



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) IONESCU ADELA JANETA
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E-mail adela0404@yahoo.com, adelajaneta2015@gmail.com, ionescu.adela@ucv.ro
Nationality romanian
Date of birth 18.09.1970
Gender F

Work experience

17 years

Dates	10/2003 to present
Occupation or position held	Lecturer
Main activities and responsibilities	Research and teaching in Department of Applied Mathematics, University of Craiova
Name and address of employer	University of Craiova, 13, A.I. Cuza Street, 200585, Craiova, Dolj, Romania
Type of business or sector	Research and Higher Education
Dates	10/1999 to 10/2003
Occupation or position held	Assistant professor
Main activities and responsibilities	Faculty of Engineering and Management of Technological Systems, University of Craiova.
Name and address of employer	University of Craiova, 13, A.I. Cuza Street, 200585, Craiova, Dolj, Romania
Type of business or sector	Research and Higher Education
Date	1997-1999
Occupation or position held	Mathematician
Main activities and responsibilities	Research in applied engineering
Name and address of employer	Institute of Systems Analysis- INAS, Craiova
Type of business or sector	Applied Research

Education and training

Dates	10/1998-12/2002
Title of qualification awarded	Doctor in Engineering Sciences
Principal subjects/occupational skills covered	Biostatistics, Biotechnology, Industrial Engineering
Name and type of organisation providing education and training	Politechnic University of Bucarest
Level in national or international classification	ISCED 8
Dates	10/1995-06/1996
Title of qualification awarded	Master in mathematics
Principal subjects/occupational skills covered	Applied Mathematics

Name and type of organisation providing education and training	University of Craiova																																								
Level in national or international classification	ISCED 7																																								
Dates	10/1990-06/1995																																								
Title of qualification awarded	License in Mathematics																																								
Principal subjects/occupational skills Covered	Mathematics, Informatics																																								
Name and type of organisation providing education and training	University of Craiova																																								
Level in national or international classification	ISCED 6																																								
Courses attended	2013: Post – graduate course in „Didactics of Mathematics”. A POSDRU 2007-2013 funded project, entitled: „Quality, progress and communication in continuous formation sytem for university teachers 2007: International Summer School „Caracteristic p- Methods in Algebraic Geometry”, Dr. Tr. Severin. Organizers: MH branch of SSMR (The Society of Mathematical Sciences of Romania), and IMAR (Institute of Mathematics of Romanian Academy)																																								
Personal skills and competences																																									
Mother tongue(s)	Romanian																																								
Other language(s)																																									
Self-assessment / Official certificate																																									
European level (*)																																									
English																																									
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	<table border="1"> <thead> <tr> <th colspan="4">Understanding</th> <th colspan="4">Speaking</th> <th colspan="2">Writing</th> </tr> <tr> <th colspan="2">Listening</th> <th colspan="2">Reading</th> <th colspan="2">Spoken interaction</th> <th colspan="2">Spoken production</th> <th colspan="2"></th> </tr> </thead> <tbody> <tr> <td>B2</td> <td>Independent user</td> <td>B2</td> <td>Independent user</td> <td>B2</td> <td>Independent user</td> <td>B2</td> <td>Independent user</td> <td>B2</td> <td>Independent user</td> </tr> <tr> <td>B2</td> <td>Independent user</td> <td>B2</td> <td>Independent user</td> <td>B2</td> <td>Independent user</td> <td>B2</td> <td>Independent user</td> <td>B2</td> <td>Independent user</td> </tr> </tbody> </table>	Understanding				Speaking				Writing		Listening		Reading		Spoken interaction		Spoken production				B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user
Understanding				Speaking				Writing																																	
Listening		Reading		Spoken interaction		Spoken production																																			
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	<p>Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user (* Common European Framework of Reference for Languages.)</p>																																								
Social skills and competences	Works well in teams																																								
Organisational skills and competences	Attention to details, Focus oriented																																								
Computer skills and competences	Good command of Microsoft Word™, MatLab, Maple, C++, Scientific WorkPlace, Latex																																								
Domains of competence	Differential Equations and Dynamical Systems; Computational Fluid Dynamics; Qualitative Analysis and Optimization Techniques for industrial models																																								
Additional informations																																									
Memberships	SSMR -member ROMAI (Romanian Society of Applied and Industrial Mathematics) – member IAENG (International Association of Engineering) – member Romanian Society of Bioengineering – member ESF (European Scientific Foundation) - member																																								
Reviewer/ Associate Editor	IST Transactions (International Science and Technology Group) Canada – reviewer WMSCI Florida, SUA – permanent reviewer FILOMAT, Univ os Nis, Serbia – reviewer Engineering Applications of Computational Fluid Mechanics, Hong Kong Politechnic University – reviewer InTech Press, NoviSad, Croatia – Associate Editor																																								
Citations	28 citations in Google Scholar, 8 citations in Scopus papers, 5 citations in ISI Web of Science																																								
Courses (taught)	Statistics, at undergraduate level, Faculty of Mechanics; Mathematical Analysis, undergraduate level, Faculty of Mechanics; Special Mathematics, undergraduate level, Faculty of Mechanics; Informatics Systems in Logistics, master level, Faculty of Mechanics.																																								

