

PERSONAL INFORMATION

Dan Catalin Birsan



📍 29, Otelarilor str., Romania  
 📞 0742211074  
 ✉ [dbirsan@ugal.ro](mailto:dbirsan@ugal.ro)  
 🌐 [http://www.cmrs.ugal.ro/CD/DanBirsan\\_En.htm](http://www.cmrs.ugal.ro/CD/DanBirsan_En.htm)

Sex Male | Date of birth 24/02/1969 | Nationality romanian

WORK EXPERIENCE

2002-present **Assistant Professor Dr. Eng**  
 Dunărea de Jos University, Galati (47, Domneasca Street, 800008 - Galati, www.ugal.ro)  
 ▪ Teaching and research activities;  
 ▪ Taught Courses: Modeling of Mechatronic Systems, Transducers and Sensors, Microcontrollers and Microprocessors, Systems Theory, Welded Structures, Product Development Management, etc.

EDUCATION AND TRAINING

2002-2008 **Doctor Engineer**  
 Title of the thesis: The correlation between the 3D thermal field and the properties of the welded joint

2002-2004 **Master Degree**  
 Numerical modeling of mechanical and technological processes  
 Dunărea de Jos University, Str. Domnească nr. 47, 800008 - Galati, Romania

2002-2008 **Engineer Degree**  
 Diploma of Mechanical Engineer, specializing in Industrial Robots  
 Mechanical engineering fundamental courses: mathematics, physics, informatics, material sciences  
 Specific Welding Technology and Equipment specialization courses as Welding Processes, etc.  
 Dunărea de Jos University, Str. Domnească nr. 47, 800008 - Galati, Romania

PERSONAL SKILLS

Mother tongue(s) romanian

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
Replace with name of language certificate. Enter level if known.					
French	A2	A2	A2	A2	A2
Replace with name of language certificate. Enter level if known.					

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user  
[Common European Framework of Reference for Languages](#)

**Communication skills**

- Experience in presentations for different audience levels, sizes and nationalities;
- Experience in the use of classical methods in teaching;
- Participation in various international conferences and meetings organized in: Turkey, Spain, Croatia.
- Participation in various national / international research projects and other European projects: CNCSIS, CEEEX.

**Job-related skills**

- Use of multimedia tools in teaching activities
- Elaboration of new technical courses and presentation of technical scientific papers at various international conferences;
- Other technical competencies in different fields: computers, mechanical equipment, thermal processes, materials science, mechatronics, robotics, simulation of welding processes etc.

**Digital skills**

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Levels: Basic user - Independent user - Proficient user  
[Digital competences - Self-assessment grid](#)

- CAD software: NX7.5, SolidWorks, Autocad.
- CAE software: Femap, Marc Mentat, Patran
- CAM Software: NX7.5-Manufacturing
- Robot programming: Tecnomatix10-Robcad.
- Simulation of production: Tecnomatix10-PlantSimulation.
- Programming: C ++
- Simulation of mechanical systems: NX7.5-MotionSimulation, Matlab, LabVIEW.
- Structural analysis software for ship: Nauticus, Poseidon, Mars, DrillShip, Veristar., NK Primeship .

**Other skills**

- Trainer certificate for CAE, CAM, PLM modules for Siemens Femap, NX, Plant Simulation, Tecnomatix, RobCad.

**Driving licence**

B

## ANNEXES

## LIST OF PUBLISHED SCIENTIFIC PAPERS

### C. Papers published in international journals or in journals recognized by CNCSIS

#### C.1. – Journals included in ISI Web of Knowledge: 2

1. Dobreă V.D., **Birsan D.**, Fetecău C., Palade L.I., Birsan I. G. – Revista Materiale Plastice (IF 2011-0,387, AIS – 0,038), București, ISSN 0025-5289, vol.49 nr.4, 2012, pag. 242-248.
2. **Birsan D. C.**, Rusu C. C., Scutelnicu E., Mistodie R. L., Heat Transfer Analysis in API X70 Steel Joints Performed by Double Submerged Arc Welding Process, Metalurgia International, Vol. 18, Spec. Iss. 1, pp. 62-65, 2013.

