User	A1	Basic User	A1	Basic User	A1	Basic User	A1	Basic User

(*) Common European Framework of Reference for Languages

Social skills and competences | I'm a communicative, sociable, reliable, conscientious, responsible and creative person
Computer skills and competences | Spice, Microsoft Office™ (Word™, Excel™, Visio™ and PowerPoint™);
Driving licence | B category

Annexes

List of the papers published is available on:
<https://scholar.google.com/citations?hl=en&user=RBRUJQMAAAAJ>
https://www.researchgate.net/profile/Marian_Raducu
<https://www.scopus.com/authid/detail.uri?authorId=24829842000>
<http://orcid.org/0000-0002-7607-5346>
I. Short CV
II. Scientific visibility and prestige
II.1. Main research results.
a) ID Founding Table:
II.2. The visibility of the scientific contributions
III. List of publication (all years Track-Record / 10-Year Track-Record, 2007-2018):
a) M. Raducu, PhD thesis
b) Books and chapters in books
b1) **Books and chapters in books publishes in International Publishing House** (4/4 in the last 10 years)
b2) Books published in Publishing House recognized by CNCSIS* (1/1 in the last 10 years)
*CNCSIS (National Council of Scientific Research in Higher Education)
c) Articles / Studies published in journals (Articole / studii publicate în reviste)
c1) Papers in ISI Journals (2 in the last 10 years)
c2) Papers in International Journals (2 in the last 10 years)
d) Articles / Studies published in conferences
d1) Articles / Studies published in ISI Web of Knowledge (14/12 in the last ten years)
d2) Papers in Proceedings of Conferences/Symposiums (33/24 in the last ten years)
d21) organized abroad (13/7 in last ten years)
d22) organized in Romania (20/17 in last ten years)
e) Patents: 0
f) R & D projects and innovation
f1) National research projects
f11) *Member in the research team* (10/10 in last ten years)
g) Other work and scientific contributions
g1) Papers in Journals of the Romanian Academy (2/0 in the last ten years)
g2) Other research projects:

I. Short CV

Marian RĂDUCU was born in Babana, Romania, on January 11, 1963. He received a five-year degree in Electronic engineering from the University "Polytechnic" of Bucharest, Romania, in 1987 and the Ph.D. degree in Electronics and Telecommunication Engineering from the University of Pitesti, in 2003. He is currently a Senior Lecturer with the University of Pitesti, Romania. He

has the author of one book in Analogical Electronics area. His current research interests include the broad area of modeling of analogical circuitry. He has authored or co-authored several papers in journals (ISI/BDI or Romanian Academy indexed) and international conferences proceedings. He is organizer member of the "Electronics, Computers and Artificial Intelligence - ECAI" Conference.

II. Scientific visibility and prestige

II.1. Main research results.

a) ID Founding Table:

I. The research made was focused on the field of energy management and power applications.

Web page	Identifier	Duration	Amount	Partners
http://www.sinerg.ro/	22140	2008-2011	500,000	RO
http://www.cnmp.ro/ceex/comp1_2006/oferta.php?id=5558	5558	2006-2008	360,000	RO
http://www.cnmp.ro/ceex/comp1_2006/oferta.php?id=4162	4162	2006-2008	400,000	RO
http://www.cnmp.ro/ceex/comp1_2006/oferta.php?id=4286	4286	2006-2008	370,000	RO
https://sensis-ict.ro/	0419	2018-2020		RO

II.2. The visibility of the scientific contributions

Organization of International conferences in the field of the applicant

Organizer member of the Int. Conf. on Electronics, Computers and Artificial Intelligence – ECAI, all editions: www.ecai.upit.ro.

III. List of publication (all years Track-Record / 10-Year Track-Record, 2008-2017):

M. RADUCU, PhD thesis "Macromodeling Methods and Techniques of the Analogical Electronic Circuits" ("Metode si tehnici de macromodelare a circuitelor electronice analogice"), 2003, Ph.D. in the field of Engineering (Electronic and Telecommunication Engineering), University of Pitesti.

Books and chapters in books (4 in the last 5 years)

