

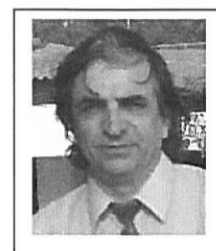
10/05/2021

**EUROPEAN
CURRICULUM VITAE
FORMAT**



PERSONAL INFORMATION

Name **LUIGI VLADAREANU**
 Address
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 Fax **00 40 21 3126736**
 E-mail Luigiv@arexim.ro
 Nationality **Romanian**
 Date of birth



WORK EXPERIENCE

| | | |
|--|---|---|
| • Dates | 2019 -present | 2018 -present |
| • Occupation or position held | Director of the Technology Transfer Center in Robotics and Advanced Technologies – CITT ROBTA | President of the Romanian Robotics Society, Bucharest Branch, |
| • Name and address of employer | Institute of Solid Mechanics of Romanian Academy | Politehnica University of Bucharest |
| • Dates | 2010- present; | 2009- present; |
| • Occupation or position held | Director and Head of the Robotics Department | PhD Advisor; |
| • Name and address of employer | Institute of Solid Mechanics of Romanian Academy | |
| • Dates | 2005- present; | 1992-2005 |
| • Occupation or position held | Senior Scientific Researcher (CS I) | Scientific Researcher (CP II&CPIII) |
| • Name and address of employer | Institute of Solid Mechanics of Romanian Academy | |
| • Main activities and responsibilities | 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 | |
| • Occupation or position held | Scientific Researcher | |
| • Name and address of employer | Center of Solid Mechanics, Institute of Physics and Technology of Materials (ICEFIZ) | |
| • Main activities and responsibilities | Robotics&mechatronic, tribology, real time control systems, Control of Vibrations and Waves | |
| • Dates | 1991- present | |
| • Occupation or position held | Director | |
| • Name and address of employer | Industrial Engineering and Technological VTC, Industrial Research Company | |
| • Main activities and responsibilities | 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 | |

| | |
|--|--|
| • Name and address of employer | Danubiana Tires Company (IAD Bucharest) |
| • Main activities and responsibilities | automation, electro-mechanical maintenance and design equipments |
| • Dates | 1977-1981 |
| • Occupation or position held | Engineer |
| • Name and address of employer | Danubiana Tires Company (IAD Bucharest) |
| • Main activities and responsibilities | automation, electro-mechanical designs |
| 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 | Ph.D. thesis: “Contributions in experimental physical data numerical acquisition through multimicroprocessor systems” / “Contributii in achizitia numerica a datelor fizice experimentale cu sisteme multimicroprocesor” |
| • Title of qualification awarded | Dr. Ing. |
| • Dates (from – to) | 1994-1996 |
| • Name and type of organization providing education and training | CAPTELS PESAGE – Montpellier – France |
| • Principal subjects/occupational skills covered | Dosing and weighing automate installations |
| • Title of qualification awarded | European certified |
| • 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
- 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

**PERSONAL SKILLS
AND COMPETENCES**

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

MOTHER TONGUE

ROMANIAN

OTHER LANGUAGES

[Specify language]

- Reading skills
- Writing skills
- Verbal skills

ENGLISH - good
ENGLISH - good
ENGLISH-good

**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.*

- 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 Petersburg, 2004; AMSE, ICMS'2004, Valladolid, Spain; AMSE, MT'2004, Lyon, France; AMSE, MT'2003, Habana, Cuba; ECPA, AgEG'2002, Budapest; AMSE, CSS'01, Rabat, Marocco; AMSE, MSNN'2000, Medida, Venezuela; AMSE, MS'2000, Las Palmas, 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), Auburn 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; cyber-physical 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 interfaces 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; multi-microprocessor 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

Brief profile and shortlist of scientific publications enclosed



Luige Vladareanu
President of the Romanian Robotics Society, Bucharest Branch
Director of Robotics and Mechatronics Department
Director of the Innovation and Technological Transfer Center in
Robotics and Advanced Technologies CITT-ROB.TA
Romanian Academy, Institute of Solid Mechanics, Bucharest
Romania

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

Brief Profile

Luige Vladareanu 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 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 than 60 research projects. He is the author of the *virtual projection method* known as Vladareanu-Munteanu method, of the *Robot Neurosophic 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 Awards and 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 "Traian Vuia" (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.