#### C.2. - Papers published in international journals included in international databases (IDB): 4

1. **Birsan D.**, Constantin E., Visan D., *3D Thermal Fields Distributions And Stresses Analysis From T - Welded Joint*, Welding in the World, Volume 52, Special Issue – 2008, ISSN 0043-2288, pag. 715-719.  
[Scopus - Welding in the World: 3D thermal fields distributions and stresses analysis from T - Welded joint](#)
2. Visan D., Constantin E., **Birsan D.**, *The Electromagnetic Agitation of the Electro-Slag Welding Pool*. The Components of the Electro-Thermo-Magnetic Field, Welding in the World, Volume 52, Special Issue – 2008, ISSN 0043-2288, pp. 783-787.  
[Scopus - Welding in the World: The electromagnetic agitation of the electro-slag welding pool. The components of the electro-thermo-magnetic field.](#)
3. **Birsan D.**, Visan D., Iordăchescu M., *3D Thermomechanical Model of Fusion Welding*, Welding in the World, 2007, vol. 51, no. SPI, ISSN 0043-2288, pp. 657-666.  
[Scopus - Welding in the World: 3D thermomechanical model of fusion welding](#)
4. Visan D., Constantin E., **Birsan D.**, Mircea O., *The Numerical Modelling by the Method of the Finite Differences of the Electroslag Welding Process in Electromagnetic Field*, Welding in the World, 2007, vol. 51, no. SPI, ISSN 0043-2288, pp. 647-656.  
[Scopus - Welding in the World: The numerical modelling by the method of the finite differences of the electro-slag welding process in electromagnetic field](#)

#### C.3. - Papers published in national journals, international databases indexed (BDI) and recognized by CNCSIS (B+): 32

1. **Birsan D.**, *Dropped Object Analysis Methods In Offshore Structure Using Non-Linear Dynamic Fe Analysis*, New Technologies and Products in Machine Manufacturing Technologies Journal, P - ISSN-1224-029X, E - ISSN-2247-6016, pag. 25-29, BDI Journal: Index Copernicus, Ulrich WEB, EBSCO, SCIPPIO
2. **Birsan D.**, *Simplified Procedures For Fatigue Assessment Of The Welded Joints Of A Ship Structures*, New Technologies and Products in Machine Manufacturing Technologies Journal, P - ISSN-1224-029X, E - ISSN-2247-6016, pag. 34-39, BDI Journal: Index Copernicus, Ulrich WEB, EBSCO, SCIPPIO
3. **Birsan D.**, Paunoiu V., *Progressive collapse analysis of a „lay-down” structure under fire conditions*, The Annals of Dunarea de Jos University of Galati, Fascicle V, Technologies in Machine Building, 2018, ISSN 1221-4566, Galati University Press
4. Florescu, S.N, Mihăilescu, D., **Birsan, D.C.**, Mocanu, C.I., *Researches on the thermal fields analysis at MAG-M mechanized butt welding with solid wire*, The Annals of Dunarea de Jos University of Galati, Fascicle XI, Shipbuilding, Year XXXIV, 2018, ISSN 1221-4620, Galati University Press
5. **Birsan D.**, Finite element analysis of residual stresses in naval structures due to multiarc welding process, New Technologies and Products in Machine Manufacturing Technologies Journal, ISSN-2247-6016, pag. 234-242, BDI Journal: Index Copernicus, Ulrich WEB, EBSCO, SCIPPIO
6. **Birsan D.**, Self elevating unit structure global FE analysis, New Technologies and Products in Machine Manufacturing Technologies Journal, ISSN-2247-6016, pag. 201-209, BDI Journal: Index Copernicus, Ulrich WEB, EBSCO, SCIPPIO
7. **Birsan D.**, Toma C., Scutelnicu E., T Comparative Simulation by Finite Element Analysis of Conventional and Tandem Submerged Arc Welding, The Annals of „Dunarea de Jos” University of Galati Fascicle XII Welding Equipment and Technology 2016
8. Rusu C. C., Constantin C., **Birsan D.**, Mircea O., Vișan 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, pag. 181 - 185.
9. **Dan Cătălin Birsan**, Experimental study of micro hardness by friction stir welding process of AA 6061-T6, New Technologies and Products in Machine Manufacturing Technologies Journal, ISSN-2247-6016, pag. 127-131, BDI Journal: Index Copernicus, Ulrich WEB, EBSCO, SCIPPIO
10. Nicușor Baroiu, **Dan Cătălin Birsan**, Stress and deformation states for straight edge and curved edge helical drills, New Technologies and Products in Machine Manufacturing Technologies Journal, ISSN-2247-6016, pag. 94-101, BDI Journal: Index Copernicus, Ulrich WEB, EBSCO, SCIPPIO
11. **D. Birsan**, E. Scutelnicu, 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, Year XXV, 2014, ISSN 1221 4639, pag.29-34

