

Curriculum Vitae

PERSONAL INFORMATION

Istrate Dumitru-Marcel

- Nicolae Negură Str., No. 14, Iaşi, Romania
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- mistratel@tuiasi.ro
- www.ee.tuiasi.ro

Sex Male | Date of birth 05/09/1960 | Nationality Romanian

JOB APPLIED FOR POSITION

Doctoral School of the Electrical Engineering Faculty of "Gheorghe Asachi" Technical University of Iași, Romania

WORK EXPERIENCE

2001 - present Professor

"Gheorghe Asachi" Technical University of Iasi, D. Mangeron Str., No.67., Iasi, 700050, Romania (<u>www.tuiasi.ro</u>)

- Doctoral studies supervisor in the field of Power Engineering: 3 theses; 10 Ph.D. students
- Higher education and research in power engineering; reading courses such as: "High Voltage Engineering", "Transient Regimes", "Clean Technologies", "Pollution Control of Power Plants"

Business or sector Higher education and research

1997 – 2001 Associate Professor

"Gheorghe Asachi" Technical University of Iasi, D. Mangeron Str., No.67., Iasi, 700050, Romania (www.tuiasi.ro)

 Higher education and research in power engineering; reading courses such as: "High Voltage Engineering", "Clean Technologies", "Pollution Control of Power Plants", "Electrical Security"

Business or sector Higher education and research

1991 – 1997 Assistant Professor

"Gheorghe Asachi" Technical University of Iasi, D. Mangeron Str., No.67., Iasi, 700050, Romania (<u>www.tuiasi.ro</u>)

 Higher education and research in power engineering; reading courses such as: "Overvoltages and Insulation of Electrical Installations", "Electrical Security"

Business or sector Higher education and research

1988 – 1991 Assistant

"Gheorghe Asachi" Technical University of Iasi, D. Mangeron Str., No.67., Iasi, 700050, Romania (<u>www.tuiasi.ro</u>)

 Higher education and research in power engineering; laboratory for "High Voltage Engineering", "Computer Programming"

Business or sector Higher education and research

1984 - 1985 Field engineer

Intreprinderea de Execuție și Exploatare a Lucrărilor de Îmbunătățiri Funciare Vaslui, Str. Traian, Vaslui, România

 Design and mounting installations of pumping substations maintenance and automations; Design, operation and maintenance of electrical grids and equipment of low voltage; Operation and maintenance of electrical equipment in the building materials industry.

