



Europass Curriculum Vitae



Personal information

Surname(s) / First name(s) SCUTELNICU ELENA
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Nationality Romanian

Date of birth 16.12.1961

Gender Female

Occupational field Prof. PhD. eng.

Managerial experience

Dates 2000 - Onwards
Occupation or position held
- Vice-Dean of Faculty of Engineering (2014-2016)
- Vice-Dean of Faculty of Mechanical Engineering (2009-2014)
- Responsible of Quality Management in Faculty of Mechanical Engineering (2010-2012)
- Head of Robotics and Welding Department (2007-2009)
- Coordinator of Industrial Engineering Doctoral program within Engineering Doctoral School of "Dunarea de Jos" University of Galati (2013 Onwards)
- Editor-in-chief of *Annals of "Dunarea de Jos" University of Galati, Fascicle XII, Welding Equipment and Technology*, ISSN 1221-4639 (2007 Onwards)
Name and address of employer "Dunarea de Jos" University of Galati, 47 Domneasca Str., 800008 – Galati, Romania, www.ugal.ro
Type of business or sector Academic & editorial management in higher education

Work experience

Dates 1990 - Onwards: Employee of "Dunarea de Jos" University of Galati
Occupation or position held
- 2007 - Onwards: Professor PhD. eng., Faculty of Mechanical Engineering/Faculty of Engineering
- 2004 - 2007: Assoc. Professor PhD. eng., Faculty of Mechanical Engineering;
- 2004 - 2007: Assist. Prof. PhD. eng., Faculty of Mechanical Engineering;
- 1994 - 2004: Assist. Prof., Faculty of Mechanical Engineering;
- 1990 - 1994: Debuting Assistant, Faculty of Mechanical Engineering.
Main activities and responsibilities
- PhD Supervisor in *Industrial Engineering* field
- Teaching and research activities
- Member of the Senate of "Dunarea de Jos" University of Galati (2007-2012)
- Member of the Council of Mechanical Engineering Faculty/Faculty of Engineering (2004-onwards)
- Member of the University Scientific Council (2008-2012)
- Member in the Scientific Research & International Relations Commission of the University (2007-2012)

Name and address of employer	"Dunarea de Jos" University of Galati, 47 Domneasca Str., 800008 – Galati, Romania, www.ugal.ro
Type of business or sector	Higher Education
Dates	June 2008, June 2009, June 2010
Occupation or position held	Visiting Professor
Main activities and responsibilities	Lectures on: Special Welding Processes for Advanced Materials, Trends in Advanced Welding, Modelling and Simulation of Welding Processes
Name and address of employer	Centro Láser-Universidad Politécnica de Madrid, Ctra.de Valencia, km. 7,300, Campus Sur U.P.M., (Edificio "La Arboleda"), 28031 Madrid, http://www.upmlaser.upm.es
Type of business or sector	Higher Education
Dates	May - July 2004
Occupation or position held	Visiting Professor
Main activities and responsibilities	Lectures on: Modeling and Simulation of Industrial Processes
Name and address of employer	Universite de Rouen, L'Institute de Technologie Universitaire de Rouen; Rue Lavoisier – 76821 Mont Saint Aignan, France www.univ-rouen.fr
Type of business or sector	Higher Education
Dates	September 1989 – November 1990
Occupation or position held	Engineer
Main activities and responsibilities	Technologies design, Teaching activities
Name and address of employer	Construction Company, Galati, Romania
Type of business or sector	Industry
Dates	September 1985 – September 1989
Occupation or position held	Responsible engineer for the Numerically Controlled Machine Tools
Main activities and responsibilities	Export and production activities, Welding technologies design, Teaching activities
Name and address of employer	Machine Tools Company, Bacau, Romania
Type of business or sector	Industry
Education and training	
Dates	March – May 2008
Title of qualification awarded	Post-university studies diploma: Quality Management in Open Learning
Principal subjects/occupational skills covered	Open Learning Applied Informatics, Quality Management in Open Learning, Tutorial Procedures in Education, Didactics Materials Development in Open Learning, Distance Learning Administration and Organising.
Name and type of organisation providing education and training	Dunarea de Jos University of Galati, 47 Domneasca St., 800008-Galați, Romania Centre for Continuing Education and Technological Transfer – CFCTT
Level in national or international classification	Post-graduate
Dates	2002-2003
Title of qualification awarded	Post-university studies diploma: Distance Learning Didactics
Principal subjects/occupational skills covered	Distance Learning Applied Informatics, Didactics Materials Development, Distance Learning Organising, Training Systems using the Computer, Tutorial in Education
Name and type of organisation providing education and training	Dunarea de Jos University of Galati, 47 Domneasca St., 800008-Galați, Romania Centre for Continuing Education and Technological Transfer – CFCTT
Level in national or international classification	Post-graduate
Dates	November - 2003
Title of qualification awarded	Post-university studies diploma: SMEs development stimulation – Trainer