Conferences attended 40 International Conferences since 1994
Publications (In an Annex, at the end of CV, and inserted below.)

Monographs:

- Costescu, M., Ionescu, A, Informational processing of measuring data, Universitaria Press Craiova, 2004, ISBN: 973-8043-298-8
- Grecu, L., Ionescu, A, Algebra chapters, Ed. Universitaria Press, 2004, ISBN: 973-8043-75
- Ionescu, A., Costescu, M., Grecu, L., Elements of numeric calculus. Computational models. Universitaria Press, Craiova, 2005, ISBN: 973-742-155-8
- Ionescu, A., Informational processing of measuring data (second edition), Reprograph Press Craiova, 2007, ISBN: 978-973-671-142-8
- Ionescu, A. Recent trends in computational modeling of excitable media dynamics. Lambert Academic Press 2010, Saarbrucken, Germany. ISBN 978-3-8383-9316-2
- Ionescu A., Recent trends in computational dynamics of excitable media. Aius Press Craiova 2011, ISBN: 978-606-562-075-9

Chapters in books:

- Ionescu, A., Influence of simulation parameters on the excitable media behavior – The case of turbulent mixing, in Thermodynamics. Fundamentals and its applications in science. Ricardo Morales-Rodriguez (Ed.). InTech Press, Novisad, Croatia, 2012, pp 419-445, ISBN 978-953-51-0779-8

ISI Journals:

- Coman, D., Ionescu, A., "Computational analysis of the Cauchy problem associated to the kinematic model of a mobile robot". Boundary Value Problems (Springer Open Journal) 2013, **2013**:138. doi:10.1186/1687-2770-2013-138
- Ionescu, A., Coman, D., New approaches in computational dynamics of mixing flow. Applied Mathematics and Computation, vol.218, issue3, (oct.2011), pp. 809-816, ISSN 0096-3003
- Ionescu, A., Costescu, M., The influence of parameters on the phaseportrait in the mixing model. Int. J. of Computing, Communications, Control, vol.3 (2008), suppl. issue: Proceedings of ICCCC2008, pag. 333-337, ISSN 1841-9836
- Ionescu, A., Costescu, M., Computational Aspects in Excitable Media. The case of vortex phenomena. Int.J. of Computing, Communications, Control, vol1(2006), Suppl. Issue: Proceedings of ICCCC2006, pp. 280-284, ISSN 1841-9836

