

PERSONAL INFORMATION

Ioan Ștefan Sacală



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 <https://precis.upb.ro/management/>

Sex Male | Date of birth 20/01/1983 | Nationality Romanian

POSITION

President of PRECIS Research Institute

WORK EXPERIENCE

- | | |
|----------------|---|
| 2024 - present | Professor, President of PRECIS Research Institute with the rank of vice-Rector, Head of Equity, Diversity and Inclusion Center
National University for Science and Technology Politehnica Bucharest
<ul style="list-style-type: none"> ▪ Teaching, Research, Management |
| 2020 - 2024 | Professor, vice-Dean for International Cooperation and Business Environment
National University for Science and Technology Politehnica Bucharest
<ul style="list-style-type: none"> ▪ Teaching, Research, Management |
| 2015 - 2020 | Associate professor
University Politehnica of Bucharest, Faculty of Automatic Control and Computers
<ul style="list-style-type: none"> ▪ Teaching, Research |
| 2011 - 2015 | Lecturer
University Politehnica of Bucharest, Faculty of Automatic Control and Computers
<ul style="list-style-type: none"> ▪ Teaching, Research |
| 2009 - 2011 | Scientific Researcher
University Politehnica of Bucharest, Faculty of Automatic Control and Computers |
| 2009 - 2011 | Teaching Assistant
University ARTIFEX of Bucharest
<ul style="list-style-type: none"> ▪ Teaching, Research |
| 2007 - 2011 | General Manager
SC SAJI ASSOCIATES SRL
<ul style="list-style-type: none"> ▪ Development of web applications that focus on tourism and e-commerce in HTML, PHP, MySQL, CSS, Photoshop ▪ Creating a portal for Digital Business Ecosystems, Internet of Future ▪ Ongoing Projects: RFID, WEB 3.0 Business or sector ICT, Automation |

EDUCATION AND TRAINING

- 2014 - 2015 **Postdoctoral Certificate**
University Politehnica of Bucharest, Faculty of Automatic Control and Computers
- Postdoctoral studies in the System Engineering domain
- 2007 - 2011 **PhD Diploma**
University Politehnica of Bucharest, Faculty of Automatic Control and Computers
- Doctoral studies in the System Engineering domain
- 2007 - 2009 **Master of Science**
University Politehnica of Bucharest, Faculty of Automatic Control and Computers
- Master studies in the Intelligent Integrated Computer Systems Engineering domain
- 2003 - 2007 **Bachelor's Degree**
University of Bucharest, Faculty of Geography
- Human and political geography
- 2002 - 2007 **Engineering Diploma**
University Politehnica of Bucharest, Faculty of Automatic Control and Computers
- Bachelor of Science in the System Engineering domain
- 1998 - 2002 **Baccalaureate degree**
Alexandru Ioan Cuza High School, Bucharest
- Mathematical informatics profile

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
French	B2	B2	B2	B2	B2
Spanish	B2	B2	B2	B2	B2

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

Communication skills ▪ Efficient collaboration, strong communication, active listening, supportive feedback

Organisational/ managerial skills ▪ Strategic thinking, strong leadership, decision-making, negotiation skills, conflict management, flexibility, problem-solving

- **Digital competence**
- Operating Systems: iOS, Windows
- Programming languages: LabView, Matlab, HTML, PHP, C, C++, JAVA