Principal subjects/occupational skills covered	Projects Management, Communication and Vocational Guidance, Businesses Development
Name and type of organisation providing education and training	Dunarea de Jos University of Galati, 47 Domneasca St., 800008-Galați, Romania Centre for Continuing Education and Technological Transfer – CFCTT
Level in national or international classification	Post-graduate
Dates	October - 2003
Title of qualification awarded	Specialization course diploma: Communication and Public Relations
Principal subjects/occupational skills covered	Communication, Inter-institutions Communication, Crises Communication, Public Relations, Ceremony and Protocol
Name and type of organisation providing education and training	Dunarea de Jos University of Galati, 47 Domneasca St., 800008-Galați, Romania Centre for Continuing Education and Technological Transfer – CFCTT
Level in national or international classification	Specialization
Dates	October - 2003
Title of qualification awarded	Specialization course diploma: Human Resources Management
Principal subjects/occupational skills covered	Theories on Management, Managerial Styles and Roles, Team Development, Conflicts, Management of Change
Name and type of organisation providing education and training	Dunarea de Jos University of Galati, 47 Domneasca St., 800008-Galați, Romania Centre for Continuing Education and Technological Transfer – CFCTT
Level in national or international classification	Specialization
Dates	October - 2003
Title of qualification awarded	Specialization course diploma: European Integration and Community Relations
Principal subjects/occupational skills covered	Romania Accession to the European Union, European Union: Presentation , European Accession Process, Costs and Benefits of Accession to EU
Name and type of organisation providing education and training	Dunarea de Jos University of Galati, 47 Domneasca St., 800008-Galați, Romania Centre for Continuing Education and Technological Transfer – CFCTT
Level in national or international classification	Specialization
Dates	October - 2003
Title of qualification awarded	Specialization course diploma: Project development and management
Principal subjects/occupational skills covered	Financial Sources, Projects Development, Projects Management
Name and type of organisation providing education and training	Dunarea de Jos University of Galati, 47 Domneasca St., 800008-Galați, Romania Centre for Continuing Education and Technological Transfer – CFCTT
Level in national or international classification	Specialization
Dates	1995-2003
Title of qualification awarded	Diploma: PhD. Eng., CUM LAUDE
Principal subjects/occupational skills covered	Industrial Engineering PhD Thesis: <i>Theoretical and Experimental Research on the Thermal Processes in Dissimilar Metals Welding</i> Analytical modelling and FEA of dissimilar metals welding, Experiments by termography method, Macro and microstructures of dissimilar metals welded joints etc.
Name and type of organisation providing education and training	Dunarea de Jos University of Galati, 47 Domneasca Str., 800008 – Galați, Romania
Level in national or international classification	Doctor (PhD), Industrial Engineering
Dates	1980-1985
Title of qualification awarded	Diploma of Mechanical Engineer, Welding Technology and Equipment specialization