Business or sector Energy



Master Diploma in "Management and legislation in industry, administration and services " "Gheorghe Asachi" Technical University of Iasi, D. Mangeron Str., No.67., Iasi, 700050, Romania				
 General Management, Management of human resources, Management of career, Legislation in the business, Law in the European Union Postgraduate diploma in Energy Audits 				
"Gheorghe Asachi"	Technical University	of lasi, D. Mangero	n Str., No.67., Iasi, 70	00050, Romania
 Energy management systems for industrial customers and electric utilities. Specialization in "Pollution Controll of the Power Plants" Universidad de Valladolid, Spain 				
 Pollution control technologies of the power plants firing coal Doctor of Philosophy in Power engineering 				
 PHd thesis: Contributions to the insulation coordination of the electrical grids with compact lines Master in Electrical engineering "Gheorghe Asachi" Polytechnical Institute of lasi (University) 				
Electrical Engineering, Power Systems Engineering High school Diploma				
 High School 		0		
Romanian				
UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
C2- Proficient user	C2- Proficient user	B1- Independent user	B1- Independent user	C2- Proficient user
B2- Independent user	B2- Independent user	B1- Independent user	B2- Independent user	B2- Independent user
 Good competences in teamwork gained through my experience related to leading or participating in national and international research teams. 				
		nvironments gained	through my educatic	nal and work
			is an educator as we	ll as an faculty
 leadership (currently, I am Vice Rector of "Gheorghe Asachi" Technical University of Iasi, Romania, after four year as Dean of the Electrical Engineering Faculty, and after eight years as deputy dean of the same Faculty) good experience in project management - director of 18 grants and complex research projects with partners from power industry good experience in organizing activities in quality assurance in higher education; ARACIS expert - 12 missions for the evaluation of different study programs. member of the National Register of Expert Evaluators for evaluation and financing of scientific projects CALIST (2004), CNCSIS (2004-2008). 				
	administration an "Gheorghe Asachi" T - General Manageme business, Law in the Postgraduate di "Gheorghe Asachi" - Energy manageme Specialization in Universidad de Vall - Pollution control tec Doctor of Philos "Gheorghe Asachi" - PHd thesis: Contrib Master in Electri "Gheorghe Asachi" - Electrical Engineerii High school Dip "Emil Racoviță" Co - High School Romanian UNDERST Listening C2- Proficient user B2- Independent user - Good competences national and internat - Good communication manager (8 years as Do the same Faculty)	administration and services " "Gheorghe Asachi" Technical University of General Management, Management of business, Law in the European Union Postgraduate diploma in Energy "Gheorghe Asachi" Technical University Energy management systems for indust Specialization in "Pollution Contr Universidad de Valladolid, Spain Pollution control technologies of the pow Doctor of Philosophy in Power e "Gheorghe Asachi" Technical University PHd thesis: Contributions to the insulation Master in Electrical engineering "Gheorghe Asachi" Polytechnical Institu Electrical Engineering, Power Systems I High school Diploma "Emil Racoviță" Colege, Iași, Aleea Nice High School Romanian UNDERSTANDING Listening Reading C2- Proficient user C2- Proficient user B2- Independent B2- Independent user Good competences in teamwork gained national and international research teams Good abilities to adapt to multicultural er experience abroad (France and Spain). Good communication skills gained throu manager (8 years as deputy dean and 4 Verseare Spain (2) am Vice Rector o after four year as Dean of the Electrical I the same Faculty)	administration and services " "Gheorghe Asachi" Technical University of lasi, D. Mangeror • General Management, Management of human resources, M business, Law in the European Union Postgraduate diploma in Energy Audits "Gheorghe Asachi" Technical University of lasi, D. Mangeror • Energy management systems for industrial customers and e Specialization in "Pollution Controll of the Power Universidad de Valladolid, Spain • Pollution control technologies of the power plants firing coal Doctor of Philosophy in Power engineering "Gheorghe Asachi" Technical University of lasi, D. Mangero • PHd thesis: Contributions to the insulation coordination of th Master in Electrical engineering "Gheorghe Asachi" Polytechnical Institute of lasi (University • Electrical Engineering, Power Systems Engineering High school Diploma "Emil Racoviță" Colege, lași, Aleea Nicolina, 3, 700220 • High School Romanian UNDERSTANDING C2- Proficient user C2- Proficient user B2- Independent user • Good competences in teamwork gained through my experience ational and international research teams. • Good abilities to adapt to multicultural environments gained experience abroad (France and Spain). • Good communication skills gained through my experience at manager (8 years as deputy dean and 4 years as dean) • leadership (currently, I am Vice Rector of "Gheorghe Asachi" after four year as Dean of the Electrical Engineering Faculty, the same Faculty)	administration and services " ,Gheorghe Asachi" Technical University of Iasi, D. Mangeron Str., No.67., Iasi, 70 • General Management, Management of human resources, Management of carea business, Law in the European Union Postgraduate diploma in Energy Audits ,Gheorghe Asachi" Technical University of Iasi, D. Mangeron Str., No.67., Iasi, 70 • Energy management systems for industrial customers and electric utilities. Specialization in "Pollution Controll of the Power Plants" Universidad de Valladolid, Spain • Pollution control technologies of the power plants firing coal Doctor of Philosophy in Power engineering ,Gheorghe Asachi" Technical University of Iasi, D. Mangeron Str., No.67., Iasi, 7 • Energy management systems for industrial customers and electric aligids with Master in Electrical engineering ,Gheorghe Asachi" Technical University of Iasi, D. Mangeron Str., No.67., Iasi, 7 • PHd thesis: Contributions to the insulation coordination of the electrical grids with Master in Electrical engineering ,Gheorghe Asachi" Polytechnical Institute of Iasi (University) • Electrical Engineering, Power Systems Engineering High school Diploma "Emil Racoviță" Colege, Iaşi, Aleea Nicolina, 3, 700220 • High School Komanian UNDERSTANDING UNDERSTANDING UNDERSTANDING UNDERSTANDING UNDERSTANDING UNDERSTANDING USE C2- Proficient user C2- Proficient user B1- Independent USEr User B2- Independent B2- Independent USEr B1- Independent B2- Independent USEr B1- Independent USEr B2- Independent USEr B2- Independent USER Good competences in teamwork gained through my experience related to leadir national and international research teams. Good abilities to adapt to multicultural environments gained through my educatio experience abroad (France and Spain). Good communication skills gained through my experience as an educator as we manager (8 years as deputy dean and 4 years as dean) eleadership (currently, I am Vice Rector of "Gheorghe Asachi" Technical University after four year as Dean of the Electrical Engineering Faculty, and after



