09/03/2020

EUROPEAN CURRICULUM VITAE FORMAT



Address

E-mail

Dates

Dates

PERSONAL INFORMATION

Name LUIGE VLADAREANU

34-36 GOLOVITA, BUCHAREST 1, ROMANIA

Telephone 00 40 744 756005

> Fax 00 40 21 3126736

> > Luigiv@arexim.ro; luigiv2007@yahoo.com.sg

Romanian Nationality

Date of birth 30 JULY 1953

WORK EXPERIENCE

Occupation or position held

· Occupation or position held

· Occupation or position held

· Name and address of employer

· Name and address of employer

· Main activities and responsibilities

2010- present;

2009- present:

Head of Robotics Department;

PhD Advisor:

Institute of Solid Mechanics of Romanian Academy

2005- present;

1992-2005

Professor /Senior Scientific Researcher (CS I) Scientific Researcher (CP II&CPIII)

Institute of Solid Mechanics of Romanian Academy

Robotics&Mechatronic, real time control in solid mechanics, industrial robot control systems, semi-active control of mechanical systems' vibrations, hybrid position - force control for industrial robots. PLC open architecture systems

Dates

1984-1992

Scientific Researcher

· Name and address of employer Center of Solid Mechanics, Institute of Physics and Technology of Materials (ICEFIZ)

Robotics&mechatronic, tribology, real time control systems, Control of Vibrations and

Waves

Dates

1991-

· Occupation or position held Director

· Name and address of employer · Main activities and responsibilities

· Main activities and responsibilities

Industrial Engineering and Technological VTC, Industrial Research Company

Industrial automation, PLC control systems, low voltage ABB equipment and

engineering for automation projects with PLC ABB programmable automates

Dates

1981-1984

· Occupation or position held Head of the automation laboratory

Danubiana Tires Company (IAD Bucharest)

automation, electro-mechanical maintenance and design equipments

Dates

1977-1981

· Occupation or position held

Engineer

· Name and address of employer

· Name and address of employer

· Main activities and responsibilities

Danubiana Tires Company (IAD Bucharest) automation, electro-mechanical designs

· Main activities and responsibilities

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eurescv-search.com/

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EDUCATION AND TRAINING

Dates (from – to)

2005 -2007

 Name and type of organization providing education and training ABB-DESTO, Heidelberg, Germany

Principal subjects/occupational skills covered

Low voltage and automation design

• Title of qualification awarded

European certified

• Dates (from - to)

1999-2001

 Name and type of organization providing education and training ABB-DESTO, Heidelberg, Germany

Principal subjects/occupational skills covered

Programmable automates and programming

Title of qualification awarded

European certified

• Dates (from - to)

1995-1998

 Name and type of organization providing education and training Institute of Solid Mechanics of Romanian Academy

Principal subjects/occupational skills covered

mistrate of Sond Mechanics of Romanian Academy

fizice experimentale cu sisteme multimicroprocesor"

through multimicroprocessor systems" / "Contributii in achizitia numerica a datelor

• Title of qualification awarded

Ph.D. thesis: "Contributions in experimental physical data numerical acquisition

• Dates (from - to)

1994-1996

Dr. Ing.

Name and type of organization

CAPTELS PESAGE - Montpellier - France

providing education and training

Dosing and weighing automate installations

 Principal subjects/occupational skills covered

European certified

Title of qualification awarded
 Dates (from – to)

1987

 Name and type of organization providing education and training Computers and Information Institute (ICI)

 Principal subjects/occupational skills covered Programming in assembler language

· Title of qualification awarded

Programming certified

• Dates (from - to)

1982

 Name and type of organization providing education and training Politechnica University of Bucharest

Principal subjects/occupational skills covered

Numerical control of industrial processes

· Title of qualification awarded

Process control diploma

• Dates (from - to)

1974-1975

 Name and type of organization providing education and training Faculty of Electronics and Telecommunications Politechnic University of Bucharest

Principal subjects/occupational skills covered

Pedagogy course

· Title of qualification awarded

Professor certified

• Dates (from - to)

1972-1977

 Name and type of organization providing education and training Faculty of Electronics and Telecommunications Politechnica University of Bucharest

 Principal subjects/occupational skills covered Student

Title of qualification awarded

Dipl. Ing., Engineer

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PERSONAL SKILLS AND COMPETENCES

Acquired in the course of life and career but not necessarily covered by formal certificates and diplomas.

MOTHER TONGUE

OTHER LANGUAGES

- · Reading skills
- · Writing skills
- Verbal skills

SOCIAL SKILLS

AND COMPETENCES

Living and working with other people, in multicultural environments, in positions where communication is important and situations where teamwork is essential (for example culture and sports), etc.

