

Activitatea stiintifica

Conf.dr.ing. Mihnea Alexandru MOISESCU

1. Lista publicațiilor științifice (2000-2018)

• Monografii, Capitle de carte(edituri internaționale)

1. "Towards Digital Business EcoSystem Analysis", autori: Aurelian Mihai Stanescu, Lucian Ionescu, Vasile Georgescu, Mihnea Moiescu, Ioan Sacala publicat in: "Towards Digital Business EcoSystem Analysis" Handbook on Business Information Systems, World Scientific Publishing Co Pte Ltd (Singapore), 2010, ISBN10: 9812836055, pg 607-638
2. "An EI/EC Pilot in a Construction Supply Chain", autori: Aurelian Mihai Stanescu, Mihnea Alexandru Moiescu, Ioan Stefan Sacala, The COIN Book , Enterprise Collaboration and Interoperability, Patrick Sitek, Sergio Gusmeroli Marco Conte, Kim Jansson, Iris Karvonen (Editors) , pp 95-99, Verlagsgruppe Mainz GmbH Aachen, ISBN 3-86130-713-8, 2012

• Monografii, Capitle de carte (edituri naționale)

1. Calin Munteanu, Simona Iuliana Caramihai, Mihnea Moiescu, Ioan Stefan Sacala "Sisteme Dinamice cu Evenimente Discrete", Editura Printech, ISBN 978-606-521-199-5, 2011
2. Mihnea Alexandru Moiescu, Ioan Stefan Sacala, "Managementul ciclului de viata al proiectelor", ISBN 978-606-23-0324-2, Editura Printech 2014, cod CNCSIS 54
3. Ioan Stefan Sacala, Mihnea Alexandru Moiescu, "Management de proiect pentru dezvoltarea sistemelor informationale" – ISBN 978-606-23-0325-9, Editura Printech 2014, cod CNCSIS 54
4. Ioan Stefan Sacală si Mihnea Alexandru Moiescu, Sisteme de întreprindere bazate pe internetul viitorului - ISBN 978-606-23-0887-2, Editura Printech 2018, cod CNCSIS 54
5. Ioan Stefan Sacală si Mihnea Alexandru Moiescu, Sisteme de întreprindere bazate pe internetul viitorului - ISBN 978-606-23-0887-2, Editura Printech 2018, cod CNCSIS 54

• Articole în reviste și în volume proceedings de conferințe (indexate ISI)

1. Aurelian M. Stanescu, Lucian M. Ionescu, Adina Florea, C.Serbanescu, Mihnea A. Moiescu, Ioan S. Sacala, *Towards great challenge for Enterprise Science within Knowledge – based Society paradigm*, INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL Volume: 3 Pages: 491-496 Published: 2008, Publisher: CCC PUBL-AGORA UNIV, PIATA TINERETULUI 8, ORADEA, JUD, BIHOR, 410526, ROMANIA, ISSN: 1841-9836, indexate ISI Thomson Reuters, WOS:000257497600081
2. Costetchi, N., Stanescu, A. M., Alexandru, M., Moiescu, I. S. Sacala, & Banta, V. C. (2015). FOCUSED-LIQUID ENTERPRISE SYSTEM ARCHITECTURE TO SUPPORT E-HEALTH APPLICATIONS. UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN SERIES C-ELECTRICAL ENGINEERING AND COMPUTER SCIENCE, 77(4), 55-68. WOS:000421811300005
3. Viorel Costin BANTA, Dorian COJOCARU, Mihnea Alexandru MOISESCU, Ioan Stefan SACALA, Software Design for Oil Industry Metrology Systems, Studies in Informatics and Control, ISSN 1220-1766, vol. 23 (4), pp. 359-371, 2014, WOS:000346943300006
4. Stegaru, G., Danila, C., Sacala, I. S., Moiescu, M., & Stanescu, A. M. (2015). E-Services quality assessment framework for collaborative networks. Enterprise Information Systems, 9(5-6), 583-606. DOI: 10.1080/17517575.2013.879213 WOS:000349799800006, ISSN:

1751-7575, eISSN: 1751-7583 - 2015 Rank Q1 23/144 journals in Categories COMPUTER SCIENCE, INFORMATION SYSTEMS