Principal subjects/occupational skills covered	Mechanical engineering fundamental courses: mathematics, physics, informatics, material sciences, Specific Welding Technology and Equipment specialization courses as Welding Processes, Welding Metallurgy, Welding Technologies and Equipment Design, Welded Structures Design etc.
Name and type of organisation providing education and training	Dunarea de Jos University of Galati, 47 Domneasca St., 800008-Galați, Romania Faculty of Mechanical Engineering
Level in national or international classification	Higher Education Graduate, Engineer
International documentary stages/ other training programmes	✓ June-July 2015: <i>Development of study programmes and learning oportunities for students</i>, course organized in the framework of the project POSDRU/156/1.2/G/133630, "Stefan cel Mare" University of Suceava, Romania ✓ March – 2012: <i>Quality Management in Higher Education, Managementul Calității în Învățământul Superior</i>, course organized in the framework of the project POSDRU/86/1.2/S/61959, "Alexandru Ioan Cuza" University from Iasi, Romania ✓ February – 2012: Training stage in Advanced Materials Processing, Universidad Politecnica de Madrid – Centro Laser, Spain ✓ October – 2010: Training stage in Laser Welding Processes, Universidad Politecnica de Madrid – Centro Laser, Spain ✓ November - 2006: Documentary stage in the special welding processes field - Instituto Tecnico Superior Lisbon IST, PORTUGAL and Universidad Politecnica de Madrid – Centro Laser, Spain ✓ February - March 2005: <i>Training of Trainers in Career Guidance and Counselling</i>, course organized by CICOP, "Dunarea de Jos" University of Galati, Romania ✓ April – 2003: Documentary stage in the field of Total Quality Management, Instituto Tecnico Superior Lisbon - IST, Portugal ✓ November – 2000: Documentary stage in the underwater technologies field, ODL and TQM, Instituto Tecnico Superior Lisbon - IST, Portugal
Personal skills and competences	
Mother tongue(s)	Romanian
Other language(s)	
Self-assessment	
European level (*)	
English	
French	
Research fields	- Development of welding processes and technologies - Fundamental and applicative research in fusion welding field: modelling & simulation, behaviour of similar and dissimilar materials subjected to monoarc/multiarc/multiwire welding - Fundamental and applicative research in special welding process field (Friction Stir Welding/Processing FSW/FSP)
Social skills and competences	- Work experience in different countries, with different nationality people - Experience in teaching by classical and ICT methods - Participation to the international meetings and conferences in Switzerland, Denmark, Austria, Croatia, France, Germany, Israel, Italy, Spain, Portugal, Russia, Turkey, Republic Czech, Hungary - Participation in national/ international research and other European projects: PN II, CEEX, CNCISIS, FP5, TEMPUS, PHARE, Leonardo da Vinci, Erasmus, Erasmus*
Organisational skills and competences	- Experience in academic management in the framework of Doctoral School of Engineering, Faculty of - Mechanical Engineering/Faculty of Engineering and Department of Robotics and Welding - Experience in international and national projects management and coordination - Experience in organising of international and national conferences, international seminars and workshops

Technical skills and competences	- Teaching using multimedia tools - Other practical skills in fields such as: computers, mechanical equipment, thermal processes, materials science, mechatronics, robotics, simulation of fusion welding processes.
Computer skills and competences	- MSWindows & MSOffice, Multimedia, Internet. - Analiza cu element finit – COSMOS, COREL Draw & Photopaint; Adobe Photoshop
Other skills and competences	Relevant experience in the following main expertise fields: - Trainer of trainers in vocational education and training area - Trainer for SMEs development stimulation - Human Resources Development (HRD); Communication and Public Relations - Open Learning; Multimedia teaching tools and methods - Total Quality Management, Academic Management; Projects management
Driving licence	Category B vehicle
Additional information	Expert evaluator: - Expert evaluator at European Commission for HORIZON 2020–Research and Innovation-FoF12 Panel - Expert evaluator at European Commission for the <i>Research Fund for Coal and Steel</i> (RFCS) Programme - Expert/Delegate at International Institute of Welding – IIW - Evaluator for PN-II and PN-III Programmes – UEFISCDI Romania - Evaluator in the Romanian Agency for Quality Assurance in Higher Education (ARACIS) – Industrial Engineering and Management Commission - Evaluator for scientific journals indexed by Thomson Reuters - Web of Science (<i>International Journal of Advanced Manufacturing Technology, Materials and Manufacturing Processes, Journal of Manufacturing Processes, Materials and Design, Journal of Alloys and Compounds</i>) - Evaluator for international & national conferences in the fields of Welding & Joining Processes, Industrial Engineering, Mechanical Engineering, Materials Science etc. - Member of the Commission of Appeals Examination CNATDCU - Industrial Engineering and Management Commission, Ministry of National Education and Scientific Research (MENCS) - Evaluator of PhD thesis in Industrial Engineering field Teaching mobilities (1 week/mobility): - July 2014: University Nova de Lisboa, Portugal - May 2013: University of Porto, Portugal - April 2013, June 2010: Universidad Politecnica de Madrid – Centro Laser, Spain - May 2012: University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Croatia - May 2011, Iunie 2010: Universite de Rouen, IUT, France Affiliation: membership of - General Society of Engineers from Romania (AGIR), 2010 - onwards - Romanian Society of Welding (A.S.R.), 1993 - onwards - Romanian Society of Robotics (S.R.R.), 1997 – onwards - Institute of Research Engineers and Doctors (IRED), senior member, 2014 - onwards - Athens Institute for Education and Research (ATINER), 2016 - onwards Awards: - 1st Scientific Award for paper Heat Treatment of Joints Welded on Cogged Surfaces, International Conference ModTech 2011, Chişinău, Republica Moldova - Universitaria Award for Welding Processes Basics (Bazele Proceselor de Sudare) e-book, Publishing House Foundation of Dunarea de Jos University of Galati (Martie 2008) - 8 Prizes of the CNCSIS – National University Research Council for the scientific contributions published in journals included in ISI Web of Knowledge (Journal of Materials Processing Technology, Science and Technology of Welding and Joining, Metalurgia International) - 2007, 2009, 2010, 2014. - Medal Université dans la Société, ACPART-Ministry of Education and Research and Université de Rouen-France (2006) - Diploma of Romanian Welding Society for meritorious activity (2006)