ROMANIAN

[Specify language]

ENGLISH - good

ENGLISH - good

ENGLISH- good

- Participated in over 50 international conferences/congresses: IcaMechs Tokyo, Beijing, Melbourne 2015-2016, ICCMIT Madrid, Praga, Vienna, 2015-2019, OPTIROB Bucharest 2012-2017, IFAC Berlin 2019, 20Ro ESPOCO'2005, Rio de Janeiro, Brasil; ICSV12, Lisbon, Portugal, 2005; ICMEN'2005, Chalkidiki, Greece; TMCR'2005, Kishinev, Moldova; 5th ECPA'2005, Uppsala; ICSV11, Sant Petersgurg, 2004; AMSE, ICMS'2004, Valladolid, Spain; AMSE, MT'2004, Lyon, France; AMSE, MT'2003, Habana, Cuba; ECPA, AgEG'2002, Budapest; AMSE, CSS'01, Rabat,Marcco; AMSE, MSNN'2000, Medida, Venezuela; AMSE, MS'2000, Las Pamas, Spain, AMSE, SYS'98, Lyon, France, AMSE, I.T.H.U.R.S'96, Leon, Spain; SYS'94, Lyon, France
- Prize Traian Vuia Romanian Academy (2006).
- Certificate of Excellence in Research 2000, SIR 2000, Government of Romania, National Agency for Science, Technology and Innovation
- Medal of Excellence 4-10 dec. 2000, SIR 2000, Government of Romania, National Agency for Science, Technology and Innovation
- 9 International Invention and Innovation Competition Awards and Gold of World's Exhibition of Inventions, Geneva 2007 – 20011, and other 9 International Invention Awards and Gold of the Brussels, Zagreb, Bucharest International Exhibition.
- Member on the Committee of Engineering Sciences of the National Council for Scientific Research in Superior Education (CNCSIS)
- Member of the International Institute of Acoustics and Vibration (IIAV), Aubum University, USA;
- Member of the World Scientific and Engineering Academy Society (WSEAS);
- Member of the International Association for Modelling and Simulation Techniques in Enterprises-AMSE, France;
- Consulting Member of UEFISCUS
- Member of the Group of Consulting Experts PNCDI 2007-2013
- Member of the Romanian Robotics Association ARR (din 1991);
- Member of the Romanian Tribology Association ART (din 1990)
- Member of the international association DIGITAL (din 1995)
- Diamond Club Member
- President of the Committee of Evaluation of the Technical Informatics and Automations of the Technical University "Gh.Asachi" (April 2005).
- Evaluator Expert of the National Council for Scientific Research in Superior Education (CNCSIS); Evaluation of over 70 projects of the national program CNCSIS 2003-2005 and the excellence program 2005
- Member on the evaluation committees of over 20 grants/projects of national research development programs or Romanian Academy programs, two of which European programs
- Team leader of over 50 projects finalized with industrial applications



ORGANIZATIONAL SKILLS AND COMPETENCES

Coordination and administration of people, projects and budgets; at work, in voluntary work (for example culture and sports) and at home, etc.

Director and coordinator of 8 grants of national research – development national programs and participant in another 24 international and national grants. Project director and team leader in over 20 complex automations in various fields of economy. Manager of over 50 industrial applications involving programmable automates in distributed and decentralized structure. Coordinator for an international dealership contract with low voltage ABB equipment and engineering for automation projects with PLC ABB programmable automates concluded with ABB SST Heidelberg, Germany, 1996 - 2003.

Partner in two projects of the Leonardo da Vinci program. Tourist guide for trips in the Bucegi Mountains (1975 – 1977)

TECHNICAL SKILLS AND COMPETENCES

With computers, specific kinds of equipment, machinery, etc.

14 invention patents, over 20 scientific monographies and ₹books published, over 100 technical articles published at international congresses/conferences, of which 47 in published in ISI/BDI research journals. Design, execution and activation of over 50 industrial technical applications. developing 17 advanced work methods resulting from applicative research activities.

Interests: robot control; intelligent control; artificial intelligence; intelligent agents; intelligent sensors systems; advanced intelligent control methods and techniques, intelligent decision support systems; versatile intelligent portable platforms, human-robot (H2R) interaction systems. machine-to-machine (M2M) interfaces, prediction; machine learning; IoT technologies; cyberphysical systems; IT Industry 4.0 concept, industrial systems in the digital age, intelligent sensors applied to rescue robots, firefighting robots, rehabilitation robots, robot-assisted surgery, domestic robots.