5. VLĂDĂREANU, Victor, Ioan DUMITRACHE, Luige VLĂDĂREANU, Ioan Ștefan SACALĂ, Gabriela TONȚ, and Mihnea Alexandru MOISESCU. "Versatile Intelligent Portable Robot Control Platform Based on Cyber Physical Systems Principles.", STUDIES IN INFORMATICS AND CONTROL, Volume: 24 Issue: 4 Pages: 409-418, Published: DEC 2015, WOS:000366543700005
6. Alix Vargas, Llanos Cuenca, Andres Boza, Ioan Sacala, Mihnea Moiescu, Towards the development of the framework for inter sensing enterprise architecture, Journal of Intelligent Manufacturing, 2016, Print ISSN 0956-5515, Online ISSN 1572-8145, DOI 10.1007/s10845-014-0901-z, Springer Eds, WOS:000368727300004 - 2016 Rank Q1 9/44 journals in Categories Engineering, Manufacturing
7. Ioan Sacala, Mihnea Moiescu, Towards the Development of Interoperable Sensing Systems for the Future Enterprise, Journal of Intelligent Manufacturing, 2016, Print ISSN 0956-5515, Online ISSN 1572-8145, DOI 10.1007/s10845-014-0900-0, Springer Eds, WOS:000368727300003 - 2016 Rank Q1 9/44 journals in Categories Engineering, Manufacturing - 2016 Rank Q1 9/44 journals in Categories Engineering, Manufacturing
8. Vargas, A. Day, Saumen, Boza, A, Ortiz, A ; Ludascher, B ; Sacala, IS ; Moiescu, MA (2016). Decision-Making System and Operational Risk Framework for Hierarchical Production Planning. Journal of Control Engineering and Applied Informatics, 18(3), 72-81. WOS:000384513100008 ISSN: 1454-8658
9. Repta, D., Moiescu, M. A., Sacala, I. S., Dumitrache, I., & Stanescu, A. M. (2017). Towards the development of semantically enabled flexible process monitoring systems. International Journal of Computer Integrated Manufacturing, 30(1), 96-108. DOI: 10.1080/0951192X.2015.1107914 WOS:000388918000009 ISSN: 0951-192X eISSN: 1362-3052 - 2017 Rank Q2 23/46 journals in Categories Engineering, Manufacturing
10. Feier, F., Silea, I., Angelescu, C., Sacala, I. S., & MOISESCU, M. (2017). Sound Analysis System of Newborn Cry during Blood Draw with Cerebral Oximetry Monitoring. Journal of Control Engineering and Applied Informatics, 19(2), 11-19. WOS:000404695500002 ISSN: 1454-8658
11. Dumitrache, I., Sacala, I. S., Moiescu, M. A., & Caramihai, S. I. (2017). A conceptual framework for modeling and design of Cyber-Physical Systems. Studies in Informatics and Control, 26(3), 325-334. WOS:000412715700008, ISSN: 1220-1766
12. Repta Dragos, Ioan Dumitrache, Ioan Stefan Sacala, Mihnea Alexandru Moiescu, Aurelian Mihai Stanescu, and Simona Iuliana Caramihai. "Automated process recognition architecture for cyber-physical systems." Enterprise Information Systems (2018): Volume: 12 Issue: 8-9 Pages: 1129-1148, IF: 1.683 (2017) WOS:000446349200011 ISSN: 1751-7575 eISSN: 1751-7583
13. A.M.Stanescu, M.A.Moiescu, I.S.Sacala; A Nita, From Industrial Robotics Towards Intelligent Robotic Systems, Source: 4th International IEEE Conference Intelligent Systems, Vols 1 And 2, Pages: 306-310 Published: 2008, Publisher: IEEE, 345 E 47th St, New York, Ny 10017 USA, ISBN: 978-1-4244-1739-1 , Proceedings of the 4th International IEEE Conference Intelligent Systems, Date: SEP 06-08, 2008 Varna BULGARIA , WOS:000263194700050
14. Aurelian Mihai Stanescu, Mihnea Alexandru Moiescu, Ioan Stefan Sacala; Complexity Issues Regarding Intelligent Robotic Systems, International Conference on Complexity and Intelligence of the Artificial and Natural Complex Systems - Medical Applications of the Complex Systems Biomedical Computing, Date: NOV 08-10, 2008 Petu Maior Univ Tg Mures ROMANIA Source: Complexity In Artificial And Natural Systems, Proceedings Pages: 31-36 Published: 2008, Publisher: Editura Universitatii Petru Maior Targu-Mures, Str N Lorga Nr 1, Tg MureS, 540088, Romania, ISBN: 978-973-7794-76-5, WOS:000264924800004
15. Mihail Dumitru Sacala, Aurelian Mihai Stanescu, Monica Dragoicea, Mihnea Alexandru Moiescu, Ioan Stefan Sacala, Towards the Development of the Probability Calculation Methods for the Appearance and Development of Entity Inter-Connections within a Digital Bussiness EcoSystem, Source: ADVANCES IN MANUFACTURING ENGINEERING, QUALITY AND PRODUCTION SYSTEMS, : Lepadatescu D, Mastorakis N. E. VOL I Book Series: Mathematics and Computers in Science and Engineering , Pages: 188-193, Published: 2009, ISBN: 978-960-474-121-2, ISSN: 1790-2769, Published by WSEAS Press