Synoptic table of scientific achievements

Books, articles, patents, R&D grants, EC grants *	2010 - 2015	Total
A. PhD – Industrial Engineering Field	-	1
B. Books	2	12
B.1. Books published abroad (as editor)	2	2
B.2. Books published in Romania	-	10
C. Papers published in scientific journals:	25	85
C.1. journals indexed by Thomson Reuters - WoS (ISI)	5	11
C.2. international journals (International DataBases – IDB)	7	16
C.3. national journals (International DataBases - IDB, B+)	13	52
C.4. national journals (B)	-	6
D. Papers published in Conferences Proceedings	37	106
D.1. international conferences proceedings indexed by Thomson Reuters - Web of Science (ISI)	2	8
D.2. international conferences proceedings (IDB)	17	46
D.3. international conferences proceedings (ISBN)	13	33
D.4. national conferences proceedings (ISBN)	5	19
E. Articles in other interest fields	-	11
E.1. papers published in international journals or International Conferences Proceedings in the fields of academic management, HRD, and vocational training collaborative research	-	11
F. Patents	1	1
G. National and international grants	5	33
G.1. National R&D and innovative projects	2	20
G.2. Grants funded by EC	3	13

Anexe List of books, articles, patents, R & D and HRD grants

April, 2016

Prof. PhD. eng. Elena SCUTELNICU

LIST OF BOOKS, ARTICLES, PATENTS, RESEARCH and HRD GRANTS

A. PhD thesis – Cum Laude

- ✓ Scutelnicu E., *Cercetari teoretice si experimentale privind procesele termice la sudarea imbinarilor eterogene (Theoretical and experimental researches on the thermal processes in dissimilar metals welding)*, Universitatea Dunarea de Jos din Galati, Romania, februarie 2003.

B. Books

B.1. Books published as editor: 2

1. Elena Scutelnicu, Francesco Rotondo, Humberto Varum, *Recent Advances in Engineering Mechanics, Structures and Urban Planning*, WSEAS Press, ISBN: 978-1-61804-165-4, Cambridge, UK, February, 2013, 196 pag.
2. Elena Scutelnicu, Ljubomir Lazic, Pablo Fernandez de Arroyable, *Advanced in Remote Sensing, Finite Differences & Information Security*, WSEAS Press, ISBN: 978-1-61804-127-2, Prague, 2012, 216 pag.

B.2. Books: 9

1. Scutelnicu E., Visan D., *Capitolul Educatie si Cercetare Mecatronica la Universitatea Dunarea de Jos din Galati/Platforme Mecatronice pentru Educatie si Cercetare*, coordonator Vistrian Maties, Editura TODESCO, Cluj-Napoca, ISBN 978-973-7695-79-6, 2009
2. Scutelnicu E., *Bazele proceselor de sudare*, e-book, ISBN(13) 978-973-627-365-0 Editura Fundatiei Universitare Dunarea de Jos, Galati, Romania, 2007.
3. Iordachescu, D., Iordachescu, M., Scutelnicu, E., *Traductoare si senzori (Sensors and Transducers)*, e-book, ISBN-10 973-627-350-4, ISBN-13 978-973-627-350-6 Editura Fundatiei Universitare Dunarea de Jos, Galati, Romania, 2006.
4. Scutelnicu, E., Oprea, R., Angheluta, L., Untu, D. – *Initiere si Consiliere pentru Debutul in Afaceri*, ISBN 973-30-1929-1, Editura Didactica si Pedagogica, Bucuresti, Romania, 2005.
5. Iordachescu, M., Scutelnicu, E., Iordachescu, D. – *Stimularea potentialului de dezvoltare a IMM-urilor*, ISBN 973-30-1366-8, Editura Didactica si Pedagogica, Bucuresti, Romania, 2005.
6. Scutelnicu, E. – *Simularea prin Element Finit a Proceselor Termice din Imbinarile Sudate Eterogene*, e-book, ISBN 973-627-088-2, Editura Fundatiei Universitare Dunarea de Jos din Galati, Romania, 2004.
7. Iordachescu, M., Scutelnicu, E., Iordachescu, D., Stanca, C. – *Concepte in Managementul Calitatii Totale*, ISBN 973-627-082-3, Editura Fundatiei Universitare Dunarea de Jos din Galati, Romania, 2004.
8. Scutelnicu, E., Iordachescu, M., Tofan, C. – *Managementul Calitatii Totale*, e-book, ISBN 973-627-087-4, Editura Fundatiei Universitare Dunarea de Jos din Galati, Romania, 2004.
9. Scutelnicu, E., Constantin, E., Iordachescu, D. – *Modelarea Proceselor Termomecanice de Asamblare*, ISBN 973-627-078-5, Editura Fundatiei Universitare Dunarea de Jos din Galati, Romania, 2003.