Luige Vladareanu
President of the Romanian Robotics Society, Bucharest Branch,
Director of Robotics and Mechatronics Department,
Director of the Innovation and Technological Transfer Center in Robotics and Advanced
Technologies CITT-ROB.TA
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

Sensors Editorial Board Member , 'Intelligent Sensors' Section, <https://www.mdpi.com/journal/sensors>, https://www.mdpi.com/journal/sensors/sectioneditors/Intelligent_Sensors , IF 3,275

Editors-in-Chief of the PROCEEDINGS „The Annual Symposium of the Institute of Solid Mechanics and Session of the Commission of Acoustics”, Romanian Academy scientific sponsor, SISOM 2007 to 2020, ISSN 1843-5459 (2007-2014) & ISBN 978-1-59973- 480-4, USA (2016-2020)

Editorial Board Member of the Romanian Journal of Technical Sciences, Applied Mechanics, SSN: 2601-5811 (Print), e-ISSN: 2601-582X (Online), <http://www.ear.ro/3brevist/rv51/rv51.htm>

Editorial Board Member of the Neutrosophic Sets and Systems, An International Journal in Information Science and Engineering, ISSN (print): 2331-6055, ISSN (online): 2331-608X, IF 1,739, <http://fs.unm.edu/NSS/>

Special Issue Editor, Guest Editor of the Sensors journal, Advanced Intelligent Control through Versatile Intelligent Portable Platforms, Sensors journal, ISSN 1424-8220, IF 3,275, https://www.mdpi.com/journal/sensors/special_issues/advanced_intelligent_control , Print Special Issue Flyer , 2019

Special Issue Editor, Guest Editor of Acta Electrotehnica, PROCEEDINGS, SISOM 2015, vol. 57, nr. 1-2 2016, SISOM2016, vol. 58, nr. 1-2, 2017, SISOM2017, vol. 59, nr. 1-2,2018, SISOM2018, vol. 60, nr. 1-2, 2019, SISOM2019, vol. 61, nr. 1-2, 2020, ISSN 2344-5637, <https://ie.utcluj.ro/acta-electrotehnica.html>

IFTOMM Member, International Federation for the Promotion of Mechanism and Machine Science, VLADAREANU Luige (Romania) (iftomm.net)

President, Keynote Speaker and Special Session Chair of the International Conference on Robotics and Solid States, ICRSS'20 & ICCMIT 2020, Athens, Greece, 1-2 April 2020, <http://www.usarconferences.org/robotics20.html#topic>

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

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

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><<http://rabot.fusion-edu.eu/project>

Romanian Partner Director of H2020 RISE, SMOOTH project, <https://www.fusion-edu.eu/SMOOTH/about/> , <https://cordis.europa.eu/project/id/318902>

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.iccm.net/index17.html> and <http://www.iccm.net/special-session17.html>)

LIST OF TWENTY MAIN SCIENTIFIC PUBLICATIONS:

