

Curriculum Vitae

Personal information

First name(s) / Surname(s)	Radu Adrian MUNTEANU
Telephone(s)	0264-401434
Fax(es)	-
E-mail	radu.a.munteanu@ethm.utcluj.ro
Nationality	Romanian
Date of birth	13.03.1975

Work experience

Dates	02.2000 - present
Name and address of employer	Department of Electrotechnics and Measurements, Faculty of Electrical Engineering, Technical University of Cluj-Napoca, 28 Memorandumului Str., 400114, Cluj-Napoca, România
Occupation or position held	Junior Assistant (2000), Assistant (2002), Lecturer (2005), Associate Professor (2007), Professor (2016)
Main activities and responsibilities	Teaching and research activity

Education and training

Dates	29.09.2015
Title of qualification awarded	Habilitation Thesis in Electrical Engineering
Principal subjects/occupational skills	Title of Habilitation Thesis: Engineering applications in the field of measurement signal processing, reliability analysis, and process measurements and control
Name and type of organization providing education and training	Technical University of Cluj-Napoca, 28. Memorandumului str., 400114, Cluj-Napoca
Dates	10.1999 – 08.2006
Title of qualification awarded	PhD in Electrical Engineering
Principal subjects/occupational skills	Title of Doctoral Thesis: "Contributions to the development of synchronous detection techniques and applications"
Name and type of organization providing education and training	Technical University of Cluj-Napoca, 28. Memorandumului str., 400114, Cluj-Napoca
Dates	10.1999-06.2000
Title of qualification awarded	Master/Advanced Studies
Principal subjects/occupational skills	Metrology and Instrumentation
Name and type of organization providing education and training	Technical University of Cluj-Napoca, 28. Memorandumului str., 400114, Cluj-Napoca
Dates	10.1998-06.1999
Title of qualification awarded	Master/Advanced Studies
Principal subjects/occupational skills	Sociopsychopedagogy/Social Communication
Name and type of organization providing education and training	Faculty of History and Philosophy, Babeş-Bolyai University Cluj-Napoca, 7-9 Universității str., 400084 Cluj-Napoca
Dates	10.1994-06.1999
Page 1/5 - Curriculum vitae of	

Page 1/5 - Curriculum vitae of Radu Adrian MUNTEANU

Title of qualification awarded Principal subjects/occupational skills

Name and type of organization providing education and training

Title of qualification awarded

Electrical Engineer

Cluj-Napoca

General Electrical Engineering

Technical University of Cluj-Napoca, 28. Memorandumului str., 400114, Cluj-Napoca

Dates 10.1994-06.1998

Bachelor's degree in Sociology

Sociopsychopedagogy/Sociology

Principal subjects/occupational skills

Name and type of organization providing education and training

Personal skills and competences

Romanian Mother tongue(s)

Other language(s)

Self-assessm Εt 1.

uropea	n I	ev	el	(*)
	E	ng	li	sh

sessment	Understanding		Speaking		Writing
an level (*)	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
French	C2	C2	C2	C2	C2
Italian	C1	C1	C1	B2	B1
German	B1	A2	B2	B1	A2

Faculty of History and Philosophy, Babeş-Bolyai University Cluj-Napoca, 7-9 Universității str., 400084

Didactic activity

Teaching Courses	Electrical and Electronic Measurements Quality and Reliability Electronic Instrumentation Reliability of Medical Equipment Quality Management in Medical Engineering Data Acquisition Systems Home Automation and Building Management Systems
Training Mobility	National Technical University of Athens, Greece, 2000 Tampere International Center for Signal Processing, Tampere University of Technology, Finland, 2001 Delft University of Technology, Delft, The Netherlands, 2002 Institut fuer Werkzeugmaschinen der Universitaet Stuttgart, Germany, 2004, 2006 Ajou University, Suwon, Republic of Korea, 2005 Vrije Universiteit Brussel, Belgium, 2006 University of Szeged, Hungary, 2008 European Patent Office, Haga, The Netherlands, 2008 National University of Singapore, Singapore, 2009 HAMK University, Finland, 2011 Ecole Polytechnique Federale de Lausanne, Switzerland, 2016 Technical University of Moldova, Chişinău, Republic of Moldova, 2019 University of West Attica, Department of Electrical and Electronics Engineering, Athens, Greece, 2019 Slovak University of Technology in Bratislava, Slovakia, 2020, 2022

Institutional Projects 1. Transnational partnership for the development of pre-university technical education by applying the (max 5 the most representative) German system of "projects for practical work" in school workshops in Romania, Project POSDRU/87/1.3/S/64234, 01.10.2010-28.02.2013, Project Manager

Facilitating access to the labor market through internships for students. Project POSDRU/22/2.1/G/22008, 01.10.2010-30.09.2012. Project Manager

3. Developing entrepreneurial and managerial skills in the area of innovative SMEs in Romania for the formation and promotion of national and transnational partnerships. Project POSDRU/92/3.1/S/63922. 01.11.2010-30.10.2013.

