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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 (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 than 60 research projects. 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 - 2009, 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, Special Session Chair ICAMEchs Tokyo 2012, Luoyang 2013, Beijing 2015, Melbourne, Australia 2016, ICCMIT 2015 Praga, 2016, UKACC Control, Loughborough, 2014, UK.

CV - Luige Vladareanu

Studii:

Instituția	Perioada	Grade sau diplome obținute
1. Institutul Politehnic Bucuresti, Facultatea Electronica si Telecomunicatii	1972-1077	Inginer electronist
2. Curs de pedagogie si practica pedagogica	1974-1975	Certificat
3. Academia Romana	1996-1998	Doctor in electronica

Experiența profesională:

Instituția	Perioada	Funcția	Descriere
<i>Institutul de Mecanica Solidelr al Academiei Romane, Departament Robotica si Mecatronica</i>	2010-pana in prezent	Coordonator Departament	Activitate de cercetare fundamentala si aplicativa in robotica si mecatronica
<i>Institutul de Mecanica Solidelr al Academiei Romane, Departament Dinamica Sistemelor</i>	2009 – pana in prezent	Conducator de doctorat	Coordonare doctorat in Stiinte Ingineresti
<i>Autoritatea Nationala pentru Cercetare Stiintifica (ANCS), Unitatea Executiva de Finantare Invatamant Superior (UEFISCDI)</i>	2010-pana in prezent	Expert evaluator	<i>Consultanta, evaluare proiecte PN II</i>
<i>Institutul de Mecanica Solidelr al Academiei Romane, Departament Dinamica Sistemelor</i>	2005-pana in prezent	Cercetator Stiintific gradul I	Activitate de cercetare fundamentala si aplicativa in cotrolul in timp real in mecanica soldului, sisteme disipative energetice
<i>International Institute of Acoustics and Vibratio, AuburnUniversity</i>	2005-pana in prezent	Membru	Activitate cercetare in acustica si vibratii
<i>Ministerul Educatiei si Cercetarii, Unitatea Executiva pentru Finantarea Invatamantului Superior si al Cerctarii Siintifice Unversitare (UEFISCSU)</i>	2005 –2006	Expert evaluator, WG5	Expert evaluator grup lucru 5, proiect national ROST2007-2013
<i>Ministerul Educatiei si Cercetarii, Unitatea Executiva pentru Finantarea Invatamantului Superior si al Cerctarii Siintifice Unversitare (UEFISCSU),Comisia Stiinte Ingineresti</i>	01. 2003-12.2005	Membru Comisie Stiinte Ingineresti	Activitate in cadrul Comisiei de Stiinte Ingineresti CNCSIS
<i>Ministerul Educatiei si Cercetarii, Unitatea Executiva pentru</i>	2003-2010	Expert evaluator si	<i>Consultanta evaluare proiecte MEC/CNCSIS</i>

<i>Finantarea Invatamantului Superior si al Cercetarii Stiintifice Unversitare (UEFISCSU)</i>		consultanta	
Inginerie si Tehnologie Industriala VTC, Unitate de cercetare aplicativa	1991-2012	Director	<i>Activitate de cercetare aplicativa, proiectare/realizare automatizari complexe cu aplicatii industriale: robotica, centre de prelucrari mecanice, dispecerizare si monitorizare sisteme distribuite, etc</i>

Competențe în domeniul investițiilor:

Expert evaluator in programele CNCSIS tip A, AT din 2003-prezent;
 Expert evaluator program MEC - proiecte EXCELENTA din 2005-prezent;
 Membru Comisie Stiinte Ingineresti UEFISCDI;
 Expert evaluator si consultant UEFISCSU/UEFISCDI din 2003-prezent;
 Expert evaluator WG 5, proiect national ROST 2007-2013, pentru elaborare PNCDI 2007-2013;
 Expert- colaborator, POSDRU 2007-2013, Domeniul major de interventie: „Imbunatatirea Managementului Universitar”;

Domenii de competenta: mecatronica, controlul in timp real in mecanica solidului; controlul si comanda robotilor industriali; controlul sistemelor dinamice; controlul semiactiv al vibratiilor sistemelor mecanice, control semiactiv a sistemelor cu disipatori magnetoreologici, sisteme multimicroprocesor pentru controlul robotilor, control hibrid pozitie-forta pentru roboti industriali, nano-micro manipulators; achizitia numerice a datelor fizice experimentale; dispecerizarea si monitorizarea prin transmisie la distanta a sistemelor de distributie; automatizari industriale cu automate programabile in structura descentralizata si distribuita; sisteme de achizitii de date pentru monitorizarea prin vibratii a utilajelor; stabilirea starii de uzura a organelor de mașini pe baza diagnozei prin vibratii; probleme dinamice in mecanica solidelor.

Alte specializări și calificări: Specializari in PLC soft/hard - 1998, 2001,2005 –ABB,Heidelberg, Germania; Specialzari in automatizari industriale -1997, 2003 – PROSYS,Ostrava, Cehia; Specializare în sisteme de dozare si cantarre -1994, 1996,Montpellier, Franta si 1998, Leon Engineering, Atena, Grecia.