12. **Birsan D.**, Mircea O., Coupled Analysis of the Double Submerged Arc Welding Process Using Element Movement Techniques, *New Technologies and Products in Machine Manufacturing Technologies Journal*, ISSN 1224-029X, Suceava, Romania, pag. 297-301.
13. **Birsan D.**, Florin I., Mircea O., Monitoring and control techniques of the installations on smart factory, *New Technologies and Products in Machine Manufacturing Technologies Journal*, ISSN 1224-029X, Suceava, Romania, pag. 364-369.
14. **Birsan D.**, Scutelnicu E., Vişan D., Modeling of Heat Transfer in Pipeline Steel Joint Performed by Submerged Double-Arc Welding Procedure, *The 10th International Conference Structural Integrity of Welded Structures*, Timisoara, Romania, 11-12 July, 2013, publicata in *Advanced Materials Research*, ISSN 1662-8985.
15. **Birsan D.**, 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 XXI, 2011, ISSN 1221 4639, pag.15-19.
16. Fetecau C., Stan F., Dobrea D., **Birsan D.**, Influence of injection molding parameters on mechanical properties of low density polyethylene filled with multiwalled carbon nanotubes, *ASME International Mechanical Engineering Congress and Exposition*, November 11-17, 2011 ISSN: 1792-4693, Published by WSEAS Press, Barcelona, Spain, pag. 103-108.
17. Mircea O., Visan D., **Birsan D. C.** - Residual Stresses in Welded Joints: Analytical Solution, *The Annals of Dunarea de Jos University of Galati, Fascicle XII, Welding Equipment and Technology*, Year XXI, 2010, ISSN 1221 4639, pag.19-23.
18. Visan D., **Birsan D. C.**, Mircea O. - Mechanical Properties of the Joints in the Electroslag with Electromagnetic Agitation, *The Annals of Dunarea de Jos University of Galati, Fascicle XII, Welding Equipment and Technology*, Year XXI, 2010, ISSN 1221 4639, pag.38-45.
19. **Birsan D. C.**, Visan D., Mircea O. - Numerical Simulation of Transient Temperature and Von Mises Stresses of the FSW Process, *The Annals of Dunarea de Jos University of Galati, Fascicle XII, Welding Equipment and Technology*, Year XXI, 2010, ISSN 1221 4639, pag.56-62.
20. Mircea O., Scutelnicu E., **Birsan D. C.**, Rusu C. C., Residual Stresses and Deformations in Butt Welded Joints, *Annual Scientific Journal of Ovidius University, Mechanical Engineering Series, Volume XII, Tom I*, 2010, ISSN 1224-1776, pag. 233-238.
21. **Birsan D.**, Scutelnicu E., Stan F. - Hardness of Friction Stir Welded Joints of AA6061-T6 Aluminum ALLOY, *The Annals of Dunarea de Jos University of Galati, Fascicle XII, Welding Equipment and Technology*, Year XXI, 2010, ISSN 1221 4639, pp.15-19.
22. **Birsan D.**, Visan D., Mircea O., Temperature monitoring in friction stir welding using thermovision method, *The Annals of "Dunarea de Jos" University of Galati, Fascicle XII, Welding Equipment and Technology*, Year XX, 2009, ISSN 1221 – 4639, pp. 45-49.