1. *Advanced Techniques and Applications on Stability, Control and Optimal Operation of the Hybrid Power Systems*, book chapter (pag. 227-290): *Application in Control of the Hybrid Power Systems - Analysis, Control and Optimal Operations in Hybrid Power Systems* (64 pag.), N. Bizon, M. Oproescu, M. Răducu, Springer Verlag London Limited, London, UK, 2013, 978-1-4471-5538-6, 978-1-4471-5537-9 <http://www.springer.com/engineering/control/book/978-1-4471-5537-9>.
2. *Advances in Energy Research. Energy and Power Engineering*, book chapter (pag. 283-306): *PWM Cycloconverter – An Energy Efficient Topology For Fuel Cell Inverter* (24 pag.), N. Bizon, M. Răducu, M. Oproescu, Nova Science Publishers Inc., USA, 2013, 978-1-62257-534-3 (hardcover), 978-1-62257-546-6 (ebook). https://www.novapublishers.com/catalog/product_info.php?products_id=36315&osCsid=cce0dd5ced12df6ba9340d8c9d71142b
3. *Autonomous Vehicles: intelligent transport systems and smart technologies*, book chapter (*Chapter 12*) *Energy efficiency of the hybrid power source used in the plug-in fuel cell vehicles* (40 pag.), Nicu Bizon, Marian Răducu, Mihai Oproescu, L.M. Constantinescu, Nova Science Publishers Inc., USA, TL152.8.A88 2014, 978-1-63321-326-5 (e-book). https://www.novapublishers.com/catalog/product_info.php?products_id=50375&osCsid
4. N. Bizon, **M. Raducu**, L.M. Constantinescu, M. Oproescu, Chapter 6. *Energy Harvesting from the Photovoltaic Hybrid Power Source Based on Extremum Seeking Control Schemes*. In Nicu Bizon, Naser Mahdavi Tabatabaei, Frede Blaabjerg, Erol Kurt, *Energy Harvesting and Energy Efficiency*, Springer, 2017, Volume 37 of the series Lecture Notes in Energy pp 143-176, ISBN 978-3-319-49874-4 ISBN 978-3-319-49875-1 (eBook), DOI 10.1007/978-3-319-49875-1, 2017. https://link.springer.com/chapter/10.1007/978-3-319-49875-1_6

Books published in Publishing House recognized by CNCIS*:

1. M. RADUCU, "Analogical Electronic. Theory and Applications", ("Electronica Analogica. Teorie si aplicatii"), 203 pages, MatrixROM Publishing house, Bucharest, ISBN 978-973-755-513-7.

c) Articles / Studies published in journals (Articole / studii publicate în reviste)

c1) Papers in ISI Journals (2 in the last 10 years)

1. N. Bizon, E. Sofron, M. Raducu, M. Oproescu, Nonlinear Control for a Buck switching power supplies using opto-couplers in feedback loop, *Optoelectronics and Advanced Materials - Rapid Communications* 4(6) (2010) 788 – 794.

<http://oam-rc.inoe.ro/index.php?option=magazine&op=view&idu=1100&catid=51>

2. N. Bizon, P. Thounthong, **M. Raducu**, L.M. Constantinescu, *Designing and modelling of the asymptotic perturbed extremum seeking control scheme for tracking the global extreme* - *International Journal of Hydrogen Energy*, Impact Factor: 3,205, 2016.

<http://www.sciencedirect.com/science/article/pii/S0360319917302537>, 2017.

c2) Papers in International Journals (1 in the last 5 years)

1. N. Bizon, M. Oproescu, **M. Raducu**, L.M. Constantinescu, *The extremum seeking control based on band pass filter for the dither signal processed in the control loop*, *International Journal on "Technical and Physical Problems of Engineering"* (IJTPE), ISSN 2077-3528, September 2013, Issue 16, Volume 5, Number 3, Pages 133-141.

d) Articles / Studies published in conferences

d1) Articles / Studies published in ISI Web of Knowledge (13/13 in the last ten years)

1. N. Bizon, M. Oproescu, **M. Raducu**, 2008, Fuzzy bang-bang control of a switching voltage regulator, 16th IEEE International Conference on Automation, Quality and Testing, Robotics - AQTR 2008, Vol. 2, pp. 192-197, ISBN: 978-1-4244-2576-1, INSPEC Accession Number: 10207806, IEEE Catalog Number CFP0834A-CDR 10.1109/AQTR.2008.4588819

http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?amumber=4588819. WOS:000259080000030

