

Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) Ghita / Octavian Mihai
Address(es) Bucharest, Romania
Telephone(s) Mobile:
Fax(es)
E-mail octavian.ghita@upb.ro
Nationality romanian
Date of birth 11.07.1973
Gender male

Desired employment / Occupational field Politehnica University of Bucharest / associate professor

Work experience

Dates 1997-present Politehnica University of Bucharest Electrical Engineering Faculty
 Electrical Measurements and apparatus Dept.
Occupation or position held 2007 –present associate professor
 2002-2007 lecturer
 1997-2002 teaching assistant
Main activities and responsibilities Teaching / research
Name and address of employer Politehnica University of Bucharest Spl. Independentei nr. 313
Type of business or sector educational

Education and training

Dates 2003 / 6 luni
Title of qualification awarded Post-PhD
Principal subjects/occupational skills covered Energy Quality
Name and type of organisation providing education and training Aalborg University
Level in national or international classification CISE level 6 domain 52
Dates 1997 - 2001
Title of qualification awarded PhD in Electrical engineering
Principal subjects/occupational skills covered Electrical Measurements
Name and type of organisation providing education and training Politehnica University of Bucharest
Dates CISE level 6 domain 52
 2001 – 2 weeks

Title of qualification awarded Siemens programming atestat
 Principal subjects/occupational skills covered Programmable logic controllers
 Name and type of organisation providing education and training SIDAT S.A. Siemens Ltd. Praga Cehia
 Level in national or international classification
 Dates 1998-1999 / 12 months

Title of qualification awarded PhD stage
 Principal subjects/occupational skills covered Renewable energies
 Name and type of organisation providing education and training Centro Richerche FIAT Torino Italia
 Level in national or international classification
 Dates 1996 - 1997

Title of qualification awarded Master engineer
 Principal subjects/occupational skills covered Optimal control of electric drives
 Name and type of organisation providing education and training Politehnica University of Bucharest
 Level in national or international classification CISE level 5 domain 52
 Dates 1991 - 1996

Title of qualification awarded Bachelor in Electrical Engineering

Principal subjects/occupational skills covered

Name and type of organisation providing education and training Politehnica University of Bucharest
 Level in national or international classification CISE level 5 domain 52
European level ()*

Romanian

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Experienced user	C1	Experienced user	C1	Experienced user	C1	Experienced user	C1	Experienced user
B1	Independent user	C1	Experienced user	C1	Experienced user	B1	Independent user	B1	Independent user
C1	Experienced user	C1	Experienced user	C1	Experienced user	C1	Experienced user	B1	Independent user

(*) [Common European Framework of Reference for Languages](http://www.cedefop.europa.eu/en/files/quest_doc/2003/031003en0100.pdf)

Social skills and competences Team work experience due to research contracts in which I was involved

Organisational skills and competences Project manager for several research projects
 Organization and coordination of several working groups and research teams

Technical skills and competences	Competences in: Electrical Measurements and Virtual Instrumentation, Electrical Drives, Data transmission Energy Quality
Computer skills and competences	High level of PC use: Microsoft Office LabView, Matlab, Spice, ORCAD, AutoCAD, Visual Basic, SQL, C++
Artistic skills and competences	Solid history knowledge
Other skills and competences	AutoCAD Instructor Level 1
Driving licence	no
Additional information	Executive Director of Research CMIM - UPB IEEE Member: Measurement & Virtual Instrumentation section
Annexes	List of papers
Date	October 2011

List of papers

PhD Thesis: *Studiul unor metode de măsurare în regim dinamic pentru mărimi mecanice (The study of dynamic regime measurement methods for mechanical quantities)*