23. Mircea O., Visan D., **Birsan D.**, Properties analysis of the X60 welded joint using unidirectional test specimens, *The Annals of "Dunarea de Jos" University of Galati, Fascicle XII, Welding Equipment and Technology*, Year XX, 2009, ISSN 1221 – 4639, pp. 37-41.
24. Visan D., **Birsan D.**, Mircea O., Electro–thermo-magnetic field changes in case of electro-slag welding using electromagnetic agitation, *The Annals of "Dunarea de Jos" University of Galati, Fascicle XII, Welding Equipment and Technology*, Year XX, 2009, ISSN 1221 – 4639, pp. 91-96.
25. Scutelnicu E., **Birsan D.**, Iordachescu M., Computational modelling of friction stir welding – initial plunging phase, *The Annals of "Dunarea de Jos" University of Galati, Fascicle XII, Welding Equipment and Technology*, Year XX, 2009, ISSN 1221 – 4639, pp. 21-27.
26. **Birsan D.**, Visan D., Mircea O., Numerical simulation of transient temperature and Cauchy stresses of the friction stir welding process, *The Annals of "Dunarea de Jos" University of Galati, Fascicle XII, Welding Equipment and Technology*, Year XIX, 2008, ISSN 1221 – 4639, pp. 39.
27. **Birsan D.**, Iordachescu D., Ocana J.L., Vilaca P., Numerical simulation of transient temperature and Cauchy stresses of the friction stir welding process, *The Annals of Dunarea de Jos University of Galati, Fascicle XII, Welding Equipment and Technology*, Year XIX, 2008, ISSN 1221 – 4639, pp. 44-47.
28. Mircea O., Visan D., **Birsan D.**, Georgescu B., Thermal fields and residual stresses in welded joints: FEA and experiments, *The Annals of "Dunarea de Jos" University of Galati, Fascicle XII, Welding Equipment and Technology*, Year XIX, 2008, ISSN 1221 – 4639, pp. 55.
29. Visan D., Mircea O., **Birsan D.**, Simulation of the electromagnetic agitation of the molten pool, *The Annals of "Dunarea de Jos" University of Galati, Fascicle XII, Welding Equipment and Technology*, Year XIX, 2008, ISSN 1221 – 4639, pp. 65.
30. Vişan D., **Birsan D.**, Metallographic structures at the electro-slag welding with electromagnetic agitation, *The Annals of „Dunărea de Jos” University of Galați, Fascicle XII, Year XVII, ISSN 1221-4639, 2006, pp. 47-51.*
31. **Birsan D.**, Vişan D., Finite Difference Method for Heat Transfer Analysis at Dissimilar Metals Welding, *The Annals of „Dunărea de Jos” University of Galați, Fascicle XII, Year XV, ISSN 1221-4639, 2004, pp. 29-33.*
32. Vişan D., **Birsan D.**, Pool welding’s movement on the electro slag welding with two bilateral magnetic fields, *The Annals of „Dunărea de Jos” University of Galați, Fascicle XII, Year XV, ISSN 1221-4639, 2004, pp. 33-36.*