B.3. Courses/Laboratory tests

1. Scutelnicu, E. - *Modelarea Proceselor Termomecanice de Asamblare*, Indrumar de laborator, Editura Fundatiei Universitare Dunarea de Jos din Galati, 2003, Romania, 79 pp.

C. Articles published in scientific journals

C.1. Articles published in international journals indexed by Thomson Reuters - Web of Science (ISI): 11

1. Iordachescu M., Valiente A., Scutelnicu E., Ocana J. L., Ruiz-Hervias J., *Laser shock processing influence on constitutive behaviour of graded structures produced by laser welding of ferritic to austenitic stainless steel*, Science and Technology of Welding and Joining 2014, Vol. 19 No. 5, ISSN 1362-1718, pp. 302-309, WOS:000337135100003
2. Birsan D. C., Rusu C. C., Scutelnicu E., Mistodie L. R., *Heat transfer analysis in API X70 steel joints performed by double submerged arc welding process*, Metalurgia International, Vol. XVIII no. 1, 2013, pp. 62-65, WOS:000315368200013
3. Iordachescu D., Scutelnicu E., Iordachescu M., Valiente A., Ruiz-Hervias J., Ocana J. L., *Specific properties of ferritic/austenitic dissimilar metals welded joints*, Welding in the World, ISSN 0043-2288, Vol 55, Iss. 3-4, 2011, pp. 2-11, WOS:000288235500001
4. Iordachescu M., Iordachescu D., Scutelnicu E., Ruiz-Hervias J., Valiente A., Caballero L., *Influence of heating source position and dilution rate in achieving overmatched dissimilar welded joints*, Science and Technology of Welding and Joining 2010, Vol. 15 No. 5, ISSN 1362-1718, pp. 378-385, WOS:000280648400006

5. Iordachescu D., Scutelnicu E., Iordachescu M., Ruiz-Hervias J., *Temperature Field Features of Dissimilar Metals Arc Welding*, Metalurgia International Vol XV, nr. 4, ISSN 1582-2214, 2010, pp. 26-31, WOS:000274149400005
6. Scutelnicu E., Iordachescu M., Iordachescu D., *Arc Welding of Dissimilar Metals; FEA and Experiments in Case of Copper - Carbon Steel Joints*, Metalurgia International nr. 7, ISSN 1582-2214, 2009, pp. 33-37, WOS:000265002800008
7. Iordachescu M., Iordachescu D., Planas J., E. Scutelnicu, Ocaña J.L., *Material Flow, Hardening at Butt Cold Welding of Aluminium*, Journal of Materials Processing Technology, Volume 209, Issue 9, 1 May 2009, ISSN 0924-0136, pp. 4255-4263, WOS:000266021200006
8. Iordachescu M., Iordachescu D., Scutelnicu E., *Cold Press Welding of Aluminium – Original Theoretic and Experimental Approach*, Metalurgia International, Vol XIV nr. 11, ISSN 1582-2214, 2009, pp. 71-78, WOS:000268551300012
9. Iordachescu M., Iordachescu D., Ocaña J.L., Vilaca P., Scutelnicu E., *FSW - Characteristic Flaws in Aluminium Alloys Joints*, Metalurgia International, Vol. XIV, Sp. Is nr. 2, ISSN 1582-2214, 2009, pp.135-138, WOS:000265001400033
10. Iordachescu M., Iordachescu D., Blasco M., Scutelnicu E., *Comparative Analysis of the Friction Stir Processing Effects on as Cast and Rolled Plates of Aluminium Alloys*, Metalurgia International, Vol. XIV, Sp. Is nr. 7, ISSN 1582-2214, 2009, pp. 99-104, WOS:000268716400021
11. Iordachescu, M., Iordachescu, D., Scutelnicu, E., Ocaña, J.L., *FEM model of the butt cold welding*, Science and Technology of Welding and Joining 12(5): 402-409 Sep 2007, ISSN 1362-1718, September 2007, pp. 402-409, WOS:000249760800005

C.2. Articles published in international journals indexed by international databases (IDB): 16