2. N. Bizon, **M. Raducu**, M. Oproescu, 2008, Fuel cell current ripple minimization using a bi-buck power interface, 13th International Power Electronics and Motion Control Conference 2008, pp. 636-643, ISBN 978-1-4244-1742-1, IEEE Catalog Number CFP0834A-CDR (IEEEExplore), http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=4635334 WOS:000262093800097
 3. N. Bizon, M. Oproescu, **M. Raducu**, *On the Dither Persistence in the Extremum Seeking control – Part I: ESC loop based on Band-Pass Filter*, World Congress on Sustainable Technologies (WCST-2012), pp. 112-116, November 19-22, 2012, London, UK, ISBN: 978-1-908320-08-4, WOS:000320667000020. www.wcst.org.
 4. N. Bizon, M. Oproescu, **M. Raducu**, *On the Dither Persistence in the Extremum Seeking control – Part II: Signal harmonics' persistence for large filtering pass band*, World Congress on Sustainable Technologies (WCST-2012), pp. 117-122, November 19-22, 2012, London, UK, ISBN: 978-1-908320-08-4, WOS:000320667000021. www.wcst.org
 5. Nicu Bizon, Mihai Oproescu, **Marian Raducu**, Luminita Mirela Constantinescu, *On the search speed for the extremum seeking control 2D-schemes. Part I – signal processing using orthogonal dither signals*, The 5th edition of the International Conference. Electronics, Computers and Artificial Intelligence. ECAI 2013, Pitesti, Romania, WOS:000343672500002. <http://ecai.ro>.
 6. Nicu Bizon, Mihai Oproescu, **Marian Raducu**, Luminita Mirela Constantinescu, *On the search speed for the extremum seeking control 2d-schemes. Part II – performances estimation*, The 5th edition of the International Conference. Electronics, Computers and Artificial Intelligence. ECAI 2013, Pitesti, Romania, WOS:000343672500003. <http://ecai.ro>.
 7. Bizon N., **Raducu M.**, Oproescu M., Constantinescu L., *Energy Efficiency of the PV Panels Using a MPPT Controller with Improved Search Speed - Part I: Modeling of the PV Power System under Extremum Seeking Control*, pp. 45-50, 19th International Conference Applied Electronics 2014, Pilsen, WOS:000375940400010. www.appel.zcu.cz.
 8. Bizon N., **Raducu M.**, Oproescu M., Constantinescu L., *Energy Efficiency of the PV Panels Using a MPPT Controller with Improved Search Speed - Part II: Simulation Results*, pp. 51-56, 19th International Conference Applied Electronics 2014, Pilsen, WOS:000375940400011. www.appel.zcu.cz.
 9. Ioan Cristian Hoarcă, **Marian Răducu**, *Energy Efficiency Analysis of Various Topologies, Control Techniques and Technologies Used for Photovoltaic Part I: On The PV Modeling*, pp. 39-44, vol. 6, The 6th edition of the International Conference. Electronics, Computers and Artificial Intelligence, ECAI 2014, Bucharest, Romania, ISSN – 1843 – 2115, <http://ieeexplore.ieee.org/document/7090218/>. WOS: 000380489500049
 10. Ioan Cristian Hoarcă, **Marian Răducu**, Luminita-Mirela Constantinescu, *Energy Efficiency Analysis of Various Topologies, Control Techniques and Technologies Used for Photovoltaic Part II: Maximum Power Point Tracking Algorithms*, pp. 45-48, vol. 6, The 6th edition of the International Conference. Electronics, Computers and Artificial Intelligence, ECAI 2014, Bucharest, Romania, ISSN – 1843 – 2115, WOS: 000380489500050. <http://ieeexplore.ieee.org/document/7090219/>.
 11. Marin Radut, **Marian Raducu**, *On The Maximum Power Point Matching of The Photovoltaic Panels to Load Demand*, pp. 59-62, vol. 3, The 6th edition of the International Conference. Electronics, Computers and Artificial Intelligence, ECAI 2014, Bucharest, Romania, ISSN – 1843 – 2115, <http://ieeexplore.ieee.org/document/7090181/>, WOS: 000380489500079.
 12. Cristian Ion Hoarca, **Marian Raducu**, *Performance comparison of three MPPT algorithms: AESC, mESC and P&O*, Proceedings of Int. conf on Electronics, Computers and Artificial Intelligence - ECAI'15, pp. S35-S42, București, Vol. 7 – No. 1/ 2015, ISBN – 978-1-4673-6646-5. <http://ieeexplore.ieee.org/document/7301158/>, 2015, (TC_2_2015_DECIE), WOS: 000370971100023.
 13. Mihai Oproescu, Marian Raducu, Luminita Mirela Constantinescu, *Evaluation of the performance of new Extremum Seeking Control algorithm to locate accurately the peaks on multimodal functions*, ECAI 2016 - International Conference – 8th Edition Electronics, Computers and Artificial Intelligence, 30 June -02 July, 2016, Ploiesti, ROMÂNIA [IEEEExplore] [Scopus] ISBN: 978-1-5090-2047-8, WOS: 000380489500079, 2016.
 14. Nicu Bizon, Mihai Culcer, Mariana Ilescu, Marian Raducu, Luminita-Mirela Constantinescu, *Real-time strategy to optimize the operation of Fuel Cell Hybrid Power Source under variable load cycle*, ECAI - 9th Edition of International Conference on Electronics, Computers and Artificial Intelligence, Targoviste, ROMÂNIA, 29 June -01 July, 2017 <http://ieeexplore.ieee.org/document/8166514/>, WOS: 000425865900130, 2017.
- d2) Papers in Proceedings of Conferences/Symposiums (33/24 in the last ten years)
- d21) organized abroad (13/7 in last ten years)
- d22) organized in Romania (20/17 in last ten years)
- e) Patents: 0
- f) R & D projects and innovation
- f1) National research projects
- f11) *Member in the research team* (9 in last ten years)
- g) Other work and scientific contributions
- g1) Papers in Journals of the Romanian Academy (2/0 in the last ten years)
- g2) Other research projects:
1. Silviu Ioniță, Marian Răducu, Alin Mazăre, Adrian Soare – *Diagnosis Technique of Metal Shielding of the Short Electrical Cables*, , CONTRACT nr. 7888/30.11.2001, Draxlmaier Serviceleistung Romania.