- 2009, Proceedings of the 1st International Conference on Manufacturing Engineering, Quality And Production Systems (MEQAPS '09), Transilvania University of Brasov, Romania, September 24-26, 2009, WOS:000275966900030
16. Stanescu, Aurelian Mihai; Moiescu, Mihnea Alexandra; Sacala, Ioan Stefan, Towards the Development of Internet of Things Oriented Robot to Object Interaction Framework; Conference: 5th International Conference on Optimization of the Robots and Manipulators (OPTIROB 2010) Location: Calimanesti, ROMANIA Date: MAY 28-30, 2010 Sponsor(s): POLITEHNICA Univ Bucharest, Machine & Mfg Syst Dept; Romanian Acad Tech Sci, Mech Branch; PROCEEDINGS OF THE FIFTH INTERNATIONAL CONFERENCE ON OPTIMIZATION OF THE ROBOTS AND MANIPULATORS, 2010 Pages: 251-255 Published: 2010; ISBN: 978-981-08-5840-7 DOI: 10.3850/978-981-08-5840-7_S9-3; WOS:000392682500045"
 17. Calin Munteanu, Simona Caramihai, Mihnea Alexandru Moiescu and Ioan Stefan Sacala „Using Hybrid Petri Nets for Performance Analysis in Manufacturing Systems” SERVICE ORIENTATION IN HOLONIC AND MULTI-AGENT MANUFACTURING CONTROL Book Series: Studies in Computational Intelligence Volume: 402 Pages: 129-142 Published: 2012, Publisher: SPRINGER-VERLAG BERLIN, HEIDELBERGER PLATZ 3, D-14197 BERLIN, GERMANY, ISSN: 1860-949X, ISBN: 978-3-642-27448-0, Proceedings of: International Workshop on Service Orientation in Holonic and Multi-Agent Manufacturing Control (SOHOMA 2011), JUN 20-21, 2011, WOS:000309734000019
 18. Stanescu, AM, Moiescu, MA, Sacala, IS, Burlacu, G, Integrating e-IMS Platform via Interoperability within Collaborative Enterprise, Source: SERVICE ORIENTATION IN HOLONIC AND MULTI-AGENT MANUFACTURING CONTROL, Editor(s): Borangiu, T; Thomas, A; Trentesaux, D Book Series: Studies in Computational Intelligence, Volume: 402 Pages: 129-142 Published: 2012 Proceedings of: International Workshop on Service Orientation in Holonic and Multi-Agent Manufacturing Control (SOHOMA 2011), JUN 20-21, 2011, ISBN:978-3-642-27448-0 ISSN: 1860-949X WOS:000309734000010
 19. I. Lolu, A. Stanescu, M. Moiescu, I. Sacala, “Distributed task allocation in multi-robot systems using argumentation-based negotiation” Source: ADVANCED MATERIALS RESEARCH II, PTS 1 AND 2 Book Series: Advanced Materials Research, Editor(s): Fan, W, Volume: 463-464 Pages: 1238-1241 DOI: 10.4028/www.scientific.net/AMR.463 464.1238 Published: 2012, Proceedings of: 2nd International Conference on Advanced Material Research (ICAMR 2012), Chengdu, China, 07-08 Jan. 2012. WOS:000308114100243
 20. Stanescu, Aurelian; Moiescu Mihnea; Sacala, Ioan, “Towards the Development of Internet of Things oriented Robot to Object Interaction Framework” , Source: ADVANCED MATERIALS RESEARCH II, PTS 1 AND 2 , Book Editor(s): Fan, W, Book Series: Advanced Materials Research Volume: 463-464 Pages: 1321-1323 DOI: 10.4028/www.scientific.net/AMR.463-464.1321 Published: 2012, Proceedings of: 2nd International Conference on Advanced Material Research (ICAMR 2012) Location: Chengdu, PEOPLES R CHINA Date: JAN 07-08, 2012, WOS:000308114100262
 21. Stegaru, G, Danila, C, Sacala, IS, Moiescu, M, Stanescu, AM, Quality Driven Web Service Composition Modeling Framework, in COLLABORATIVE NETWORKS IN THE INTERNET OF SERVICES Book Series: IFIP Advances in Information and Communication Technology, Eds: CamarinhaMatos, LM, Xu, L, Afsarmanesh, Volume: 380, Pages: 87-95, Published: 2012, Proceedings of 13th IFIP WG 5.5 Working Conference on Virtual Enterprises (PROVE-VE 2012). WOS:000321076200009
 22. Ioan Stefan Sacala,Dragos Repta, Mihnea Moiescu, Aurelian Mihai Stanescu, „Semantic Middleware Architecture”, Applied Mechanics and Materials Vol. 436 (2013) pp 488-496, (2013), Trans Tech Publications, Switzerland, ISSN: 1662-7482 doi:10.4028/www.scientific.net/AMM.436.488 WOS:000332261000063
 23. Repta Dragos, Ioan Stefan Sacala, Mihnea Alexandru Moiescu „Towards the Development of the Future Internet based Enterprise in the Context of Cyber-Physical Systems”, 19th International Conference on Control Systems and Computer Science, 29-31 May 2013, pp. 405-412, ISBN: 978-1-4673-6140-8, WOS:000328493800062
 24. Costetchi Natalia, Stanescu Aurelian Mihai ,Moiescu Mihnea Alexandru, Sacala Ioan Stefan, „A Holistic Vision of Medical Services and Information Support System Based on E-Healthcare Framework” Applied Mechanics and Materials Vol. 436 (2013) pp 497-504, (2013)