Experiența acumulată (în special managerială) în alte programe/proiecte naționale/internaționale:

Programul/Proiectul	Funcția	Perioada	Bugetul administrat
FP7-PEOPLE-2012-IRSES, no. 318902, RABOT, parteneri UK, RO, China	Director/partener IMSAR	2012-2016	109200 Euro
PN-II-PT-PCCA-2013-4, ID2009, VIPRO project no. 009/2014	Director/coordonator proiect	2013-2016	1.420.850 lei
PN-II-PT-PCCA-2013-4-1349, MASIM project no. 255/2014	Director/partener IMSAR	2013-2016	78.000 lei
CNCSIS, Program Cercetari	Director/coordonator	2007-	995.000 lei

ExporatoriiProiect HFPC MERO, ID0005 ctr. 263/2007	proiect	2010	
AMCSIT,, Program INOVARE, Proiect AUTMPG, ID 1250, ctr. 127/2007	Director/coordonator proiect	2007-2010	2.763.000 lei
CNMP, Parteneriate in domenii prioritare, Proiect EXPCVT, ctr. 72209/2009	Director/partener IMSAR	2008-2011	52.200 lei
PN II, Program INOVARE, AMCSIT, Proiect AUTOCAPRINI, ID 1121, ctr. 11/2007	Director/partener IMSAR	2007-2010	200.000 lei
CNMP, Parteneriate in Domeniile Prioritare, Proiect SAHA, nr. 81-036/2007-2010,	Director/partener VTC	2007-2010	170.000 lei
Grant CEEX 2006, AMTRANS, cod X2C22	Responsabil proiect IMSAR	2006-2008	98.050 lei
CNCSIS 2003, Roboti, Grant 127/2003 - 2004	Director/cordonator proiect	2003-2004	387.500 mii lei
A.N.S.T.I.: PNCDI, RELANSIN 2002, Proiect Flotatie, contract 1713/2002	Responsabil proiect IMSAR	2002-2005	150.000 mii lei
MENER 2001, contract 020/2001	Responsabi proiect IMSAR	2001-2004	1.000.000 mii lei
MENER 2001, contract 002/2001	Responsabil proiect IMSAR	2001-2004	1.000.000 mii lei
A.N.S.T.I.: PNCDI, RELANSIN 2000, Mini FNC, contract 1266/2000	Responsabil proiect IMSAR	2000-2003	22.500 mii lei
A.N.S.T.I.: PNCDI, RELANSIN 2000, Proiect Dispecerizare Apa, cntr. 861/2000	Director/cordonator proiect	2000-2003	1.203.000 mii lei
ORIZONT 2000, GR536/99 TEMA B1	Director/cordonator proiect	1999-2000	15.000 mii lei
A.N.S.T.I.: PNCDI, RELANSIN 1999, Proiect CPM, contract 115/99	Director/cordonator proiect	1999-2001	1.207.000 mii lei

Alte mențiuni:

Lucrări elaborate și / sau publicate - peste 250 articole de cercetare stiintifica publicate in reviste ISI, proceedings ISI, reviste BDI, conferinte internationale/nationale.

Invenții OSIM si EPO: 17

Membru al asociațiilor profesionale:

- **Premiul Academiei Romane "Traian Vuia"** pentru articole stiintifice publicate in controlul in timp real in mecanica solidelor.
- **Diploma de excelenta in cercetare** 2000, SIR 2000 , Guvernul Romaniei, Agentia Nationala pentru Stiinta, Tehnologie si Inovare.
- **Premii nationale/internationale si medalii de aur** la competitii de renume cu evaluatori internationali : 10 premii cu **Medalie de aur la Salonul Mondial de la Geneva 2007-2015**, alte 39 Medalii de aur sau Premii internationale (Geneva 2007-2015; INNOVA ENERGY- Bruxelles-2007-2012; 2014;2015;ARCA-Zagreb-2008,2009,2011; Moscova 2011, INVENTIKA, Bucuresti-2007,2008, 2009,2010).
- **Participari la peste 100 conferinte/congrese internationale in ultimii 5 ani;** partener si colaborator in peste 30 proiecte din programe nationale/internationale de cercetare, din care unul

din programele CD europene.

- **Membru al comisiei de Stiinte Ingineresti al Consilului National de Cercetare Stiintifica (CNCSIS), 2003-2005;** evaluator a peste 150 proiecte din programul national CNCSIS 2003 si pana in prezent; evaluator in programele de PNCD PNII, CEEX; monitorizare, evaluare si validare a peste 200 proiecte din PNCDI;
- **Membru IIAV, International Institute of Acoustics and Vibration, Auburn University, din 2004**
- **Member of the World Scientific and Engineering Academy Society (WSEAS), din 2005**
- **Membru AMSE – France (International Association for Modelling and Simulation Techniques in Enterprises) din 2004**
- **Membru al Asociatiei de Robotica din Romania – ARR (din 1991);**
- **Membru al Asociatiei Romane de Tribologie – ART (din 1990)**
- **Membru al Asociatiei Internationale DIGITAL (din 1995)**
- **Presedintele comisiei de evaluare a Centrului de Automatizari si Informatica Tehnica din Universitatea Tehnica “Gh.Asachi”.**
- **Vicepresedinte al Societatii de Robotica din Romania, Filiala Bucuresti**
- **Editor a 34 carti de cercetare stiintifica cotate ISI, chairman a 15 conferinte internationale.**
- **Profesor invitat la Staffordshire University (2008) , Universidad Autónoma Metropolitana-Azcapotzalco (2009), Mexico City, Academy China of Science-Institute of Automation from Shenyang (2010), Shanghai University (2011,2015) and Guangdong University (2012,2015), CAS University (Beijing – 2013, 2015), Jiliang University (2014) , Yanshan University (2014,2015).**

Declar pe proprie răspundere că datele prezentate sunt în conformitate cu realitatea.

**Data completării:
15.08.2016**

**Cercetator stiintific gr. I,
Prof. dr. ing. Luige Vladareanu**