Contributions to the following fields of interest: real time control in solid mechanics; robot intelligent interfeces control, machine learning, deep learning, adaptive neural networks, control of industrial robots: dynamic systems' control; semi-active control of mechanical systems' vibrations; semi-active control of systems with magneto-rheological dissipaters; multimicroprocessor systems for real time command and control of industrial robots; numerical control command of mechanical processing centers; position control of robots; hybrid position force control for industrial robots; numerical acquisition of experimental physical data; dispatching and monitoring through remote transmission of distribution systems; complex industrial automations with programmable automates in distributed and decentralized structure: open systems for numerical command (OPEN - CNC) of mechanical processing centers; data acquisition systems for monitoring of tools through vibrations; establishing the wear state of machine organs based on vibration diagnostics; dynamic problems in solid mechanics; intelligent control of building heating; real time control of the turation of high power electrical generators.

OTHER SKILLS AND COMPETENCES Competences not mentioned above.

DRIVING LICENCE(S)

Category B from 1985

ADDITIONAL INFORMATION

Full list of scientific publications enclosed

ANNEXES

[List any attached annexes.]

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Professor Luige Vladareanu, Ph. D. Eng. Director of Robotics and Mechatronics Department Romanian Academy, Institute of Solid Mechanics, Bucharest Romania

E-mail: luigiv@arexim.ro; luigiv@imsar.bu.edu.ro, www.vipro.edu.ro

Brief Profile

LuigeVladareanu received Ph.D. degree in electronics field from the Institute of Solid Mechanics of Romanian Academy, in 1998, From 2003, Ministry of Education and Research, executive Department for Financing Superior Education and of Scientific University Research - High Level Expert Consulting for MEC/CNCSIS project, from 2003-2005, member of Engineering Science Committee of Romanian National Research Council, from 2005, Scientific Researcher Gr.I (Professor) of Romanian Academy, from 2009 Head of Robotics and Mechatronics Department of Institute of Solid Mechanics, Romanian Academy. His scientific work is focused on real time control in solid mechanics applied in robot trajectory control, hybrid position - force control, multi-microprocessor systems for robot control, acquisition and processing of experimental physical data, experimental methods and signal processing, nano-micro manipulators, semi-active control of mechanical system vibrations, semi-active control of magnetorheological dissipaters systems, complex industrial automations with programmable logical controllers in distributed and decentralized structure. He has published over 35 books and book chapters, 11 edited books, over 200 papers in journals, proceedings and conferences in the areas. Director and coordinator of over 15 grants of international and national research - development programs in the last 5 years, 15 invention patents, developing 17 advanced work methods resulting from applicative research activities and more then 60 research projects. He is the author of the virtual projection method known as Vladareanu-Munteanu method, of the Robot Neutrosophic Control RNC method known as Vladareanu-Smarandache method, and the method of the Extended (Extenics) Hybrid Force-Position Control eHFPC of robots applied as Vladareanu-Smarandache-Sandru method. He is the winner of the two Prize and Gold of Excellence in Research 2000, SIR 2000, of the Romanian Government and the Agency for Science, Technology and Innovation. 9 International Invention and Innovation Competition Awardsand Gold of World's Exhibition of Inventions, Geneva 2007 - 2016, and other 9 International Invention Awards and Gold of the Brussels, Zagreb, Bucharest International Exhibition. He received "TraianVuia" (2006) award of the Romanian Academy, Romania's highest scientific research forum, for a group of scientific papers published in the real time control in the solid mechanics. He is a Corresponding Member of the American Romanian Academy and he is a member of the International Institute of Acoustics and Vibration (IIAV), Auburn University, USA (2006), ABI's Research Board of Advisors, American Biographical Institute (2006), World Scientific and Engineering Academy Society, WSEAS (2005), International Association for Modelling and Simulation Techniques in Enterprises - AMSE, France (2004), National Research Council from Romania (2003-2005), etc. He is a PhD advisor in the field of mechanical engineering at the Romanian Academy. He was an organizer of several international conferences such as the General Chair of four WSEAS International Conferences (http://www.wseas.org/conferences/ 2008/romania/amta/index.html), chaired Plenary Lectures to Houston 2009, Harvard, Boston 2010 and Penang, Malaysia 2010, Paris 2011, Florence 2014, Tenerife 2015 to the WSEAS International Conferences, is team leader of WSEAS scientific research project: Mechanics & Robotics Systems and is serving on various other conferences and academic societies.