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Job-related skills	 Good command of using modern technologies in education. I am reading courses and working with students in the following technical directions: High Voltage Engineering, Electrical Security, Transient Regimes, Clean Technologies, Pollution Control of the Power Plants.
	 good command of professional knowledge in areas of scientific research: Protection against transient overvoltages, Protection against lightning strokes, Renewable electricity and Distributed generation, Fault location on transmission overhead lines, Distribution grids" observability and controllability, Coordination of impedance protection of power lines.
	 I was manager or member of the research team in 56 research projects, among which 3 national research grants, and 15 complex research projects financed by power industry.
	 good knowledge of quality control procedures (as Vice Rector of the University, as Dean of a Faculty and as a member of the Administration Council of our University).
	 skills in evaluating scientific research projects within national research and development programs coordinated by CNCSIS, ANCS etc.
	 skills in the peer-review of scientific papers as a member of the scientific board of some journals as are the followings: Environmental Engineering and Management Journal, ISSN 1582-9596; Balkan Journal of Electrical & Computer Engineering; Buletinul Academiei Mircea cel Bătrân din Constanța; Analele Universității din Craiova, Seria Inginerie electrică

Computer skills

- Good command of MS Office Tools (Word, Excel, Power Point, Access),
 - Good command of programming languages as Delphi,
 - Good command for specialized software applications for power systems analysis (ATP-EMPT).

ADDITIONAL INFORMATION

Publications

- 13 books and book chapters in recognized publishing houses and university courses, of which 5 as first or single author.
 - 34 papers published in ISI journals and other journals indexed by international databases, of which 7 as first author.
 - 39 papers indexed in ISI Proceedings and other international databases, of which 8 as first author.
 - 49 papers in journals recognized by CNCSIS, of which 18 as first author.
 - 39 papers in proceedings of international scientific conferences, of which 13 as first author.
 - 20 papers in proceedings of national scientific conferences, of which 9 as first author.
 - 17 patents, all in the database Derwent Innovations, of which 4 as first author.
 - 8 national grants, of which 3 as director, 1 as partner responsible and 3 as member of the research team) and 46 research contracts with companies, and operators in the domain of electrical transmission and distribution grids, of which 15 as director and 31 as a member of the research team. Many of these research project with industrial partners were gained through national competition organised by the companies.

Significant publications

- Istrate M., Electrical Security (Electrosecuritate), Editura Editura Tehnică, științifică și didactică CERMI (cod CNCSIS 181), Iași, 384 pag., ISBN 978-973-667-274-3, 2007
- Istrate M., Pollution Control of the Power Plants (Tehnologii şi instalaţii pentru reducerea emisiilor poluante – Controlul poluării în termoenergetică), Editura SETIS, Iaşi, cod CNCSIS 279, 428 pag, ISBN 973-86764-0-1, 2004.
- Istrate M., Gusa M., Assessment Of Two Single-End Fault Location Algorithms In An ATP Approach, Revue Roumaine de Sciences Techniques – Électrotechique et Énergétique, Tome 54, 4, pp. 345-354, ISSN: 0035-4066, (http://revue.elth.ro/index.php?action=details&id=194)
- Istrate, M., Miron, A., Istrate, C., Gusa, M., Machidon, D., Single-phased Fault Location on Transmission Lines Using Unsynchronized Voltages, Advances in Electrical and Computer Engineering, Issue 3, 2009, pages 51-56, ISSN: 1582-7445, e-ISSN: 1844-7600, Digital Object Identifier: 10.4316/AECE.2009.03010,http://www.aece.ro/index.php (http://www.aece.ro/abstractplus.php?year=2009&number=3&article=10)
- Istrate M., Grigoraş Gh., Energy Consumption Estimation in Water Distribution Systems Using Fuzzy Techniqus, Environmental Engineering and management Journal, Vol. 9, No.2, pp.249-256, February 2010. ISSN 1582-9596,http://omicron.ch.tuiasi.ro/EEMJ/.