#### C.4. Papers published in national journals, recognized by CNCSIS (B): 2

1. Leoveanu I.S., Zgura Gh., **Birsan D.**, Modelling the heat and fluid flow in the welded pool, *International Conference on Materials Science and Engineering, Bulletin of the Transilvania University of Brasov, Vol.3, ISSN 1223-9631, 2007, 22-24 Febr. 2007, pp.363-368.*
2. Vişan D., **Birsan D.**, *Basic concept about the electro-slag welding with electromagnetic agitation*, *International Conference on Materials Science and Engineering, Bulletin of the Transilvania University of Brasov, Vol.3, 22-24 Febr, 2007, ISSN 1223-9631, pp.89-94.*

#### D. Papers published in International Conferences Proceedings indexed ISI or included in IDB (with ISSN or ISBN)

##### D.1. - Papers published in International Conferences Proceedings, indexed in ISI Web of Knowledge: 5

1. **Birsan D.**, Scutelnicu E., Visan D., *Behaviour Simulation of Aluminium Alloy 6082-T6 during Friction Stir Welding and Tungsten Inert Gas Welding*, Proceedings of the 4th International Conference on MANUFACTURING ENGINEERING, QUALITY and PRODUCTION SYSTEMS (MEQAPS '11), September 15-17, 2011 ISSN: 1792-4693, Published by WSEAS Press, Barcelona, Spain, pp. 103-108.
2. Scutelnicu E., **Birsan D.**, Cojocaru R., *Research on Friction Stir Welding and Tungsten Inert Gas assisted Friction Stir Welding of Copper*, Proceedings of the 4th International Conference on MANUFACTURING ENGINEERING, QUALITY and PRODUCTION SYSTEMS (MEQAPS '11), September 15-17, 2011 ISSN: 1792-4693, Published by WSEAS Press, Barcelona, Spain, pp. 97-103.
3. Dobrea D., Fetecau C., **Birsan D.**, *Experimental Investigation On The Influence Of Testing Speed On The Adhesion Strength Of 2c Overmolded Parts*, Proceedings of the Modern Technologies in Machine Manufacturing Technology ModTech 2011, 25 - 27 May, 2011 Vadul lui Voda - Chisinau, Republic of Moldova
4. Visan D., **Birsan D.**, Mircea O., Constantin E., *FEA of Aluminium FSW: Temperature Field and Stresses*, Annals of DAAAM for 2008 & Proceedings of the 19th International DAAAM Symposium 22-25th October 2008, vol. 19, No1, ISSN 1726-9679, Published by DAAAM International, Vienna, Austria 2008, pp. 1483.