1. Scutelnicu E., Ene N., Rusu C. C., Mistodie L. R., *High Productivity of Submerged Arc Welding Achieved with Multiple-Wire Technology*, International Journal of Advancements in Mechanical and Aeronautical Engineering– IJAMAE, Volume 2, Issue 1, ISSN 2372-4153, 2015, pp. 141-145.
2. Mistodie L. R., Rusu C. C., Scutelnicu E., Ene N., *Monitoring System of Temperature Field in Pipeline Subjected to Multi-Wire Submerged Arc Welding*, International Journal of Advancements in Mechanical and Aeronautical Engineering– IJAMAE, Volume 2, Issue 1, ISSN 2372-4153, 2015, pp. 175-179.
3. Rusu C. C., Constantin C., Birsan D., Mircea O., Vişan D., Mistodie L. R., Georgescu B., Scutelnicu E., *Investigation of Temperature Field Generated by the Tandem Submerged Arc Welding Process*, International Journal of Advancements in Mechanical and Aeronautical Engineering– IJAMAE, Volume 2, Issue 1, ISSN 2372-4153, 2015, pp. 181 - 185.
4. Mihailescu D., Gheonea M. C., Scutelnicu E., *Investigation on CO and Microparticles Concentrations Produced in MAG-M Welding Process*, Applied Mechanics and Materials, Vol. 809-810 (2015), pp. 455-460, doi: 10.4028/www.scientific.net/AMM.809-810.455
5. Gheonea M. C., Mihailescu D., Scutelnicu E., *Influence of Shielding Gas and Wire Type on the Microparticles Size generated during MAG Welding Process*, Applied Mechanics and Materials, Vol. 809-810 (2015), pp 461-466, doi:10.4028/www.scientific.net/AMM.809-810.461
6. Scutelnicu E., Rusu C. C., *Assessment of cooling rate in longitudinal welded pipelines performed by submerged double-arc welding*, International Journal of Mechanics, Volume 8, Issue 1, 2014, pp. 144-149
7. Birsan D., Scutelnicu E., Visan D., *Modeling of Heat Transfer in Pipeline Steel Joint Performed by Submerged Double-Arc Welding Procedure*, Advanced Materials Research, ISSN 1662-8985, DOI 10.4028/www.scientific.net/AMR.8, Vol. 814, 2013, pp. 33-40.
8. Iordachescu M., Iordachescu D., Ocaña J.L., Vilaça P., Scutelnicu E., *Contribution to the Classification of the Characteristic Flaws in Friction Stir Welded Aluminium Butt Joints*, Welding in the World, Vol 53 Sp. Is., 2009, International Institute of Welding, France, ISSN 0043-2288, pp. 259-264.
9. Iordachescu D., Iordachescu M., Blasco M., Scutelnicu E., Ocaña J. L., *Temperature influence on black & white joints characteristics*, Document tehnic IIW Doc. IV-976-09, XII-1966-09, 212-1142-09, International Institute of Welding, pp. 1-13
10. Scutelnicu E., Iordachescu M., Iordachescu D., *Structural modifications in the heterogeneous welded joints*, Welding in the World, Vol 52, SPI, ISSN 0043-2288, International Institute of Welding, France, 2008, pp. 185-189.
11. Iordachescu, M., Ruiz Hervías, J., Iordachescu, D., Scutelnicu, E., Porro, J.A., *Residual stress analysis of friction stir processed AA6061*, Welding in the World, Vol 52, SPI, ISSN 0043-2288, International Institute of Welding, France, 2008, pp. 753-757.
12. Iordachescu M., Iordachescu D., Ruiz Hervías J., Scutelnicu E., Porro J.A., *Residual stress analysis of friction stir processed AA6061*, Technical document IIW (International Institute of Welding) nr. III-1502-08, 2008, 7 pp.
13. Scutelnicu, E., Iordachescu, M., Iordachescu, D., *Spot Fusion Welding Simulation*, Welding in the World, vol. 51 SPI, International Institute of Welding, France, 2007, ISSN 0043-2288, pp. 701-710.
14. Iordachescu, M., Iordachescu, D., Scutelnicu, E., Vilaca, P., Birsan, D., Ocaña, J.L., *Aluminium Friction Stir Processing – Roughness vs. Macro/Microscopically Results*, Welding in the World, vol. 51 SPI, International Institute of Welding, France, 2007, ISSN 0043-2288, pp. 441-448.
15. Iordachescu, D., Georgescu, B., Iordachescu, M., Scutelnicu, E., Blasco, M., *MAGNETARC Welding - Equipment Peculiarities and Joint Characteristics*, Welding in the World, vol. 51 SPI, International Institute of Welding, France, 2007, ISSN 0043-2288, pp. 367-376.