- Publications
 Machidon D. Istrate M., A new model based on electrogeometrical theory for estimating the lightning protection zones, Published in Advanced Topics in Electrical Engineering (ATEE), 2013 8th International Symposium, May, Bucharest, pp.1-5, Print ISBN: 978-1-4673-5979-5, Digital Object Identifier : 10.1109/ATEE.2013.6563470 http://ieeexplore.ieee.org/xpl/articleDetails.jsp?tp=&arnumber=6563470&queryText%3Dmachidon.
 - Istrate M., Guşă M., Asaftei C., Gavrilaş N., Three phased Device for Local and Remote Signalizing (Dispozitiv trifazat de semnalizare locală şi la distanţă), Brevet România nr. 104650/1991, International Patent Classification H02H-007/26, http://apps.isiknowledge.com.
- Presentations
 Plenary speaker la 11th WSEAS International Conference on Mathematical Methods and Computational Techniques in Electrical Engineering (MMACTEE '10), October 21-23, 2010, Timisoara, Romania.
 - Invited Professor: courses of "Pollution Control of the Power Plants" Technical University of Moldova Republic, Power Engineering Faculty, 2007, 2008.
 - Projects
 Software tool for the increase of power systems' security through impedance protection coordination, developed on basis of artificial intelligence techniques (Instrument software destinat creşterii securității sistemelor electroenergetice prin coordonarea protecției de distanță, dezvoltat pe baza unor tehnici de inteligență artificială). Grant CNCSIS, A, contract nr. GR 77/11.06.2008, tema nr. 20, cod CNCSIS 283 (Director).
 - Intelligent prediction and control of congestion in transmission and high voltage distribution systems (Sistem inteligent de predicţie şi control al congestiilor în reţelele de transport şi distribuţie la înaltă tensiune), Grant PN2-Parteneriate, contract 22-126 / 2008, Director proiect: Mihai Gavrilaş, Istrate M.- Responsible of the TUIASI partner.
 - Study an the protection against lightning strokes for a Romanian National Power Grid Substation using the Rolling Sphere Method (Studiu privind verificarea schemelor de protecţie împotriva loviturilor directe de trăsnet în cazul staţiei 220/110/20 kV Munteni. Analiză comparată a metodei normate şi a metodei electrogeometrice"), cod CPV 71335000-5; Transelectrica - Romanian National Power Grid Operator, Bacau Subsidiary, 2013, tema 8795/17.05.2013 (Director).
 - Software tool designed to the analisys of the transients induced by the false operation of some protections in power transmission grids (Aplicație software pentru analiza regimurilor electromagnetice tranzitorii generate de funcționarea unor protecții şi instalații automate din RET 220/400 kV). Transelectrica - Romanian National Power Grid Operator, Bacau Subsidiary (Director)
 - Research on the opportunity of arrester installation on overhead lines (Cercetări privind oportunitatea instalării de descărcătore cu rezistență variabilă pe liniile electrice aeriene); Grant CNCSIS, contract 2741/ 19.05.2006, tema 40, cod CNCSIS 483, (Member of the research team)
- Other skills (as conferences organiser or member in committees)
- Member in the International Program Committee of conferences as are the following: Electrical and Power Engineering EPE 2004, EPE 2006, EPE 2008, EPE 2010; EPE 2012; International Symposium of Electromechanical an Power Engineering SIELMEN 2005; SIELMEN 2007; SIELMEN 2009; World Energy System Conference WESC 2008; International Conference on Optimization of Electrical and Electronic Equipment OPTIM 2014, OPTIM 2015; IC-SPETO 2015; International Conference on Environment and Electrical Engineering EEEIC 2011, EEEIC 2012, EEEIC 2013, EEEIC 2014, EEEIC 2015; World Renewable Energy Congress WREC 2015; CIEM 2015.
 - Conference Chairman: The 5th International Conference on Electromechanical and Power Systems, SIELMEN 2005 şi The 7th International Conference on Electromechanical and Power Systems, SIELMEN 2009; The 5th International Conference on Electrical and Power Engineering, EPE 2008; The 2008 International World Energy System (WES) Conference. The 7th National Conference On Industrial Energetics, CNEI 2009; 9th WSEAS International Conference on Electric Power Systems, High Voltages, Electric Machines (POWER'09); 12th WSEAS International Conference on Mathematical Methods and Computational Techniques in Electrical Engineering (MMACTEE '10); General chair - The 7th International Conference on Electrical and Power Engineering, EPE 2014
 - Honours and awards Gold M
 - Gold Medal at the International Exhibition of Patents EUREKA `94, Bruxelles, 1994

Memberships

Member of CIGRE Paris and of the Romanian National Committee of CIGRE Member of the Romanian National Committee of the World Energy Council

March 2018