Research projects – Project manager / Project Director / Project responsible

1. CEEX research grant, won through public competition, No. 103, P1/103.10.2005, UPB-ECEE „Cercetări multidisciplinare privind modelul teoretic și experimental al unei centrale ecologice bazate pe energia valurilor marine” (**Project director**);
2. Research grant "Cercetari privind măsurarea in regim dinamic a cuplului electromagnetic la masinile electrice", Nr. 5076, ANSTI, 2000 – 2001 (**Project director**)
3. Research contract IMPACT „Optimizarea consumului energetic si cresterea fiabilitatii statiilor de pompare utilizate in irigatii prin dezvoltarea si transferul tehnologic a unui sistem numeric de actionare a motoarelor” (**Project director**)
4. Research contract PNCDI 2 Inovare 55/2007 „Cabina de comanda pentru monitorizarea si controlul proceselor de foraj sau industriale cu grad ridicat de risc” (**Scientific responsible UPB**)
5. Research contract CEEX, Nr. 168/20.07.2006, UPB-ECEE „Cercetări privind interconectarea subansamblelor unui sistem de conversie eolian – electrică a energiei, în scopul creșterii eficienței, pentru o aplicație specifică” (**Scientific responsible UPB**).
6. Research contract PNCDI2 Inovare „Echipament pentru monitorizarea complexa a statiilor electrice de inalta tensiune – EMCSIT” 144/2008 (**Scientific responsible UPB**)

Research projects – team researcher

1. Research contract CEEX Nr. 239/20.07.2006 „ Advanced autonomous systems to produce electricity and heat using biogas as an alternative source”.
2. Research contract RELANSIN, Nr. 1937 / 2004 “Modernization of electrochemical coatings line for decorative protective diversification characteristics of zinc coatings by passivating chemical / electrochemical using electrolytes with minimum environmental impact”, 2006.
3. Research contract AMTRANS Nr. 2C05/P2 din 2002, „ Study of a drive and control system for low speed cars with ecological capacity”, 2002 – 2004.
4. Research contract “Modernization and restructuring of the educational process of UPB”, nr 236 – CNFIS, 2001 – 2003.
5. Research contract CALIST „ Evaluation system of education quality in Romania”, nr. 3504/2002, 2002 – 2005.
6. Research contract „ Reactive power compensation plants in three-phase asynchronous electric networks” 2000 - 2002 financing source MEC.
7. Research contract "A study of compensation systems in real time reactive power in three-phase asynchronous motors networks on electric locomotives with numerical adjustment for capacity of capacitor banks", 1999 – 2001, financing source MCT.
8. Research contract „ Researches on automated systems to determine experimental and numerical processing of electrical equipment operating characteristics”, 1998 - 1999 financing source MCT.

9. Research contract: „ Study of the metrological characteristics for newer signal processing converts for the power systems “, theme B17-grant ANSTI, 1999 – 2001.

10. Research contract CEEX 101/2005: „ Determining the strategic reserve of water reservoirs with telematic methods and analysis of the degree of clogging”.

11. Research contract CEEX 196/2006: „ Intelligent decision-making techniques to manage power flow in electricity transmission networks”

12. Research contract PNCDI2 21050/2007 „ Analysis of the impact of coupling distributed network of renewable energy generators using an expert system for power quality monitoring”

13. Research contract PNCDI 2 Innovation program 144/2008 : „ Complex monitoring equipment for high voltage electric stations”

14. Research contract PNCDI 2 Innovation program 179/2008: “Computerized integrated for supply and protection for plant automation and remote operation of transformer stations and electricity distribution networks”

15. Research contract PNCDI 2 Innovation program 106/2007:” **Electric generator with alternative power solutions destined for isolated drilling platforms”.**

Books:

1. **GHIȚĂ, O. M.**, CEPIȘCĂ, C., *Măsurarea mărimilor electrice*, Ed. Matrix Rom. București, 2007, 176 pag.

2. **GHIȚĂ, O. M.** *Comunicații în sisteme distribuite*, Ed. Matrix Rom, București, 2006, 180 pg. ISBN (10) 973-755-063-3

3. Grigorescu, S., Cepișcă, C., Vlaicu C., **GHIȚĂ O.M.**, Oancea, D., Trușcă, B., “*Proiectarea și simularea circuitelor electronice cu amplificatoare operaționale*”. Editura ICPE, București 2001, 220 pg. ISBN 973-8067-33-2

4. Grigorescu, S., **GHIȚĂ O.M.**, Neacsu, P. *Instrumentatie virtuala si distribuita*” Editura Electra Bucuresti 2007, 210 pag. ISBN (13) 978-973-7728-63-0

ISI Thompson-Reuters papers:

1. **GHIȚĂ, O. M.**, *Metodă de măsurare a potențialului de suprafață a membranei de teflon pentru microfoanele cu electreți*, Revista de Chimie, Vol. 57, Nr. 1, 2006, p 48 – 51. ISSN 0034 -7752

2. **GHIȚĂ, O. M.**, *Comportarea electreților în condiții climatice grele și estimarea duratei lor de viață*, Revista de Chimie, Vol. 58, Nr.3, p. 364 – 367 ISSN 0034 -7752

3. **GHIȚĂ, O. M.**, SCHUSTER, H. G., *Studiul naturii adezivilor utilizați în tehnologii de fixare a traductoarelor tensometrice rezistive – TTR*, Revista de Chimie, Vol. 58, nr. 7/2007, pag.620 ISSN 0034 -7752

4. **O. M. GHIȚĂ**, S. D. GRIGORESCU “*Measurement of Teflon membrane characteristics used for electret microphones*” Revista de chimie, , Vol. 61. Nr.1 ianuarie 2010 ISSN 0034 -7752

5. S.D.GRIGORESCU, C. CEPISCA, **O.M. GHITA** I. POTARNICHE *Intelligent Control System for Monitoring Drilling Process* in 7th WSEAS Int.Conf. on COMPUTATIONAL INTELLIGENCE, MAN-MACHINE SYSTEMS and CYBERNETICS (CIMMACS '08) Cairo 2008 ISBN: 978-960-474-049-9

6. S.D. GRIGORESCU, C. CEPISCA, **O.M. GHITA**, M. Covrig, *GPS Oriented System for Evaluation of Energetic Potential of Hydroelectric Dam Lakes* Proceedings of the 4th IASME / WSEAS Int. Conference on WATER RESOURCES, HYDRAULICS & HYDROLOGY (WHH'09) Cambridge 2009 ISBN: 978-960-474-057-4

7. S. D. Grigorescu, C. Cepisca, I. Potarniche, O. M. Ghita, M. Covrig, E. Grigorescu, *Numerical Simulations for Energy Calculation in Power Measurements* EUROPEAN COMPUTING CONFERENCE WSEAS (ECC'09) Tbilisi 2009 ISBN: 978-960-474-088-8

8. Sorin Dan Grigorescu, Ion Potarniche, Costin Cepisca, **Octavian Mihai Ghita**, Mircea Covrig, *Computer Added Monitoring of Drilling Rig Systems* EUROPEAN COMPUTING CONFERENCE WSEAS (ECC'09) Tbilisi 2009 ISBN: 978-960-474-088-8

9. S. D. Grigorescu, M. Popescu, **O. M. Ghita**, G. C. Lazaroiu *System monitoring energy quality for wind power generators* in 14th IEEE INTERNATIONAL CONFERENCE ON HARMONICS AND QUALITY OF POWER Bergamo 2010 ISBN: 978-1-4244-7245-1

10. Lazaroiu, G.C.; Tironi, E.; Popescu, M.O. ; **Ghita, O M.**; Dumbrava, V.; “*Transient analysis of DG interfaced low voltage d.c. system*”, in 14th IEEE INTERNATIONAL CONFERENCE ON HARMONICS AND QUALITY OF POWER Bergamo 2010 ISBN: 978-1-4244-7245-1

11. S.D. Grigorescu, I. Potarniche, **O.M. Ghita**, M. Covrig „*Measurement Data Analyses Using An Expert System For Oil-Paper Insulation Evaluation*” 2011 IEEE International Instrumentation and Measurement Technology Conference I2MTC Hangzhou China

12. S.D. Grigorescu, I. Potarniche, **O.M. Ghita**, M. Covrig, „*Computer Added Monitoring of Drilling Rig Systems*” 2011 IEEE International Instrumentation and Measurement Technology Conference I2MTC Hangzhou China

CNCSIS reviewed articles:

1. **GHIȚĂ, O. M.**, KANOVITS, C., *Implementing an alert system for water floods taking into account sustainable development*, Bull. Univ. Politehnica din Bucureșt, Vol. 68, Seria C, Nr.1, 2006, pg. 75 - 84.

2. **GHIȚĂ, O. M.**, *Calculul erorilor de amplitudine și de fază la transformatoarele de curent*, EEA Electrotehnica, 54, Nr.3, 2006, pg. 45 – 48.