25. Georgiana Stegaru, Mihnea Moisescu, Ioan Stefan Sacala, Aurelian Mihai Stanescu, „Quality Modeling Framework for Service Composition. An Indoor Air Quality Monitoring System Case Study”, Applied Mechanics and Materials Vol. 436 (2013) pp 480-487, (2013) Trans Tech Publications, Switzerland , ISSN: 1662-7482 doi:10.4028/www.scientific.net/AMM.436.480 , WOS:000332261000062
26. Natalia, C., Alexandru, Mihnea, Moisescu., Mihai, S. A., Stefan, Sacala. I., & Munteanu, C. A. (2013, November). Medical services modelling based on business process model framework. In E-Health and Bioengineering Conference (EHB), 2013 (pp. 1-4). IEEE. Accession Number: WOS:000346672900048 ISBN:978-1-4799-2372-4
27. Natalia, C., Alexandru, Mihnea. Moisescu M., Mihai, S. A., Stefan, Sacala. I., & Munteanu, C. A. (2013, November). Enterprise architecture for e-Health system. In E-Health and Bioengineering Conference (EHB), 2013 (pp. 1-4). IEEE. WOS:000346672900033, ISBN:978-1-4799-2372-4"
28. Stanescu Ioana Andreea, Aurelian Mihai Stanescu, Mihnea Moisescu, Ioan Stefan Sacala, Antoniu Stefan, and Jannicke Baalsrud Hauge. "Enabling interoperability between serious game and virtual engineering ecosystems." In ASME 2014 International Design Engineering Technical Conferences and Computers and Information in Engineering Conference, American Society of Mechanical Engineers, 2014. Paper No. DETC2014-35418, pp. V01BT02A045; 7 pages doi:10.1115/DETC2014-35418 Accession Number: WOS:00037998710004; ISBN:978-0-7918-4629-2
29. Repta, Dragos, Aurelian Mihai Stanescu, Mihnea Alexandru Moisescu, Ioan Stefan Sacala, and Monika Benea. "A cyber-physical systems approach to develop a generic enterprise architecture." In Engineering, Technology and Innovation (ICE), 2014 International ICE Conference on, pp. 1-6. IEEE, 2014, Book Series: International ICE Conference on Engineering Technology and Innovation ISBN:978-1-4799-4735-5, ISSN: 2334-315X WOS:000345855900019
30. Stanescu, Aurelian Mihai, Dragos Repta, Mihnea Alexandru Moisescu, Ioan Stefan Sacala, and Monika Benea. "Towards a Generic Enterprise Systems Architecture Based on Cyber-Physical Systems Principles." In Collaborative Systems for Smart Networked Environments, IFIP Advances in Information and Communication Technology Volume 434, 2014, pp 245-252, Springer Berlin Heidelberg, 2014, DOI 10.1007/978-3-662-44745-1_24, Print ISBN 978-3-662-44744-4, Online ISBN 978-3-662-44745-1, WOS:000360082700024
31. Sacala, I. S., Moisescu, M. A., Munteanu, I. D. C. A., & Caramihai, S. I. (2015). Cyber Physical Systems Oriented Robot Development Platform. Procedia Computer Science, 65, 203-209. INTERNATIONAL CONFERENCE ON COMMUNICATIONS, MANAGEMENT, AND INFORMATION TECHNOLOGY (ICCMIT'2015) Book Series: Procedia Computer Science Volume: 65 Pages: 203-209 Published: 2015 WOS:000373831000023
32. Dragos, R., Sacala, I. S., Moisescu, M. A., Munteanu, C., & Stanescu, A. M. (2015, February). Modelling and analysis of process execution based on data acquired from sensors networks. In Model-Driven Engineering and Software Development (MODELSWARD), 2015 3rd International Conference on (pp. 618-625). IEEE.WOS:000380426000065 ISBN:978-9-8975-8136-6
33. Repta, D., Moisescu, M. A., Sacala, I. S., Stanescu, A. M., & Neagu, G. (2015, May). Automated Process Mapping for Cyber Intelligent Enterprise. In Control Systems and Computer Science (CSCS), 2015 20th International Conference on (pp. 679-686). IEEE. Accession Number: WOS:000380375200099 ISBN:978-1-4799-1780-8
34. Bogdan Gabriel Sandu, Alexandru Mihnea Moisescu, Alexandru Mihai Tomulescu, Ioan Stefan Sacala, Forest fire preventing system: Requirements and challenges, 2017 International Young Engineers Forum YEF-ECE 2017, 5 May 2017, Caparica, Portugal, IEEE, DOI: 10.1109/YEF-ECE.2017.7935635, pp. 24-29, IEEE, WOS:000403407200005, ISBN: 978-1-5090-4639-3
35. Dumitrache, Ioan, Simona Iuliana Caramihai, Ioan Stefan Sacala, and Mihnea Alexandru Moisescu. "A Cyber Physical Systems Approach for Agricultural Enterprise and Sustainable Agriculture." In Control Systems and Computer Science (CSCS), 2017 21st International

- Conference on, pp. 477-484. IEEE, 2017. Indexat IEEE, ISI, DOI: 10.1109/CSCS.2017.74 WOS:000449004400067 ISBN:978-1-5386-1839-4
36. Pop, Eugen, Mihnea Alexandru Moiescu, and Ioan Stefan Sacala. "A Cyber-Physical Systems Oriented Transaction Platform." In Control Systems and Computer Science (CSCS), 2017 21st International Conference on, pp. 493-499. IEEE, 2017. Indexat IEEE, ISI WOS:000449004400069, ISBN:978-1-5386-1839-4
 37. Repta, Dragos, Mihnea Alexandru Moiescu, Andrei Corneliu Nae, Ioan Stefan Sacala, and Ioan Dumitrache. "Towards Document Flow Discovery in e-Government Systems." In 2018 International Symposium on Electronics and Telecommunications (ISETC), Book Series: International Symposium on Electronics and Telecommunications Pages: 351-354. IEEE, 2018. Publisher IEEE, 345 E 47TH ST, NEW YORK, NY 10017 USA ISBN:978-1-5386-5925-0, ISSN: 2475-787X WOS:000463031500078
 38. Zheng, Huiru, Jyotsna Talreja Wassan, Mihnea Alexandru Moiescu, Lacramioara Stoicu-Tivadar, João Miranda, Mihaela Crisan-Vida, Ioan Stefan Sacala, Almir Badnjevic, Ivan Chorbev, and Boro Jakimovski. "Multiscale Computing in Systems Medicine: a Brief Reflection." In 2018 IEEE International Conference on Bioinformatics and Biomedicine (BIBM), pp. 2190-2195. IEEE, 2018. WOS:000458654000374, ISBN:978-1-5386-5488-0, ISSN: 2156-1125"
 39. Stanescu, A.M., Repta, D., Moiescu, M.A. and Sacala, I.S., 2018, October. Future Enterprise beyond the Concurrent Enterprising Systems. In 2018 22nd International Conference on System Theory, Control and Computing (ICSTCC) (pp. 250-254). IEEE WOS:000465109800041