1. **L. Vladareanu** (Ed.), "Advanced Intelligent Control through Versatile Intelligent Portable Platforms", Published: September 2020, Book, Pages: 322, Open Acces, ISBN 978-3-03936-996-6 (Hbk); ISBN 978-3-03936-997-3 (PDF), <https://doi.org/10.3390/books978-3-03936-997-3>, MDPI, Switzerland, © 2020 by the authors; CC BY licence, conține 16 articole ISI, indexate wos, cu **IF 3.275**
2. **Luige Vladareanu**, *Advanced Intelligent Control through Versatile Intelligent Portable Platforms*, Sensors 2020, 20, 3644, doi:10.3390/s20133644, **IF 3.275**, WOS:000553202500001
3. Melinte, Daniel Octavian and **Vladareanu, Luige**, 2020. *Facial Expressions Recognition for Human-Robot Interaction Using Deep Convolutional Neural Networks with Rectified Adam Optimizer*. Sensors, 20(8), 2393. **IF:3.275**, WOS:000533346400235
4. **Vlădăreanu, L.**, Vlădăreanu, V., Pop, N., Migdalovici, M., Boșcoianu, M., Pop, S., & Ciocîrlan, A. (2020). *Robot Extenics Control Developed by Versatile, Intelligent and Portable Robot Vipro Platform Applied on Firefighting Robots*. *IJOE*, 16(8), 99, WOS:000551815900007, eISSN: 2626-8493, WOS:000551815900007.
5. Yongfei Feng, Hongbo Wang, **Luige Vladareanu**, Zheming Chen and Di Jin, "New Motion Intention Acquisition Method of Lower Limb Rehabilitation Robot Based on Static Torque Sensors". Sensors 2020, cap.2., pg. 9-24, Open Acces, ISBN 978-3-03936-996-6 (Hbk); ISBN 978-3-03936-997-3 (PDF), <https://doi.org/10.3390/books978-3-03936-997-3>, MDPI, Switzerland, September 2020, **IF:3.275**,
6. Vlădăreanu, V., Voiculescu, V.G., Grosu, V.A., **Vlădăreanu, L.**, Travediu, A.M., Yan, H., Wang, H. and Ruse, L. (2020). *Detection of Anomalous Behavior in Modern Smartphones Using Software Sensor-Based Data*. *Sensors*, 20(10), 2768, **IF 3.275**, WOS:000539323700022, eISSN: 1424-8220, WOS:000539323700022.
7. Dumitrache, I.; Caramihai, S.; Moisescu, M.; Sacala, I.; **Vladareanu, L.**; Repta, D. A Perceptive Interface for Intelligent Cyber Enterprises, Sensors 2020, cap.4., pg. 45-64, Open Acces, ISBN 978-3-03936-996-6 (Hbk); ISBN 978-3-03936-997-3 (PDF), <https://doi.org/10.3390/books978-3-03936-997-3>, MDPI, Switzerland, Published: September 2020, **IF:3.275**.
8. Hao Yan, Hongbo Wang, **Luige Vladareanu**, Musong Lin, Victor Vladareanu and Yungui Li, "Detection of Participation and Training Task Difficulty Applied to the Multi-Sensor Systems of Rehabilitation Robots", Sensors 2020, cap.3., pg. 25-44, Open Acces, ISBN 978-3-03936-996-6 (Hbk); ISBN 978-3-03936-997-3 (PDF), <https://doi.org/10.3390/books978-3-03936-997-3>, MDPI, Switzerland, Published: September 2020, **IF:3.275**.
9. **Luige Vlădăreanu**, Ionel-Alexandru Gal, Octavian D. Melinte, Victor Vlădăreanu, Mihaiela Iliescu, Adrian Bruja, Yongfei Feng, Alexandra Ciocîrlan. Robot Digital Twin towards Industry 4.0. 1st Virtual IFAC World Congress 2020, Germany, July 11-17, 2020.
10. **Luige Vladareanu**, Victor Vladareanu, Ionel-Alexandru Gal, Octavian D. Melinte, Marius Pandelea, Mihai Radulescu, Alexandra-Catalina Ciocîrlan. Digital Twin in 5G Digital Era developed through Cyber Physical Systems". 1st Virtual IFAC World Congress 2020, Germany, July 11-17, 2020.
11. **L. Vladareanu**, V. Vladareanu, N. Pop, M. Migdalovici, M. Boșcoianu, S. Pop, A. Ciocîrlan, "Robot Extenics Control Developed by Versatile, Intelligent and Portable Robot Vipro Platform Applied on Firefighting Robots", International Conference on Robotics and Solid States, September 14-16, 2020, Atena, Grecia: <http://www.usarconferences.org/specialrobot.html>, Conference Chair Luige Vladareanu
12. 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;
13. **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> ;
14. **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;

15. 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;

16. **L. Vlădăreanu**, M. Rădulescu, V. Vlădăreanu, R.I. Munteanu, H. Wang, Y. Feng, Y. Hou, M. Lin, "Adaptive inference for real time rehabilitation robot control by artificial intelligence techniques", Proceedings of the XXXth SISOM2019, Edited by L. Vladareanu, Published by MEDIAMIRA, pg. 42-50, indexed The Educational Publisher Inc., USA, ISBN 978-1-59973-480-4, Special Issue, Acta Electrotehnica, ISSN 2344-5637, ISSN-L 1841-3323, vol.61,2020

17. Ionel-Alexandru Gal, **Luige Vladareanu**, Radu I. Munteanu, A. Ciocîrlan, A.M. Travediu. "Smart wireless sensors routing protocol development aimed for smart wireless robot networks", Proceedings of the XXXth SISOM2019, Edited by L. Vladareanu, Published by MEDIAMIRA, pg. 151-157, indexed The Educational Publisher Inc., USA, ISBN 978-1-59973-480-4, Special Issue, Acta Electrotehnica, ISSN 2344-5637, ISSN-L 1841-3323, vol.61,2020

18. M. Migdalovici, **L. Vlădăreanu**, N. Pop, V. Vlădăreanu, A. Vlădeanu, D. Baran, G. Vlădeanu, "Algorithm for physical identification of walking robots critical position", Proceedings of the XXXth SISOM2019, Edited by L. Vladareanu, Published by MEDIAMIRA, pg. 158-165, indexed The Educational Publisher Inc., USA, ISBN 978-1-59973-480-4, Special Issue, Acta Electrotehnica, ISSN 2344-5637, ISSN-L 1841-3323, vol.61,2020

19. Patent EPO-09464001.8, OSIM Brevet no. 23527 / 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 și dispozitiv de control în timp real al roboților prin proiecție virtuală".

20. Patent OSIM no. 128910 " Method and device for extended hybrid force-position control of the robotic and mechatronic systems", **Vladareanu Luige**, Cai Wen, Munteanu Radu Ioan, Yan Chunyan, Vladareanu Victor, Munteanu Radu Adrian, Li Weihua, Smarandache Florentin, Gal Ionel Alexandru, BOPI no.9/2020, 30.09.2020.

10.05.2021

Luige Vladareanu