3. **GHIȚĂ, O. M.**, SAMFIROIU D., *Nelinariități ale convertoarelor analog-numerice și numeric-analogice utilizate în măsurările electrice*, EEA Electrotehnica, 54, Nr. 2, 2006, pg. 22 – 27.

4. **GHIȚĂ, O. M.**, *Fenomene specifice în măsurările cu traductoare tensometrice rezistive – TTR*, EEA Electrotehnica, 53, Nr.4, 2005, pg. 23 – 30.

5. **GHIȚĂ, O. M.**, *Influența histerezisului mecanic asupra sensibilității traductoarelor tensometrice metalice*, EEA Electrotehnica, 53, Nr. 3, 2005, pg.50 - 54.

6. **GHIȚĂ, O. M.**, SIMION, V., PANTELIMON, B., *Tipuri de fibre optice utilizate în sisteme de măsură cu fibre optice*, Buletinul științific al Universității din Pitești, nr.1 pag. 174-179, Pitești 2001, Seria Metrologie, Sisteme de Măsurare.

7. S. GRIGORESCU, S. IONESCU, **O. GHITA**, I. GHITA - Evaluation of Energetic Potential of Hydroelectric Dam Lakes - INCD ECOIND – INTERNATIONAL SYMPOSIUM – SIMI 2009 - “The Environment And Industry”.

Articles in international reviews and conferences:

1. **GHITĂ, O. M.**, SAMFIROIU D., ROTAR, G., *New Method for Determining the Parameters of Low Frequency Harmonics in a Sample Electric Signal*, International Conference Scientific Computing in Electrical Engineering – SCEE 2006, 17 – 22 sept., Sinaia, ROMANIA, Vol. Mathematical and Computational Methods, pag. 133 – 135.
2. GHITA, C., ILINA, D.I., **GHITĂ, O.M.** “*Influence of the supply source frequency about Equivalent Scheme of the Three phase Induction motors*” International Symposium ATEE 2004 Politehnica University of Bucharest November 25, 2004 Bucharest Romania, section 3, Electrical Machines, paper no.11 ISBN: 973-7728-31-9
3. GHITA, C., ILINA, D.I., **GHITĂ, O.M.** “*The influence of non-symetric loads over the energetic parameter of electrical three phase transformers*” International Conference Energy – Environment CIEM – 2003, Bucharest Romania, 22-25 oct. 2003, vol.1, pg. 191-196.
4. GHITA, C., ILINA, D.I., **GHITĂ, O.M.** “*Making-off three phase voltage system using two single phase transformers*” International Conference Energy – Environment CIEM – 2003, Bucharest Romania, 22-25 oct. 2003, vol.1, pg. 197-202.
5. **GHITĂ, O.M.**, “*Determinarea parametrilor rotorici ai motorului asincron utilizand achizitia de date*” Simpozionul Internațional ‘Universitaria Ropet 2001’ pag. 98 – 101, Petrosani 2001
6. **GHITĂ, O. M.** «*Asupra metodelor de compensare a erorilor în schemele de măsurare cu traductoare tensometrice*, Simpozionul Internațional ROPET 2001, Petroșani, 18 – 20 oct 2001, Vol.1, pag. 102 - 104.
7. **GHITĂ, O.M.**, BANICA, C., SERITAN G., - “*Aspects concerning the construction of a high stability microphone using electrets*” - International Symposium „Advanced Topics in Electrical Engineering - ATEE’2000”, Politehnica University of Bucharest, Romania, 8 Dec. 2000, section Metrology, pag. 37 – 40.
8. **GHITĂ, O.M.**, STANCIU M., PETRE V., - “*Prediction of inertial moment and mechanical losses for a rotational system*” - International Symposium „Advanced Topics in Electrical Engineering - ATEE’2000”, Politehnica University of Bucharest, Romania, 8 Dec. 2000, section Metrology, pag. 41 - 44.
9. **GHITĂ, O.M.**, PANTELIMON B., SIMION, V. – “*Mechanical hysteresis cycle for strain gauges*” - International Symposium „Advanced Topics in Electrical Engineering - ATEE’2000”, Politehnica University of Bucharest, Romania, 8 Dec. 2000, section Metrology, pag. 45-49.
10. PETRE, V., STANCIU, M., ILIE, L., **GHITĂ, O.M.**, - “*Smart temperature transducer connected directly to computer*” - International Symposium „Advanced Topics in Electrical Engineering - ATEE’2000”, Politehnica University of Bucharest, Romania, 8 Dec. 2000, section Metrology, pag. 85-89.
11. SERITAN, G., BĂNICĂ, C., **GHITĂ, O.M.** – “*Errors source in electrical power and energy measurements*” - International Symposium „Advanced Topics in Electrical Engineering - ATEE’2000”, Politehnica University of Bucharest, Romania, 8 Dec. 2000, section Metrology, pag. 107
12. BANICA, C., **GHITĂ, O.M.**, SERITAN, G., *Optimal aquisition for ECG signal with real time processing*” - International Symposium „Advanced Topics in Electrical Engineering - ATEE’2000”, Politehnica University of Bucharest, Romania, 8 Dec. 2000, section Metrology, pag. 15
13. GHITA, C., **GHITĂ, O. M.**, GIURGEA, S.,-“*Măsurarea directa a cuplului electromagnetic la mașinile electrice*” Sielmec’99, Chișinău, 1999, vol III, pag.19 – 23
14. **GHITĂ, O.M.**, PANTELIMON, B. – “*Tehnologia de aplicare a marilor tensometrice pe suprafețele pieselor*” Sielmec’99 Chișinău, 1999, vol. III, pag.31 - 35
15. GHITA, C., SCHUSTER, H. G., VLAICU, C., **GHITĂ, O.M.**, “*Finding the Mechanical Characteristics of 3 - Phased Induction Motor Operating in Transitory State*, Proceedings of the International Conference on Power Electronics Drives and Motion Control”, PCIM’97, June 10 - 12, 1997, Nurnberg, Germania, Vol. Intelligent Motion, pag. 323 - 328.
16. GHITA, C., SCHUSTER, H. G., **GHITĂ, O.M.**, GHITA, Z., “*Short - Circuit/Overload Protection of Induction Motor using a Calorimetric Method*”, Proceedings of the International Conference on Power Electronics Drives and Motion Control”, PCIM’97, June 10 - 12, 1997, Nurnberg, Germania, Vol. Intelligent Motion, pag. 317 – 32.
17. GRIGORESCU, S.D., CEPISCA, C, **GHITA, M., O.**, ANGHELESCU, V., NEACSU, P. *Oil paper insulation evaluation using an expert system* In: Proceedings of Joint International Conference “Materials for Electrical Engineering”, Bucharest, Romania, 16-17 June, 2008, p.426-430, ISBN 978-606-521-028-8
18. TUDORACHE T., GRIGORESCU S.D., **GHITA O. M.** “*Evaluation of Energetic Potential of Romanian Hydroelectric Dams*” in Advanced Topics in Electrical Engineering - ATEE’2008”, Politehnica University of Bucharest, Romania
19. Grigorescu S.D., **Ghita O.M.**, Cepisca C., Ghita I., “*Design of power quality monitoring systems using Labview software tools*” in Advanced Topics in Electrical Engineering - ATEE’2008”, Politehnica University of Bucharest, Romania
20. GRIGORESCU S.D., TUDORACHE T., CEPISCA C., **GHITA O.M.**, GRIGORESCU E., “*Monitoring the volume of water in barrier lakes using GSP technology*” Advanced Topics in Electrical Engineering - ATEE’2008”, Politehnica University of Bucharest, Romania
21. D. Grigorescu, O. M. Ghita, M. Covrig, I. Potarniche, M. C. Gheamalinga: “*Labview Interface for Oil Drilling Rigs*” Proceedings of the 7-th International Simposium Advanced Topics in Electrical Engineering ATEE May 12-14 Bucharest 2011 ISSN 2068-7966
22. S. D. Grigorescu, O. M. Ghita, M. Covrig, I. Potarniche High Voltage Transformer Insulation Evaluation Using a Measurement Expert System Proceedings of the 7-th International Simposium Advanced Topics in Electrical Engineering ATEE May 12-14 Bucharest 2011 ISSN 2068-7966