16. Scutelnicu E., Constantin E., Iordachescu M., *Heat transfer simulation in carbon steel – copper welded joints*, Welding in the World (Soudage dans le Monde), ISSN 0043-2288, International Institute of Welding, France, vol. 49, special issue – 2005, pp. 361-367.

C.3. Articles published in national journals, indexed by international databases (IDB) and ranked (B+) by CNCIS: 52

1. Constantin E., Rusu C. C., Bormambet M., Poalelungi C. M., Scutelnicu E., *Global Thermal Cycle Developed By The Submerged Arc Welding Process In API -5L-X70 Steel*, The Annals of "Dunarea de Jos" University of Galati, Fascicle XII, Welding Equipment And Technology, Vol. 26 (YEAR XXVI), 2015, ISSN 1221-4639, pp. 12-18
2. Birsan D., Scutelnicu E., *Modelling of Thermo-Mechanical Effects Generated By Friction Spot Stir Welding Process*, The Annals of "Dunarea de Jos" University of Galati, Fascicle XII, Welding Equipment And Technology, Vol. 25 (YEAR XXV), 2014, ISSN 1221-4639, pp. 29-34.
3. Ene N., Scutelnicu E., *Application of Taguchi Method combined with Grey Relational Analysis for the Optimization of Submerged Arc Welding Process*, The Annals of "Dunarea de Jos" University of Galati, Fascicle XII, Welding Equipment and Technology, ISSN 1221-4639, vol. 24, 2013, pp. 23-32.
4. Iordachescu M., Ruiz-Hervias J., Luzin V., Scutelnicu E., Valiente A., Ocana J. L., *Residual Stress Distributions in Ferritic to Austenitic Steel Joints made by Laser Welding*, The Annals of "Dunarea de Jos" University of Galati, Fascicle XII, Welding Equipment and Technology, ISSN 1221-4639, vol. 24, 2013, pp. 45-49.
5. Ursachi L., Scutelnicu E., *New concepts and techniques implemented by "Dunarea de Jos" University Library of Galati*, Revista Transilvania 2, 2013, pp. 59-64
6. Ene N., Scutelnicu E., *Comparative study on cladding techniques*, The Annals of Dunarea de Jos University of Galati, Fascicle XII, Welding Equipment and Technology, Year XXII, 2012, ISSN 1221-4639, pp. 34-39.
7. Birsan D. C., Scutelnicu E., *Stress and temperature field modelling at web stiffeners welding*, The Annals of Dunarea de Jos University of Galati, Fascicle XII, Welding Equipment and Technology, Year XXII, 2011, ISSN 1221-4639, pp. 45-50.
8. Mistodie L. R., Rusu C. C., Scutelnicu E., *Influence of pulsed gas metal arc welding parameters on the electric arc and droplet geometry*, The Annals of Dunarea de Jos University of Galati, Fascicle XII, Welding Equipment and Technology, Year XXII, 2011, ISSN 1221-4639, pp. 62-65.
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5. *Cercetări Fundamentale și Aplicative privind Realizarea Bronzurilor CuNiAl destinate Recondiționării Elicelor Navale – ELNAV*, Contract CEEX 322/2006 MedC – RELANSIN, 2006-2008, member in the research team.
6. *Sistem de monitorizare și comanda a proceselor de brazare cu arc electric a tablelor subtiri pentru autovehicule*, MECT- CNCSIS, cod 440, tema 6, 2004-2006, member in the research team.
7. *Verificarea Experimentală prin Metoda Termografierii a Distribuției Temperaturilor în Îmbinările Sudate Eterogene*, Grant CNCSIS tip A, contract 34672/24.06.2005, tema 4, M.E.C.T. cod C.N.C.S.I.S. 1021, executive manager.
8. *Modelarea cu Elemente Finite a Transferului Termic în Îmbinările Sudate Eterogene*, Grant CNCSIS tip A, contract 33334/2004, tema 3, M.E.C.T. cod C.N.C.S.I.S. 1021, executive manager.
9. *Soluții analitice pentru predicția temperaturilor în îmbinările sudate*, Grant CNCSIS tip A, contract 41273/2003 tema 1, M.E.C.T. cod C.N.C.S.I.S. 1021, executive manager.
10. *Cercetări privind utilizarea asamblărilor cu strângere realizate hidrostatic în industria navală*, Grant CNCSIS tip A, contract 33251/2003, tema 4, M.E.C.T. cod C.N.C.S.I.S. 379, member in the research team.
11. *Cercetări privind utilizarea asamblărilor cu strângere realizate hidrostatic în industria siderurgică*, Grant CNCSIS tip A, contract 33445/2002, tema 17, M.E.N. cod C.N.C.S.I.S. 455, member in the research team.
12. *Poziționarea subacvatică a conductelor magistrale*, Grant CNCSIS tip A, contract 33445/2002, tema 8, M.E.N. cod. CNCSIS 107, member in the research team.
13. *Sudarea conductelor magistrale*, Grant CNCSIS tip A, contract 34976/2001, tema 20, M.E.N. cod C.N.C.S.I.S. 554, member in the research team.
14. *Monitorizarea arcului electric prin vedere artificială*, Grant CNCSIS tip A, contract 36976/2001, tema 3, M.E.N. cod C.N.C.S.I.S. 817, membru in echipa de cercetare.
15. *Modelarea fenomenelor fizice din plasmă*, Grant CNCSIS tip A, contract 36943/2000, tema 10, M.E.N. cod C.N.C.S.I.S. 817, member in the research team.
16. *Plasma arcului electric de sudare*, Grant CNCSIS tip A, contract 34234/1999, tema 8 - M.E.N. cod C.N.C.S.I.S. 411, member in the research team.
17. *Modelarea proceselor și sistemelor tehnologice și neconvenționale de sudare cu arc electric*, Grant CNCSIS tip A, contract 80/1995 M.I. și C.N.C.S.U, member in the research team.
18. *Cercetări privind analiza de proces și realizarea echipamentelor necesare sudării antigravitaționale*, Grant CNCSIS tip A, contracte 1880/1992, 1993, 3007/1994, M.I.-D.G.I.S.C.S.U, member in the research team.
19. *Cercetări Tehnologice privind introducerea debitării cu plasmă a oțelurilor navale*, Contract cercetare 16.1.05/1992 ICEPRONAV Galați, proiect coordonator.
20. *Cercetări privind introducerea sudării electrice în baie de zgură inelară la realizarea structurilor din materiale eterogene: Tipuri de uzură specifice cilindrilor de laminor. Metode de fabricare și recondiționare a cilindrilor*, contract 25/1.01.1992, – Ministerul Învățământului și Științei, member in the research team.