Other relevant papers: see ANNEX 1

Lecturer dr. Adela Janeta Ionescu

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BDI

- Ionescu, A., Munteanu, F., "A geometrical and computational analysis of Chua's circuit system". 2016 International Conference on Applied and Theoretical Electricity (ICATE), IEEE Xplore, pp 1-5, ISBN 978-1-4673-8563-3, <http://ieeexplore.ieee.org/document/7754602>
- Ionescu, A., Lefebvre, M., Munteanu, F., "Optimal Control of a Stochastic Version of the Lotka Volterra model", General Mathematics, vol 24, No1, 2016, pp 3-10, ISSN 1221-5023
- Ionescu, A., Munteanu, F., "On the feedback linearization for the 2d prey-predator dynamical systems", Bulletin of Politechnic University Timisoara, Mathematics-Physics Series, No60(74), Vol2, 2015, pp 17-25, ISSN 1224-6069
- Ionescu, A., Militaru, R., Munteanu, F., "Geometrical Methods and Numerical Computations for Prey-Predator Systems". British Journal of Mathematics & Computer Science, vol.10(5), 2015, pp.1-15. doi : 10.9734/BJMCS/2015/19270
- Ionescu, A., Coman, D., "Computational Analysis for the Dynamical System Associated to an Access Control Structure". British Journal of Mathematics & Computer Science, vol 11(3), 2015, pp 1-13, doi: 10.9734/BJMCS/2015/19280
- Ionescu, A., Coman, D., Qualitative behavior of mixing phenomena – the case of axisymmetric extensional flows. Proceedings of International Conference NOLASC'08 (Non-Linear Analysis and Chaos), 26-28.10.2008, Corfu, Grecia
- Ionescu, A., Recent challenges in turbulence: computational features of turbulent mixing. Recent advances in Continuum Mechanics (Proceedings of the 4th IASME/WSEAS International Conference), Mathematics and Computers in Science and Engineering, Cambridge U.K., 24-26 feb 2009, pag. 29-38, ISSN 1790-2769
- Coman, D., Ionescu, A., Performance evaluation of a flexible Manufacturing system using timed Petri Nets, Proceedings of DAAAM 2009, Wien, 25-28 nov 2009, pag. 1815-1817, ISSN 1726-9679
- Coman, D., Ionescu, A., Motion control on the soccer robot based on fuzzy logic. Advances in Computational Science (Proceedings of the 6-th International Conference of Computational Methods in Science and Engineering ICCMSE), 25-30.09.2008, Creta, Greece, pag. 57-60, ISSN 0094-243X
- Ionescu, A., Savu, D., Savu, S., Coman, D. Computational features of flow modeling in nano-structured sensors, AIP Conference Proceedings 1117 (Proceedings of the 1 st International Conference Bio-Inspired Computational Methods used for Solving Difficult Problems - BICS2008), 05-07 nov 2008, Tg Mures Romania, pag. 125-133, ISSN 0094-243X