• **Articole in reviste si volume proceedings de conferinte (indexate BDI)**

1. Mihnea Alexandru MOISESCU, Ioan Ștefan SACALĂ, Aurelian Mihai STĂNESCU, *Towards the Development of Internet Of Things Oriented Intelligent Systems* UPB Scientific Bulletin, Series C, Vol. 72, Iss. 4, 2010, ISSN 1454-234x, Indexat Google Scholar
2. Ioan Stefan Sacala, Mihnea Alexandru Moiescu, Mihai Sacala "Towards The Development Of Future Internet Enterprise Systems", Romanian Statistical Review Supplement, 2012, vol. 60, issue 2, pages 472-474, ISSN 1018-046X ,Indexat Econ Papers, Repec, Copernicus ICID: 1022606
3. Moiescu Mihnea Alexandru, Sacala Ioan Stefan, Dumitrache Ioan and Caramihai Simona, Predictive maintenance and robotic system design, Journal of Fundamental and Applied Sciences, 2018, Volume 10, Number 4S, pages 234—239, University of El Oued Publisher.
4. Ioan Stefan Sacala, Mihail Dumitru Sacala, Mihnea Alexandru Moiescu, „Wave refraction based analysis” Revista Romana de Statistica, Nr.3/2011, ISSN 1018-046X. Categoria de recunoaștere CNCSIS B+
5. Mihail Dumitru Sacala, Alexandra Monica Constantin, Ioan Stefan Sacala, Mihnea Moiescu, Economia Subterana – o problema majora?, Revista Romana de Statistica, Nr.1/2010, ISSN 1018-046X. Categoria de recunoaștere CNCSIS B+
6. Ioan Stefan Sacala, Mihnea Alexandru Moiescu, Mihai Sacala, Towards The Development Of Future Internet Enterprise Systems, Revista Romana de Statistica, Nr.2/2010, ISSN 1018-046X. Categoria de recunoaștere CNCSIS B+
7. Mihail Dumitru Sacala, Ioan Stefan Sacala, Mihnea Moiescu, Andrei Buiga, New concepts used in a Digital Bussiness EcoSystem, Revista Romana de Statistica, Nr.9/2009, ISSN 1018-046X. Categoria de recunoaștere CNCSIS B+
8. Aurelian Stănescu; Ioan Dumitrache; Ioana Mihu; Mihnea Moiescu; Monica Voinescu; Ioan Sacala; "Crossdomain Environment - Health INTEROPERABLE Metasystem" IFAC- MCPL 2007 Romania, Preprints, Eds: O.Bologa, I Dumitrache, F.G Filip IFAC Papers Online ISBN 978-973-739-481-1 pg 229-234, DOI: 10.3182/20070927-4-RO-3905.00039, Indexat Science Direct <https://www.sciencedirect.com/science/article/pii/S1474667015321704>
9. Aurelian Stănescu, Dimitris Karagiannis, Mihnea A. Moiescu, Ioan S. Sacală, Valentin Manoiu, TOWARDS A HOLISTIC APPROACH FOR INTELLIGENT MANUFACTURING SYSTEMS SYNTHESIS IMS'08: Proceedings of the 9th IFAC Workshop on Intelligent

Manufacturing Systems, Szczecin, Pologne, October 2008, pp: 193-198, IFAC Papers Online
ISBN: 9781617389924, Indexat Science Direct
<https://www.sciencedirect.com/science/article/pii/S1474667015355646> DOI:
10.3182/20081205-2-CL-4009.00035,

10. Aurelian Mihai Stanescu, Ioan Dumitrache, Octavian Stanasila, Nicolae Vasiliu, Mihnea Alexandru Moiescu, Ioan Stefan Sacala, ARCHE3S: first Living Lab enabler in Romania aiming at cross domain synergy-based approach to sustain SMEs, Klaus-Dieter Thoben, Kulwant S Pawar, Bernhard Katzy & Robert Bierwolf (eds), in Proceedings of the 15th International Conference on Concurrent Enterprising ICE2009 'Collaborative Innovation Emerging Technologies, Environments and Communities' Leiden, Netherlands, 22-24 June 2009 ISBN 978 085358 259 5, pp. 1-7 Indexat Indexat IEEE explore <https://ieeexplore.ieee.org/abstract/document/7461433>
11. Aurelian Mihai Stanescu, Mihnea Alexandru Moiescu, Ioan Stefan Sacala, Cornel Vintila, Adela Cornescu, Towards a New Science Foundation of Collaborative & Concurrent Enterprising, Klaus-Dieter Thoben, Kulwant S Pawar, Bernhard Katzy & Robert Bierwolf (eds), in Proceedings of the 15th International Conference on Concurrent Enterprising ICE2009 'Collaborative Innovation Emerging Technologies, Environments and Communities' Leiden, Netherlands, 22-24 June 2009 pp. 1-9 ISBN 978 085358 259 5 Indexat IEEE explore <https://ieeexplore.ieee.org/document/7461432>
12. Aurelian Mihai Stanescu, Ioan Dumitrache, Simona Iuliana Caramihai, Mihnea Alexandru Moiescu, Ioan Stefan Sacala, Towards Contextual System Conceptual Designing to sustain regional Stability in enlarged Europe, in proceedings of SWIS 2009: Supplementary Ways for Improving International Stability Conference, Bucharest Romania, 28-30 October 2009, pp. 103-108, www.IFAC-PapersOnLine.net, DOI: 10.3182/20091028-3-RO-4007.00022, Indexat: Elsevier / Science Direct, IFAC-PapersOnLine <https://www.sciencedirect.com/science/article/pii/S1474667015300227>
13. I. Dumitrache, A.M. Stanescu, S.I. Caramihai, M. Voinescu, M.A. Moiescu, I.S. Sacala, KNOWLEDGE MANAGEMENT BASED SUPPLY CHAIN IN LEARNING ORGANIZATION, Incom 2009, Proceedings of the 13th IFAC Symposium on Information Control Problems in Manufacturing (INCOM09), pp. 121-126, Moscow, Russia, June 3-5, N. Bakhtadze, A. Dolgui (Eds.), Elsevier Science, 2009, IFAC-PapersOnline.net (ISSN 1474-6670), DOI: 10.3182/20090603-3-RU-2001.00018, Indexat: Scopus, Elsevier / Science Direct <https://www.sciencedirect.com/science/article/pii/S1474667016337788>
14. Aurelian Mihai Stanescu, Adela Cornescu, Cornel Vintila, Mihnea Alexandru Moiescu, Ioan Stefan Sacala, Concurrent Enterprising as a Knowledge reservoir to bridge the gap between Engineering and Science, Klaus-Dieter Thoben, Kulwant S Pawar, Bernhard Katzy & Robert Bierwolf (eds), in Proceedings of the 16th International Conference on Concurrent Enterprising ICE2010 'Collaborative Environments for Sustainable Innovation' Lugano, Switzerland, 21-23 June 2009 pp. 1-8 ISBN 978 085358 259 5, IEEE, Indexat Scopus <https://ieeexplore.ieee.org/document/7476993>
15. Mihnea Alexandru Moiescu, Ioan Dumitrache, Simona Iuliana Caramihai, Aurelian Mihai Stanescu, Ioan Stefan Sacala, The Future of Knowledge in Manufacturing Systems in the Future Era of Internet of Things, IFAC- MCPL 2010, 8-10th September, Coimbra, Portugal, pp. 215-220, IFAC Papers Online, ISBN 201009083, DOI: 10.3182/20100908-3-PT-3007.00041, Indexat Scopus, Science Direct <https://www.sciencedirect.com/science/article/pii/S147466701630903X>
16. Mihnea Alexandru MOISESCU, Ioan Ștefan SACALĂ, Aurelian Mihai STĂNESCU, TOWARDS THE DEVELOPMENT OF INTERNET OF THINGS ORIENTED INTELLIGENT SYSTEMS" UPB Scientific Bulletin, Series C, Vol. 72, Iss. 4, pp. 115-124 2010, ISSN 1454-234x, Indexat Scopus
17. Stanescu Aurelian Mihai, Bogdan Barbulescu, Monica Dragoicea, Nicula Marin, Moiescu Mihnea Alexandru, Sacala Ioan Stefan, "Towards the development of Internet of Things compliant GPS navigation systems" Annals of DAAAM 2010, Proceedings of the 21st International DAAAM Symposium, Volume 21, No. 1, ISSN 1726-9679, ISBN 978-3-901509-73-5, Editor B. Katalinix, pp. 883-885. Published by DAAAM International Vienna, Austria, Indexat Scopus, EBSCO
18. Mihnea Alexandru Moiescu, Ioan Stefan Sacala, Aurelian Mihai Stanescu, Cristina Serbanescu "Towards Integration of Knowledge Extraction from Process Interoperability in