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1. *South Mediteranian Welding Center for Education, Training and Quality Control (SM WELD)*, Project no. 561786-EPP-1-2015-1-SE-EPPKA2-CBHE-JP, 2016-2018, project responsible.
2. *Calitatea și continuitatea formării în cadrul ciclului de studii doctorale – TOP ACADEMIC*, POSDRU/107/1.5/S/76822, 2010-2013, Expert.
3. *Program de formare profesională flexibilă pe platforme mecatronice - FlexFORM*, POSDRU 87/1.3/S/64069, 2010-2013, Expert.
4. *Conceperea și implementarea unui sistem de inițiere și consiliere pentru debutul în afaceri - CISICA*, RO-2002/000-586.05.02.02.103, CE-Romania, Economic and Social Cohesion, HRD, 2004-2005, project manager.
5. *Guidance and Counselling for Self-Employment - SELFEMPLOYMENT*, PL/04/F/RF-84151, 2004-2242/001-001 LE2-51ORE, ASM, CE-Poland 2004-2007, member in the research team.
6. *Carrier Counselling in Lifelong Learning using New ICT Approach and Tools – VIRCOUNS*, P/04/9/P/PP-159035, CE-Portugal, 2004-2006, member in the research team.
7. *Analysis and Comparative Study on construction inspection job performance regulations. European comparative study - KNOWLEDGE* PL/04/F/RF-84152, 2243/001-001 LE2-51OREF, ASM, CE-Poland, 2004-2005, member in the research team.
8. *Empowering Employees to Manage their own Outplacement Process- EMOP*, D/03/B/F/PP – 146061, CE-Germany, 2004-2005, local deputy manager.
9. *Right person for the right job – RIPERJO*, A/02/B/F/PP/124.20, CE-Austria, 2002-2005, local technical manager.
10. *Rețea Regională de Centre de Formare Continuă și Managementul Calității Totale – REFORM* RO.007.02.01.01.0314, PHARE 2000 Project, Economic and Social Cohesion, HRD, 2003, member in the research team.

11. *Statistical Indicators for Benchmarking the Information Society - SIBIS+* , Research Project FP5/IST-2000-26276 /IST 2001-3, CE-Germany, 2002-2003, member in the research team.
12. *New ICT Didactic Methods & Tools for Higher Education - NEWMIT*, RO/2002/89056/EX, RO- EC, 2002, membru în colectiv.
13. *Development of ODL Centre through Underwater Technologies*, TEMPUS S_JEP 12466 – 97, CE-RO, 1997-2001, member in the research team.

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