BDI, B+, CNCSIS

- Coman, D., Ionescu, A., Mobile Robot Trajectory Analysis Using Computational Methods. Advanced Materials Research, vol 837(2014), pp. 549-554, Trans Tech Publications, Switzerland. doi:10.4028/www.scientific.net/AMR.837.549
- Coman, D., Ionescu, A., Simulation and Performance Analysis of a FMS/CIM using Stochastic Timed Petri Nets. Advanced Materials Research, vol 837(2014), pp. 322-327, Trans Tech Publications, Switzerland. doi:10.4028/www.scientific.net/AMR.837.322
- Ionescu, A., Coman, D., Parameter case simulation for mobile robot kinematics. Advances in Engineering and Management, ADEM2012, Universitaria Pres Craiova, 2012, pp. 189-193, ISBN 978-606-14-0562-6
- A. Ionescu, A., Nicolicescu, C., Bucse, I., Ghercioiu, J., Modelling and simulating the pressing process of iron powders with different particle sizes. Recent (Industrial Engineering Journal), Univ. Transilvania Brasov, vol12 (2011), no3(33), pag. 307-311, ISSN 1582-0246
- Ionescu, A., Coman, D., Improving the behavior quality of excitable media phenomena using recent computational tools. Recent (Industrial Engineering Journal), Univ. Transilvania Brasov, vol 10(2009), no3(27), pag. 303-309, ISSN 1582-0246
- Coman, D., Ionescu, A., Florescu, M., Manufacturing system modeling using Petri Nets. Recent (Industrial Engineering Journal), Univ. Transilvania Brasov, vol 10(2009), no3(27), pag. 207-213, ISSN 1582-0246
- Bucse, I., Ciupitu, I., Ionescu, A., The analysis of the technological parameters influence in obtaining the alloyed sintered steels by two-steps sintering. Recent (Industrial Engineering Journal), Univ. Transilvania Brasov, vol 10(2009), no3(27), pag. 181-187, ISSN 1582-0246
- Ionescu, A., New approach for the turbulent mixing study – the behavior of vortical flows from computational standpoint. Acta Universitatis Apulensis Journal, Special Issue – Proceedings of the International Conference on Theory and Applications of Mathematics and Informatics ICTAMI 2009, Aeternitatis Publishing House, Alba Iulia 2009, pag. 13-22, ISSN 1582-5329
- Ionescu, A., Sebes, G., Savu, S., Analytic and experimental processing of the termic cycle for one-direction microwave field welding. ASR Proceedings, 30.09-20.10.2009, "Welding Press" Tr. Severin, pag. 171-178, ISSN 1843-4738
- Ionescu, A., Some qualitative features of 2D periodic mixing model. Acta Universitatis Apulensis (Mathematics/Informatics), no 15 (2008), pag. 387- 396. ISSN: 1582-5329
- Ionescu, A., Savu, D., Savu, S., Coman, D., Computational features of flow modeling in nanostructured sensors. Proceedings of International Conference BICS'08, 06-07.11.2008, Univ. Petru Maior, Tg Mures
- Coman, D., Ionescu, A., Petrisor, A., Petri nets based approaches to the control of the soccer robots. Bull of Trans Univ of Brasov, vol 15 (50), series A, Spec. issue, Proc of 4-th International Conference if Robotics, 13-14.11.2008, pag. 237-244, ISSN 1223-9631
- Ionescu, A., Some qualitative features of 2D periodic mixing model. Acta Universitatis Apulensis (Mathematics/Informatics), no 15 (2008), pag. 387- 396. ISSN: 1582-5329

- Ionescu, A., Coman, D., Costescu, M., A Computational Approach of Turbulent Mixing. The trajectories analysis. Recent Journal, vol 8 (2007), no 3b, edited by: Transilvania University, CCMSP, and CES-PROMAT Brasov .ISSN : 1582-0246, pag. 498-501
- Costescu, M., Ionescu, A., The data quality, basic condition for the soundings results. The Annals of Social Researches Institute „C. Nicolaescu-Plopsor ”, VIII/2007, p.337-346, ISSN 1841-0898.
- Ionescu, A. Some qualitative features of turbulent mixing for far from equilibrium phenomena. Acta Universitatis Apulensis (Mathematics- Informatics), Univ. din Alba-Iulia, vol 11/2006, pag 19-29, ISSN: 1582-5329
- Ionescu, A. The qualitative study of the mixing for the tendril-whorl flow. Proceedings of ICEEMS2005 (International Conference on Economic Engineering and Manufacturing Systems), 20-22.10.2005, pag 197-202, ISBN: 973-635-592-6
- Ionescu, A. Aspects of the qualitative analysis of periodic turbulent two-dimensional systems. Proceedings of International Conference NavMarEdu2005. 02-04.06.2005, Constanta, pag 183-191, ISBN: 973-8303-54-0
- Ionescu, A. Generic properties for two-dimensional systems. General Mathematics Review, vol 11, nr.3/4, 2003, Sibiu, pag 53-60, ISSN 1211-5023
- Ionescu, A. Evaluation in discrete time for 3D systems of multiphase turbulent flow Proceedings of International Conference on Economic Engineering and Manufacturing Systems, Brasov, 23-24.10.2003, pag 217-224, ISBN: 973-635-216-1
- Ionescu, A. Numeric simulation in discrete time for 3D turbulent mixing. Proceedings of CSCS14 (The 14-th International Conference on Control Systems and Computer Science, Politechnic Univ.Bucarest). 2-5.07.2003, vol2, pag 535-540, ISBN: 973-8449-17-0
- Ionescu, A., Challenges in biomathematics: recent results on modeling the excitable media. Proceedings of International Conference “Several Aspects of Biology, Chemistry, Computer Science, Mathematics and Physics”, Univ of Oradea, 2005, pag 29-41. ISBN: 973-759-142-9.
- Ionescu, A., Asimptotic behavior in vortex phenomena: significant events. ROMAI Journal, vol 2 no2 (2006), pag 89-93, ISSN: 1841-5512
- Ionescu, A. The discrete time analysis of the turbulence in excitable media, ROMAI J., Vol I no2 (2005), pag. 109-113, ISSN: 1841-5512