- Future Internet Enterprise Systems”, 14th IFAC Symposium on Information Control Problems in Manufacturing, 23-25 Mai, 2012, Bucuresti, Romania, pp. 1458-1463, ISSN: 1474-6670, ISBN: 978-3-902661-98-2, DOI: 10.3182/20120523-3-RO-2023.00395, Indexat: Scopus, IFAC PApersOnline Indexat Science Direct <https://www.sciencedirect.com/science/article/pii/S1474667016333560>
19. Stegaru Georgiana, Stănescu Aurelian Mihai, Sacală Ioan and Moiescu Mihnea „Dynamic Interoperability Model for Web Service Choreographies” 6th International Conference on Interoperability for Enterprise Systems and Applications, Proceedings of the I-ESA Conferences, 2012, Volume 5, Part 2, 81-91, Springer Verlaag Journal, ISBN:978-1-4471-2819-9_8, DOI: 10.1007/978-1-4471-2819-9_8. Indexat: Google Scholar. Springer Link https://link.springer.com/chapter/10.1007/978-1-4471-2819-9_8
 20. Aurelian M.Stănescu, Mihnea A.Moiescu, Ioan S.Sacală, George Burlacu, Raluca A.Nedelcu, Luiza E.Cojocaru „Concurrent innovation-based eEnterprise”, International Conference on Engineering, Technology and Innovation, 18-20 Iunie 2012, Munchen, pp. 1-9 ISBN: 978-1-4673-2273-7, indexata in IEEE Xplore, Identifier: 10.1109/ICE.2012.6297697, Scopus
 21. George Burlacu, Aurelian Mihai Stănescu, Mihnea Alexandru Moiescu, Ioan Ștefan Sacală and Luiza-Elena Cojocaru, “Development of a Modeling Framework for Future Internet Enterprise Systems”, 16th International Conference on System Theory, Control and Computing, ICSTCC 2012, 12-14 October 2012, Sinaia, Romania, Paper ID: 178, pp. 1-6 ISBN 978-606-8348-48-3, Indexed in IEEE Xplore, Scopus <https://ieeexplore.ieee.org/document/6379254>
 22. Georgiana Stegaru, Mihnea Moiescu, Ioan Sacala, Natalia Costetchi „Quality Management in Sensing Enterprise: Requirements for quality driven manufacturing”, International IFAC Conference on Manufacturing Modelling, Management and Control, MIM 2013, 19-21 June, 2013, Saint Petersburg, Rusia, pp. 1316-1321, IFAC Papers Online, DOI 10.3182/20130619-3-RU-3018.00425, : Manufacturing Modelling, Management, and Control, Volume# 7 | Part# 1, Conference Editor: Bakhtadze, Natalia; Chernyshov, Kirill; Dolgui, Alexandre; Lototsky, Vladimir, ISBN: 978-3-902823-35-9, ISSN: 1474-6670 Indexat: Scopus, IFAC Papers Online <https://www.sciencedirect.com/science/article/pii/S1474667016344743>
 23. Repta, Dragos, Ioan Stefan Sacala, Mihnea Alexandru Moiescu, and Aurelian Mihai Stanescu. "Towards the development of a Cyber-Intelligent Enterprise System Architecture." In World Congress, vol. 19, no. 1, pp. 827-832. 2014., IFAC World Congress, 2014, Conference Editor: Boje, Edward; Xia, Xiaohua, ISBN: 978-3-902823-62-5, ISSN: 1474-6670 Cape Town, South Africa, Indexat: IFAC Papers Online, Science Direct <https://www.sciencedirect.com/science/article/pii/S1474667016417179>
 24. Vlad Valentin Fireteanu, Andreea Tudor-Serban, Ioan Stefan Sacala, Mihnea Alexandru Moiescu, Avalanche Prediction Based on Snow Level Monitoring Using Wireless Sensor Networks, Periodical Applied Mechanics and Materials (Volume 656) (2014), Pages 369-377 DOI 10.4028/www.scientific.net/AMM.656.369, ISSN: 16609336 ISBN: 978-303835274-7;978-303835274-7 Indexat Scopus <https://www-scopus-com.am.e-nformation.ro/record/display.uri?eid=2-s2.0-84921630445&origin=resultslist&sort=plf-f&src=s&st1=Tudor-Serban&st2=&sid=9226f76a2d2534fa272e278f16acf255&sot=b&sdt=b&sl=25&s=AUTHOR-NAME%28Tudor-Serban%29&relpos=1&citeCnt=1&searchTerm=>
 25. Dragos Repta, Mihnea Alexandru Moiescu, Ioan Stefan Sacala, Aurelian Mihai Stanescu, Nicolae Constantin, Generic Architecture for Process Mining in the Context of Cyber Physical Systems, Periodical Applied Mechanics and Materials (Volume 656), (2014) Pages 569-577 DOI 10.4028/www.scientific.net/AMM.656.569, ISSN: 1662-7482 Indexat Scopus ISSN: 16609336, ISBN: 978-303835274-7;978-303835274-7
 26. Banta, Viorel Costin, Dorian Cojocaru, Mihnea Alexandru Moiescu, and Ioan Stefan Sacala. "Release Management Tool-A Software Application for Release and Deployment Management." In Applied Mechanics and Materials, vol. 656, pp. 524-533. Trans Tech Publications, 2014. ISSN: 16609336 ISBN: 978-303835274-7;978-303835274-7 DOI: 10.4028/www.scientific.net/AMM.656.524 Indexat Scopus
 27. Repta, Dragos, Mihnea Alexandru Moiescu, Ioan Stefan Sacala, Aurelian Mihai Stanescu, and Monika Benea. "Towards the Development of a Cyber-Physical Systems Oriented Enterprise Architecture." In Applied Mechanics and Materials, vol. 555, pp. 816-821. Trans