Prof. Luige Vladareanu, Ph.D. Eng.
Director of Robotics and Mechatronics Department,
Romanian Academy, Institute of Solid Mechanics,
Corresponding Member of the American-Romanian Academy,
Member of the International Institute of Acoustics and Vibration, Auburn University, USA

Guest Editor, Advanced Intelligent Control through Versatile Intelligent Portable Platforms, Sensors journal, ISSN 1424-8220, IF 3,031, Print Special Issue Flyer, 2019, website: https://www.mdpi.com/journal/sensors/special issues/advanced intelligent control

Vice-President, Speaker and Special Session Chair of ICCMIT 2019, Vienna, Austria, website: https://www.iccmitconference.net/, https://www.iccmitconference.net/specialsessions

Coordinator Director of PN-II-PT-PCCA-2013-4-2009, no.9/2014, 2014-2017 (http://vipro.edu.ro)

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Coordinator Director of "Joint Laboratory of Intelligent Rehabilitation Robot" collaborative research project between Romanian Academy by IMSAR and Yanshan University, China and Ministry of Science and Technology of the People's Republic of China, MOST of PRC, STAP-DC project No. KY201501009

Romanian Partner Director of FP7 EU RABOT (http://rabot.fusion-edu.eu<hr/>http://rabot.fusion-edu.eu</hr>

Romanian Partner Director of H2020 RISE, SMOOTH project (negotiation phase)

Coordinator Director of TOP MetEco AMBIENT project (http://www.fonduri-ue.ro), POC-A.1-A.1.2.1-D-2015, ID P_39_383/2016-2018, Project co-financed by the European Regional Development Fund through Competitiveness Operational Programme 2014-2020

Chair of SISOM 2016 (http://www.imsar.ro/Call for papers SISOM 2016.pdf)

Special Session Chair of ICAMECHS 2016, Melbourne, Australia, (http://web.tuat.ac.jp/~deng/icamechs2016/icamechs2016.html)

Special Session Chair of SKIMA 2016, Chengdu (http://fusion-edu.eu/SKIMA2016/organisation-committee/)

Vice-President, Speaker and Special Session Chair of ICCMIT 2017 (http://www.iccmit.net/index17.html and http://www.iccmit.net/special-session17.html)

Email: luigiv2007@yahoo.com.sg , luige.vladareanu@yipro.edu.ro , www.vipro.edu.ro

LIST OF SIX MAIN SCIENTIFIC PUBLICATIONS:

- 1. Luige Vladareanu, Alexandru Gal, Hongnian Yu, Mingcong Deng, "Robot control intelligent interfaces using the DSmT and the neutrosophic logic" International Journal of Advanced Mechatronic Systems, Volume 6, Issue 2-3, ISSN: 1756-8420, pg. 128-135, Publisher Inderscience Publishers (IEL), 2015, https://www.inderscienceonline.com/author/Vladareanu%2C+Luige;
- 2. Yongfei Feng, Hongbo Wang, Luige Vladareanu, Zheming Chen, Di Jin, Sensors 2019, 19(15), 3439; Special Issue <u>Advanced Intelligent Control through Versatile Intelligent Portable Platforms</u>, https://doi.org/10.3390/s19153439;
- 3. Vladareanu, V., Capitanu, L. and Luige Vladareanu*, "Neuro-Fuzzy Modelling of the Metallic Surface Characterization on Linear Dry Contact between Plastic Material Reinforced with SGF and Alloyed Steel", Materials 2018, 11(7), 1181-1202, ISSN: 1996-1944, WOS:000442117300132, Q1&Q2;
- 4. Vlădăreanu, L., Smarandache, F., Ali, M., Vlădăreanu, V. and Deng, M., "Robot system identification using 3D simulation component applied on VIPRO platform", International Conference on Advanced Mechatronic Systems (ICAMechS), 2016, Melbourne, VIC, Australia, 30 Nov.-3 Dec. 2016, DOI: 10.1109/ICAMechS.2016.7813482, ISSN: 2325-0690, pg: 406-411, IEEE Xplore, Web of Science;
- 5. Ionel-Alexandru Gal, Danut Bucur and Luige Vlădăreanu * (corresponding author), "*DSmT Decision-Making Algorithms for Finding Grasping Configurations of Robot Dexterous Hands*", Symmetry 2018, 10 (6), 198-214; pp.25, Published: 1 June 2018, ISSN: 1729-8814, WOS:000436283000018, https://doi.org/10.3390/sym10060198, IF 1.256, Q1&Q2;
- 6. Patent EPO-09464001.8, OSIM Brevet123527 / 30.04.2014, Luige Vladareanu, Lucian M. Velea, Radu I. Munteanu, Adrian Curaj, Sergiu Cononovici, Tudor Sireteanu, Lucian Capitanu, Mihai S. Munteanu, "Real time control method and device for robot in virtual projection / Metoda şi dispozitiv de control în timp real al roboților prin proiecție virtuală".

15.09.2020 Luige Vladareanu III.