Interuniversitv 4. Partnership for Excellence in Engineering - PARTING, project POSDRU/159/1.5/S/137516 2014-2015.

5. Strategic framework for the adoption and use of innovative technologies in public administration 2021-2027 - solutions for streamlining activity, project SIPOCA 704/ cod SMIS: 129878.

Research

National Grants 1. Supporting the integration of Romanian research in the field of electromagnetic pollution into European networks, programs and partnerships in the field. Funding: State Budget - Ministry of (max 5 the most representative) Education and Research, "Research of Excellence" Program, National Authority for Scientific Research. CEEX Project - MODULE III, Title Contractor: "Gh. Asachi" Technical University of Iaşi. Associate Contractor - Partner P2: Technical University of Cluj-Napoca, 2006-2008. Collectively responsible. 2. Development of applied techniques for discrete-time synchronous detection for measuring electrical circuit parameters, Contract AT CNCSIS 2007, contract director 3. Modular complex automation system with remote dispatching for controlling the technological flow of wheat and/or corn mills - AUTMPG, Financing Contract no. 1250/2007, PN II Innovation: Associate Contractor - Partner P2: Technical University of Cluj-Napoca, 2007-2009. Project Manager 4. Automatic system with configurable and modular real-time control for obtaining combined feeding for goats, Financing Contract no. 11/ 19.09.2007, PN II Innovation: Associate Contractor - Partner P2: Technical University of Cluj-Napoca, 2007-2009. Project Manager 5. Blueprint for Net-Zero Apartment-block Neighborhoods, Horizon 2020 Grant agreement ID: 101036519, 2023-2025, member International Grants 1. Fostering the implementation of shallow geothermal hybrid heating and cooling systems in the Danube Region, Interreg Programme Danube Region, DRP0200244 -Danube GeoHeCo, 2024-(max 5 the most representative) 2026, Project Manager 2. Energy Transition Audits towards Decarbonization - EnTRAINER, LIFE Grant Agreement No 101076424, 2023-2025 3. Research contract between the Technical University of Clui-Napoca and MultiPRO vof (Netherlands). with the aim of research activities in the field of sensor technology and development of algorithms in the field of signal processing, 2005 - 2006, member 4. Development of new numerical analysis techniques and their implementation in a software package for 3D optimization of electromagnetic and electrochemical devices - DESIGN, BWS04/03. Bilateral research contract with Flanders, partner Vrije Universiteit Brussel, Belgium, 2005-2007 Scientific publications 12 co-authored books/chapters/guides published with ISBN Over 180 scientific papers published Editor 1 ISI-listed journal, 1 BDI journal / Reviewer 5 ISI-listed journals, 2 BDI journals, over 15 international conferences / Chairman-Member of the Scientific Committee 13 9 awarded patents

Additional information

Awards	GHEORGHE CARTIANU Prize of the Romanian Academy in the field of Science and Information Technology, 2010 (awarded in 2012).		
	"Professor Bologna" distinction from the National Alliance of Student Organizations of Romania (ANOSR), 2012.		
	Diploma of Excellence of the Academy of Technical Sciences of Romania, 2015.		
	Diploma of Merit of the Ministry of Research and Innovation, 2019.		
	Badge of Honor of the Technical University of Moldova (patent no. 136), Republic of Moldova, 2015		
	Diploma of Excellence of the Technical University of Moldova, 2019.		
	3 awards from the National Authority for Scientific Research (ANCS), 2010.		
	Diploma of Excellence of the Technical University of Cluj-Napoca, 2013.		
	Excellence Award of the Faculty of Electrical Engineering for young researchers, Technical University of Cluj-Napoca, 2006.		
	Over 180 distinctions, diplomas, gold and silver medals at international invention salons (Geneva, Brussels, Moscow, Zagreb, Budapest, Taipei, Seoul, Singapore, Warsaw, Nuremberg, Sevastopol, Chisinau, Bucharest, Iasi, Cluj-Napoca).		
	Editor's Choice Article, SENSORS (revisited ISI), September 2024		
Membership of	Member of AEHR Association for Hydrogen Energy of Romania		
Professional Societies	Member of the Romanian Robotics Society SRR		
	Member General Association of Engineers of Romania AGIR		
	Member Romanian Coalition for Engineering Education - CREDING		
Other relevant activities	UEFISCDI Evaluator for the program "PNRR - Endowments - 2023"		
	Expert of the Ministry of Research, Innovation and Digitalization – 2023		
	UEFISCDI Evaluator for the PED Experimental-Demonstrative Projects program - 2024		
Significant books published in the last 10 years (max 10)	 Radu A. Munteanu, Adrian Augustin Pop, Horia Bălan - Electrical Measurement Techniques in Power Protection Systems: Laboratory Work, Mediamira Publishing House, ISBN 978-973-713-316-8, 2014 		
	2. Dan Iudean, Radu Munteanu jr., Mircea Buzdugan, Eudor Flueraş, Alex Creţu - <i>Electrical and Electronic Measurements: Laboratory Tutorial</i> , Mediamira Publishing House, ISBN 978-973-713-338-0, 2016		
	3. Rodica Holonec, Radu Adrian Munteanu, Romul Copîndean, Florin Drăgan - Virtual Instrumentation. Laboratory work, UTPRESS Publishing House, ISBN 978-606-737-340-0, 2018		