<https://www.sciencedirect.com/science/article/pii/S1474667016417179>

28. Repta, D., I. S. Sacala, M. A. Moiescu, I. Dumitrache, and A. M. Stanescu. "Automated Process Model Generation for Internet of Things Oriented Enterprise Systems." In *Enterprise Interoperability VII*, pp. 139-149. Springer, Cham, 2016. ISSN: 21992533 DOI: 10.1007/978-3-319-30957-6_11 Indexat Springer Link https://link.springer.com/chapter/10.1007/978-3-319-30957-6_11
29. Sacala, Ioan Stefan, Ioan Dumitrache, Mihnea Alexandru Moiescu, Aurelian Mihai Stanescu, and Simona Iuliana Caramihai. "Agricultural enterprise architecture based on cyber physical systems paradigm." In *Engineering, Technology and Innovation (ICE/ITMC), 2017 International Conference on*, pp. 1306-1311. IEEE, 2017. Indexat IEEE
30. Moiescu, Mihnea Alexandru, Ioan Stefan Sacala, Ioan Dumitrache, and Dragos Repta. "Cyber physical systems based model-driven development for precision agriculture." In *Proceedings of the Symposium on Model-driven Approaches for Simulation Engineering*, p. 6. Society for Computer Simulation International, 2017. Indexat ACM, Scopus <https://dl.acm.org/citation.cfm?id=3108250>
31. Cristian Suci, Ioan Stefan Sacala, Mihnea Alexandru Moiescu, *Towards the Development of e-Services for Tourism in Romanian Business Ecosystem*, Conferinta Internationala: Strategii Globale in Agricultura, Agroturism, Alimentatie si Protectia Mediului, Book of Abstracts, 2009, ISBN 978-973-1887-74-6 , pg 65-66
32. Cristian Suci, Mihnea Alexandru Moiescu, Ioan Stefan Sacala, *Towards the Integration of Intelligent Packaging in Romanian Food Industry*, Conferinta Internationala: Strategii Globale in Agricultura, Agroturism, Alimentatie si Protectia Mediului, 2009, Book of Abstracts, ISBN 978-973-1887-74-6 , pg 80-81
33. A.M.Stanescu, I.Dumitrache, S.I.Caramihai, M.A.Moiescu, I.S.Sacala, *The Grand Unification: Emerging Sciences to Support Interoperability Based Complex Adaptive Systems in Intelligent Manufacturing*, Congrès International de Génie Industriel 2009 Tarbes, France, juin 2009
34. Aurelian Mihai Stanescu, Alexandru Vedes, Mihnea Alexandru Moiescu , Ioan Stefan Sacala and Irina Gabriela Lolu, *Towards an Artificial Intelligence Robotic System within the Internet of Things*, Proceedings of the RAAD 2009 18th International Workshop on Robotics in Alpe-Adria-Danube Region May 25-27, 2009, Brasov, Romania, ISBN 978-606-521-315-9, ISSN 2066-4745, 2009
35. Aurelian Mihai Stanescu, Mihnea Alexandru Moiescu, Ioan Stefan Sacala, Natalia Costeschi, *Human Centered Collaborative Robotic System Conceptual Design*. 4nd International Conference "Optimization of the Robots and Manipulators" OPTIROB 2009- CONSTANTA, 28-31 May, ISSN 2066 – 2854, Bren Publishing House, Bucharest, pp 275-280
36. Aurelian Mihai Stanescu, Ioan Dumitrache, Mihnea Alexandru Moiescu, Ioan Stefan Sacala, *From Extended Enterprise Towards the Collaborative Network Organization in Aeronautics Industry* - Conferinta Internationala de stiinte Aerospatiale Bucuresti, ROMANIA AEROSPATIAL 2008, 1 - 2 Octombrie 20, Volum: Aerospatial 2008 pg 742-755, ISBN 978-973-0-05704, Indexat Google Scholar
37. Aurelian Mihai Stanescu, Ioan Dumitrache, Mihnea Alexandru Moiescu, Ioan Stefan Sacala, Irina Gabriela Lolu, *From Collaborative Network Organization Towards Future Internet Enterprise Systems in Aeronautics Industry*, Proceedings of the International Conference of Aerospace Sciences "AEROSPATIAL 2010", Bucharest, 20-21 October 2010, cod ISSN 2067-8614.
38. MOIESCU, Mihnea Alexandru, Ioan Stefan SACALA, and Ioan DUMITRACHE. "A CYBER PHYSICAL SYSTEMS APPROACH FOR ROBOTIC SYSTEMS DESIGN." *Acta Electrotehnica* 57 (2016).