OTHER MARKS

- Ionescu, A., Costescu, M. Approach to Categorization and Labeling of Qualitative Data. Rev de Stiinte Politice, vol 11(2006), pag 84-88, ISSN: 1584-224X
- Ionescu, A., Costescu, M. Special features in turbulent mixing. Comparison between periodic and non periodic case. Surveys in Mathematics and its applications, vol 1(2006) pag. 33-41, ISSN: 1842-6298
- Ionescu, A., New features in simulating the behavior of turbulent mixing flow. The 16-th Conference on Applied and Industrial Mathematics (CAIM2008), Oradea, 09-12.10.2008
- Ionescu, A., Costescu, M., Numerical approaches in turbulent mixing. The perturbed 2D model. CAIM2007 (The 15-th Conference on Applied and Industrial Mathematics), Pitesti, 14-16.10.2007
- Coman, D., Petrisor, A., Ionescu, A., Florescu, M., Role selection mechanism for the Soccer Robot System using Petri Net. EUROCON 2007 Proceedings, editat de Warsaw University of Technology, ISBN: 1-4244-0813-X, pag. 662-667.
- Ionescu, A., Costescu, M. Rare events in Vortex Phenomena. Qualitative Features. Proceedings of International Conference MATEHN'06 (Materials and Manufacturing Technologies), 21-23.09.2006, Cluj-Napoca.
- Ionescu, A., Costescu, M. The parameter influence in the study of rare events in mixing phenomena. Proceedings of CAIMXIV (The XIVth Conference on Applied and Industrial Mathematics), 17-19.08.2006, Chisinau, Moldova Republic .
- Ionescu, A. Spline functions for approaching elementary numeric analysis. Review of the Society of Mathematical Sciences Mehedinti, no. 1/2004, pag 10-13
- Ionescu, A. Mathematical patterns associated to activator-inhibitor mechanisms. Proceedings of the workshop “Actuators in Bioengineering”. Politechnic University Bucarest, 11.06.1999.
- Ionescu, A., Georgescu, A. The existence of a center manifold for the normalized Gierer-Meinhardt system. Proceedings of CAIM VII, 13-15.10.1999. Bucarest.
- Ionescu, A. Reducing the pray-predator dynamic systems with the center manifold method. Proceedings of the workshop „Modern Biotechnologies and Environment Problems”. 24. 04. 1998, Politechnic University Bucarest.
- Georgescu, A., Ionescu, A. Dynamics and bifurcation in a biological model. Proceedings of the Conference on Dynamical Systems in Biology and Medicine. Univ. of Veszprem. 17-20 .07. 1996, Veszprem, Ungaria
- Ionescu, A., Georgescu, A. On the existence of a center manifold for a biological system. Proceedings of CAIM IV, 14-17 .10.1996, Bucarest.
- Ionescu, A. On Kneser type theorems for linear differential equations in Banach spaces. Proceedings of CAIM III, 15-17.10.1995, Bucarest.
- Ionescu, A. Two possibilities of minimization for the renewal function. Proceedings of CAIM II, 14-16.10. 1994, Bucarest.
- Ionescu, A. On the minimum criterion in optimal models for the left ventricular ejection, Proceedings of CAIM II, 14-16 .10. 1994, Bucarest.