Significant papers published in the last 10 years (max 10)

1. Cheimaras, Vasileios; Papagiakoumos, Spyridon; Peladarinos; Nikolaos; Trigkas, Athanasios; Papageorgas, Panagiotis; Piromalis, Dimitrios D.; Munteanu, Radu A. - *Low-Cost, Open-Source, Experimental Setup Communication Platform for Emergencies, Based on SD-WAN Technology*, TELECOM, Volume5, Issue2, Page 347-368, DOI10.3390/telecom5020018, Published JUN 2024

2. Daousis, Spyridon; Peladarinos, Nikolaos; Cheimaras, Vasileios; Papageorgas, Panagiotis; Piromalis, Dimitrios D.; Munteanu, Radu Adrian - *Overview of Protocols and Standards for Wireless Sensor Networks in Critical Infrastructures*, FUTURE INTERNET, Volume16 Issue 1, DOI10.3390/fi16010033, Article Number 33. Published JAN 2024

3. Peladarinos, Nikolaos; Piromalis, Dimitrios; Cheimaras, Vasileios; Tserepas, Efthymios; Munteanu, Radu Adrian; Papageorgas, Panagiotis - *Enhancing Smart Agriculture by Implementing Digital Twins: A Comprehensive Review*, SENSORS, Volume 23, Issue 16, DOI10.3390/s23167128, Article Number 7128. Published AUG 2023

4. Druta, Roxana-Maria; David, Geanina-Maria; Munteanu, Radu-Adrian; Birgovan, Loredana-Andreea; Clinci, Sorin-Dan - *WEEE Industry in the Context of Circular Economy*, ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING, Volume 64, Issue 4, Page 689-696, Special Issue SI. Published DEC 2021

5. Ovidiu-Catalin, Blidar; Munteanu, Radu A.; Leon, Brai; Iudean, Dan; Alexandru, Risteiu; Paul, Popa -Modeling and Simulation of a Compensation PCB for Oscilloscope Probes, 2021 16TH INTERNATIONAL CONFERENCE ON ENGINEERING OF MODERN ELECTRIC SYSTEMS (EMES), Page 21-24, DOI 10.1109/EMES52337.2021.9484115. Published 2021

6. Leon, Brai; Mihai, Bolchis; Ovidiu-Catalin, Blidar; Radu, Balan; Munteanu, Radu A. - Active Filtering in Beamforming Circuit: Design, Calculation and Simulation, 2021 16TH INTERNATIONAL CONFERENCE ON ENGINEERING OF MODERN ELECTRIC SYSTEMS (EMES), Page 29-32, DOI 10.1109/EMES52337.2021.9484135. Published 2021

7. Dulf, Evelin-H; (Berciu, Alexandru-G; Munteanu, Radu A.; Kovacs, Levente - Advantages of Prefilters in Stroke Diagnosis from EEG Signals, 2021 INTERNATIONAL CONFERENCE ON E-HEALTH AND BIOENGINEERING (EHB 2021), 9TH EDITION, DOI 10.1109/EHB52898.2021.9657718. Published 2021

8. Bolba, Marius; Munteanu, Radu A.; Iudean, Dan; Cretu, Alexandru - Analysis of the wholesale energy market price in Romania and its impact on the end customer, PROCEEDINGS OF 2019 8TH INTERNATIONAL CONFERENCE ON MODERN POWER SYSTEMS (MPS), DOI 10.1109/mps.2019.8759795. Published 2019

9. Balc, Claudiu; Cretu, Alexandru; Munteanu, Radu, Jr.; Iudean, Dan; Balan, Horia; Karaisas, Petros -Reliability Modeling for an Automatic Level Control System - 2017 INTERNATIONAL CONFERENCE ON OPTIMIZATION OF ELECTRICAL AND ELECTRONIC EQUIPMENT (OPTIM) & 2017 INTL AEGEAN CONFERENCE ON ELECTRICAL MACHINES AND POWER ELECTRONICS (ACEMP), Page 995-1000. Published 2017

10. Dorca, Vasile, Popescu, Sorin; Munteanu, Radu, Jr.; Chioreanu, Adrian; Peleskei, Claudius - *Agile Approach with Kanban in Information Security Risk Management*, PROCEEDING OF 2016 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS (AQTR), Page19-24. Published 2016

Cluj-Napoca, Date: September 2024 Name and signature: Radu Adrian MUNTEANU