2. Lista granturilor si contractelor de cercetare (2000-2018)

• Granturi si contracte internationale

1. FP7-ICT-2009-4 - 248583 UpgradiNg ICT excellence by strengthening cooperation between research Teams in an enlarged Europe Acronim UNITE (director proiect Ricardo Goncalves,

Autoritatea contractanta: Comisia Europeana, obitnut prin competitie), membru in echipa de implementare

2. FP7-ICT-2009.9.5 – 2010-2011 – Large-scale Integrating Project (IP)- 216256 COIN— COllaboration and INteroperability for networked enterprises in an Enlarged European Union Acronim COIN (director proiect Claudia Guglielmina, Autoritatea contractanta: Comisia Europeana, obitnut prin competitie), membru in echipa de implementare
3. POSDRU/ 53084 2010 – 2013 ComHighTech - Cresterea competitivității întreprinderilor prin perfectionarea si specializarea resurselor umane în domeniul noilor tehnologii, într-o societate bazată pe cunoastere si pentru o dezvoltare durabilă, director de proiect Prof.dr.ing Ioan Dumitrache - Partener strain Interop - Vlab, membru in echipa de implementare

• Granturi si contracte nationale

1. PN-II-PT-PCCA-2013: Platforma robot versatila, inteligenta, portabila cu sisteme de control in retele adaptive pentru roboti de salvare, Contract nr. 9 /2014 / mr PT699/8.9.2014 , Tip proiect: - PN-II-PT-PCCA-2013-4-2009, Director proiect UPB
2. CEEX INFOSOC 2006-2008 “REtea @-colaborativă pentru cercetarea efectelor poluanților din MEDIU asupra sănătății, în cadrul unor metasisteme complexe” Acronim: REMEDIU 138/2006 (director proiect prof. Dr. Ing. Aurelian Mihai Stanescu, UPB, Autoritatea contractanta: CNMP, obitnut prin competitie), membru in echipa de implementare
3. PNCDI2 – Parteneriate 81011/2007 “Metode Si Software Pentru Calculul Si Definirea Configuratiei Aeronavelor Subsonice In Faza De Pre-Concept, Adaptate Lucrului Colaborativ In Intreprinderi Aeronautice Largite” Acronim: CASCADNET membru, director proiect Mihai Neamtu, INCAS, Responsabil UPB Prof.dr.ing Ioan Dumitrache, Autoritatea contractanta: CNMP, obitnut prin competitie) , membru proiect
4. PNCDI2 – Parteneriate 81022/2007 Tehnologii avansate pentru proiectarea si testarea echipamentelor de navigatie in medii complexe Acronim: TANACO (membru, director proiect Tiberius Tomoioaga, Respensabil UPB, Prof.dr.ing Aurelian Stanescu, Autoritatea contractanta: CNMP, obitnut prin competitie) , membru proiect
5. POSDRU Excelență în cercetare prin burse doctorale și postdoctorale (ExcelDOC), Cod Contract: 132397, Proiect cofinanțat din Fondul Social European prin Programul Operațional Sectorial pentru Dezvoltarea Resurselor Umane 2007 – 2013, membru proiect
6. ANCS proiect suport - COIN—COllaboration and INteroperability for networked enterprises in an Enlarged European Union Acronim COIN (membru, director proiect Aurelian Mihai Stanescu, Autoritatea contractanta: ANCS, obitnut prin competitie), Director de proiect Prof. Aurelian Mihai Stanescu UPB, , membru proiect
7. POSCCE: Cresterea performantelor tehnice ale dispozitivului Electronic Doctor si Infiintarea facilitatilor de productie pentru acesta , S.C. DENTICARE IMPLANTOLOGY CENTER SRL Bucuresti POSCCE Operațiunea 2.3.3, contract nr 94 7/31/2013, Director de proiect Dr. Bogdan Vladila, , membru proiect
8. PNCDI2 – 2007 – 2010 Contract de cercetare CNMP 7.1.108/18.09.2007, PNCDI II, Programul 4 : Parteneriate in domenii prioritare,categorie PC : TIME-OUT: TEHNICI INTELIGENTE PENTRU MODELAREA, ANALIZA SI OPTIMIZAREA TRAFICULUI URBAN, beneficiar UPB, director proiect Simona Caramihai, UPB membru in echipa , Cercetator, membru in echipa de implementare

3. Lista brevetelor obtinute in 2000-2018:

• Brevete nationale

1. Vladareanu L, Munteanu R I, Sireteanu T, Dumitrache I, Iliescu M, Cononovici B S, Vladareanu V, Munteanu R A, Melinte O, Gal Ionel-Alexandru, Barbu V, Munteanu M S, Mitroi D, Moisescu M, Chenaru O, Ionel M, Sacala I S, Florea G., “Method and device for hybrid speed-position control with applications in intelligent control platforms”. Patent Number: RO131780-A0. Derwent Primary Accession Number: 2017-272243.