##### D.2. - Papers published in International Conferences Proceedings, indexed in international databases (IDB): 24

1. **Birsan D.**, Scutelnicu E., Investigation of heat transfer in pipeline steel joint performed by tandem submerged arc welding process using finite element movement techniques, International Conference on Innovative Trends in Multidisciplinary Academic Research, October 20-21, 2014. ITMAR © 2014 Istanbul, Turkey. Global Illuminators, Kuala Lumpur, Malaysia.
2. Scutelnicu E., **Birsan D.C.**, Iordachescu M., FEM Model of The Plunge Phase of Friction Stir Welding, 18th Technical Sessions on Welding, 20-22 Octombrie 2010, Madrid – Spania, S1-P6.
3. **Birsan D.**, Constantin E., Visan D., *3D thermal fields distributions and stresses analysis from T - welded joint*, 61st Annual Assembly and International Conference of the International Institute of Welding, Graz, Austria, 10-11 July 2008, ISBN 978-3-85125-019-0, pag. 715-719.
4. Visan D., Constantin E., **Birsan D.**, *The Electromagnetic Agitation of the Electro-Slag Welding Pool*, The Components of the Electro-Thermo-Magnetic Field, 61st Annual Assembly and International Conference of the International Institute of Welding, Graz, Austria, 10-11 July 2008, ISBN 978-3-85125-019-0, pag. 783-787.
5. **Birsan D.**, Visan D., Iordachescu M., *3D thermo-mechanical model of fusion welding*, Proceedings of the 60<sup>th</sup> Annual Assembly and International Conference of International Institute of Welding "Welding & Materials, Technical, Economic and Ecological Aspects", 05-06 July 2007, Croatia, ISBN 978-953-7518-00-4 pp. 647-656
6. Visan, D., Constantin, E., **Birsan, D.C.**, Mircea, O., *The numerical modelling by the method of the finite differences of the electro-slag welding process in electromagnetic field*, Proceedings of the 60<sup>th</sup> Annual Assembly and International Conference of International Institute of Welding "Welding & Materials, Technical, Economic and Ecological Aspects", 05-06 July 2007, Croatia, ISBN 978-953-7518-00-4 pp. 647-656.
7. **Birsan D.**, Scutelnicu E., Visan D., Friction stir welding modelling of deck plates, 38 International Conference Welding in Maritime Engineering, 13-16 May 2009, Bol Croatia, Croatian Welding Society, Pag. 235-240, ISBN 978-953-7518-01-1
8. **Birsan D.**, Visan D., Mircea O., Welding and stress relief simulation of webs and stiffeners joints, 38 International Conference Welding in Maritime Engineering, 13-16 May 2009, Bol Croatia, Croatian Welding Society, Pag. 229-234, ISBN 978-953-7518-01-1
9. Visan D., **Birsan D.**, Mircea O., Theoretical and experimental contribution to the vertical electroslag welding in the electromagnetic field, 38 International Conference Welding in Maritime Engineering, 13-16 May 2009, Bol Croatia, Croatian Welding Society, Pag. 263-270, ISBN 978-953-7518-01-1
10. Mircea O., **Birsan D.**, Visan D., Study about the strain residual stresses of the welding joints by X52 steel, 38 International Conference Welding in Maritime Engineering, 13-16 May 2009, Bol Croatia, Croatian Welding Society, Pag. 255-262, ISBN 978-953-7518-01-1
11. Mircea O., **Birsan D.**, Visan D., Georgescu B., Research regarding the strengths and strains of the welding joints by X52 steel, Creativity Management Technologies, 21-23 May 2009, Chisinau, pag. 133-137, ISBN 978-9975-45-115-4
12. Visan D., **Birsan D.**, Mircea O., The influences of the electro- thermo-magnetic field components to the electro-slag welding pool, Creativity Management Technologies, 21-23 May 2009, Chisinau, pag. 183-187, ISBN 978-9975-45-115-4
13. **Birsan D.C.**, Visan, D., Mircea, O., Analiza distributiei campurilor termice 3D din imbinarile sudate, Conferinta Internationala, Sudura 2007, 26 – 28 septembrie, Timisoara, ISSN 1843-4738, pg. 112-124;
14. **Birsan D.C.**, Visan, D., Mircea, O., Birsan E.A., 3-D Finite element analysis and simulation of welding, International Scientific Conference Modern Technologies, Quality, Restructuring, TMCR 2007, 31 mai – 03 iunie 2007, Chisinau, Republica Moldova, Volumul 4, ISBN 978-9975-45-035-5, pag. 443 – 446;
15. **Birsan D.C.**, Visan D., Mircea O., Birsan E. A., 3-D finite element modeling of the welding process using element movement techniques, International Scientific Conference Modern Technologies, Quality, Restructuring, TMCR 2007, 31 mai – 03 iunie 2007, Chisinau, Republica Moldova, Volumul 4, ISBN 978-9975-45-035-5, pag. 439 – 442;
16. Mircea, O., Visan, D., **Birsan D.C.**, Studiul deplasarilor din imbinarile sudate din otel X52, International Scientific Conference Modern Technologies, Quality, Restructuring, TMCR 2007, 31 mai – 03 iunie 2007, Chisinau, Republica Moldova, Volumul 1, ISBN 978-9975-45-035-5, pg. 510 – 513;
17. Mircea, O., **Birsan D.C.**, Mistodie, L., Deformatii elastice si plastice din imbinarile sudate determinate grafic si analitic, Conferinta Internationala, Sudura 2007, 26 – 28 septembrie, Timisoara, ISSN 1843-4738, pg. 243-249;
18. Visan D., Constantin E., **Birsan D.**, Mistodie L., Simularea numerica a bailor metalice agitate electromagnetice, Lucrarile Conferintei Internationale a ASR "SUDURA 2007", Timisoara, Editura SUDURA, 26-28 Sept. 2007, ISSN 1843 - 4738, pag. 147-155;

19. Vişan D., **Birsan D.**, Mircea O., Magnetic hydrodynamics of a non-compressible liquid, International Scientific Conference Modern Technologies, Quality, Restructuring, TMCR 2007, 31 mai – 03 iunie 2007, Chisinau, Republica Moldova, Volumul 4, ISBN 978-9975-45-035-5, pag. 73-76;
20. **Birsan D.**, Vişan D., Simularea numerică 3D a băii de sudare la sudarea cu arc electric în mediu de gaz protector cu electrod fuzibil, ASR International Conference Quality Management in the Field of Welding on the Edge of Joining Romania at the European Union, Brasov, 20-22 Septembrie 2006, ISBN (10) 973-8359-44-9, pag. 236-244;
21. Vişan D., **Birsan D.**, Modalitati de agitare a bailor de sudare cu campuri electromagnetice, ASR International Conference Quality Management in the Field of Welding on the Edge of Joining Romania at the European Union, Brasov, Romania, 20-22 Septembrie 2006, ISBN (10) 973-8359-44-9, pag. 127-133;
22. **Birsan D.**, Vişan D., Mircea O., Banea M., Finite Difference solution for Analysind the Temperature Field to Welding Heterogeneous Materials, Conferință Științifică Internațională Tehnologii Moderne, Calitate, Restructurare TCMR-2005, ISBN 9975-9748-3-2, Chişinău, Republica Moldova, vol. 1, 19-21 Mai 2005, pag. 47-51;
23. Vişan D., **Birsan D.**, Determinarea componentelor câmpului electro-termo-magnetic în îmbinări sudate în baie de zgură cu agitație magnetică, Proceedings of the International Conference of the Romanian Welding Association, Editura SUDURA, ISBN 973-8359-25-2, Galați, Romania, 28-30 Septembrie 2005, pag. 132-142;
24. Vişan D., **Birsan D.**, Mircea O., Banea M., Parametrii câmpului electro-termo-magnetic la sudarea în baie de zgură cu agitare magnetică prin metoda numerică a diferențelor finite, Conferință Științifică Internațională Tehnologii Moderne, Calitate, Restructurare TCMR-2005, Chişinău, Republica Moldova, vol. 4, 19-21 mai 2005, ISBN 9975-9748-3-2, pag. 167-171.

### D.3. - Papers published in International Conferences Proceedings (ISBN): 9

1. **Birsan D.**, Rusu C., Scutelnicu E., Mistodie L. - Heat Transfer Analysis in API X70 Steel Joints Performed by Double Submerged Arc Welding, Conferința ROMAT 2012.
2. **Birsan D. C.**, Rusu C. C., Visan D., *Welding and stress relief simulation of webs and stiffeners joints*, Advances in Engeneering & Management, Craiova, 19-21 May 2010, ISBN 978-606-510-899-8, pag.117.
3. **Birsan D.C.**, Mircea O., Vişan D., *Simularea sudării cap la cap utilizând tehnica cordonului de sudură dezactivat*, Buletinul Institutului Politehnic din Iași, Publicat de Universitatea Tehnică „Gh. Asachi” din Iași, Tomul LIV(LVIII), Fasc. 3, 2008 ISSN 1011-2855, pag. 17-24;
4. **Birsan D.C.**, Mircea O., Vişan D., *Simularea numerica a procesului de sudare prin frecare*, Buletinul Institutului Politehnic din Iași, Publicat de Universitatea Tehnică „Gh. Asachi” din Iași, Tomul LIV(LVIII), Fasc. 3 2008 ISSN 1011-2855, pag. 11-16;
5. Iordăchescu M., Scutelnicu E., **Birsan D.**, Neniță G., Transferul termic la sudarea prin frecare cu element activ rotitor – FSW, Lucrările Conferinței ASR SUDURA 2008 Noutăți în domeniul materialelor, echipamentelor și proceselor de sudare, 17-19 septembrie 2008, Buzău, Editura Sudura Timișoara, ISSN 1843-4738, pag. 63-75;
6. Mircea O., Vişan D., **Birsan D.C.**, Georgescu B., Joni N, *Studiul comparativ al câmpului termic și a stării de tensiuni și deformații din îmbinarea reală în raport cu tensiunile și deformațiile simulate experimental*, Lucrările Conferinței ASR SUDURA 2008 Noutăți în domeniul materialelor, echipamentelor și proceselor de sudare, 17-19 septembrie 2008, Buzău, Editura Sudura Timișoara, ISSN 1843-4738, pag. 104;
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Assistant Professor PhD. Birsan Dan Catalin

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