Other competences

- Expert within the Ministry of Justice in Computers, Informatics, Automation and Industrial Informatics, Networks, and Communication Software.
- Editor in Control Engineering and Applied Informatics journal (ISI Impact Factor = 0.695).
- Keynote speaker at multiple conferences, symposiums, and doctoral symposiums.
- Chair for several special sessions within international scientific conferences.
- Member of the jury of different PhD defences at national and international levels.
- Scientific Reviewer – multiple international database-indexed conferences, symposiums, and journal articles with impact factor.
- Invited professor at New University of Lisbon, Portugal.
- Academic diploma in Oracle Database Design & Programming teacher
- IBM Academic Certificate in WebSphere Business Process Modelling
- Oracle eBusiness Suite academic representative
- YOKOGAWA academic representative in security systems: PROSAFE RS application
- Oracle partner for Human Resources Training
- American Academy of Project Management - Certified International Project Manager (CIPM)
- Courses, seminars, and laboratory work conducted in the following disciplines:
 - Actuators
 - Communication Systems and Interoperability
 - Cyber-Physical Systems
 - Discrete Event Dynamical Systems
 - Project Management (Course introduced by me within the Faculty of Automation and Computers Science Faculty curricula)
 - Advanced Communication Systems
 - Information processing
 - Advanced Communication Systems
 - Requirements Management
 - Business Process Modelling
 - Research projects management
 - Integrated Systems for Enterprise Resources Management
 - E-commerce

Driving licence

A, B

ADDITIONAL INFORMATION

- **Honours and awards**
- National Council of Rectors Innovation Award “Hybrid Method and Control System “Velocity - Position” with applications in intelligent control platforms”.
- Salon International des Inventions Geneve 2017 – Gold medal for the invention "Method and device for hybrid position speed control applied to intelligent platform control".
- Turk Patent Award for invention: Method and Device for Hybrid Position Speed Control Applied to Intelligent Platform Control, L. Vladareanu, R. I. Munteanu, I. Dumitrache, M. Moisescu, I. Sacala et al., International Exhibition of Inventions of Geneva, 2017.
- APIICIS Special Award for Contribution to Innovation for Method and Device for Hybrid Position Speed Control Applied to Intelligent Platform Control, L. Vladareanu, R. I. Munteanu, I. Dumitrache, M. Moisescu, I. Sacala et al, International Exhibition.
- Hong Kong Polytechnic University, Institute for Entrepreneurship, Excellent Invention Award for Contribution to Innovation for Method and Device for Hybrid Position Speed Control Applied to Intelligent Platform Control, L. Vladareanu, R. I. Munteanu, I. Dumitrache, M. Moisescu, I. Sacala, et al., International Exhibition of Inventions of Geneva, 2017.

Membership

- Member of the following professional associations: Romanian Society for Automation and Technical Informatics, Romanian Society for Robotics, Romanian Society for Statistics, and Romanian Coalition for Education in Engineering.
- Member of the editorial boards or scientific committees of ISI journals and BDI-indexed journals, chair, co-chair, or organizing committees of international scientific events indexed by ISI/ BDI. The list is presented in the Annex (Annex 2 and Annex 3).

Publications

Books

Calin Munteanu, Simona Iuliana Caramihai, Mihnea Moisescu, **Ioan Stefan Sacala** "Sisteme Dinamice cu Evenimente Discrete", Printech, ISBN 978-606-521-199-5.

Ioan-Stefan Sacala et al, „The COIN Book – Enterprise Collaboration and Interoperability”, Patrick Sitek, Sergio Guismeroli, Marco Conte, Kim Jansson and Iris Karvonen Editors, Verlag Mainz Eds, ISBN: 3-86130-713-8.

Mihnea Alexandru Moisescu, **Ioan Stefan Sacala**, "Managementul ciclului de viata al proiectelor", ISBN 978-606-23-0324-2, Printech 2014, cod CNC SIS 54

Ioan Stefan Sacala, Mihnea Alexandru Moisescu, "Management de proiect pentru dezvoltarea sistemelor informatinale" – ISBN 978-606-23-0325-9, Printech 2014, cod CNC SIS 54

Mihnea Alexandru Moisescu, **Ioan Stefan Sacala**, "Tendinte actuale in managementul proiectelor informatice", ISBN 978-606-23-0886-5, Printech 2018, 210 pages, cod CNC SIS 54

Ioan Stefan Sacala, Mihnea Alexandru Moisescu "Sisteme de intreprindere bazate pe internetul viitorului", ISBN 978-606-23-0887-2, Printech 2018, 100 pages, cod CNC SIS 54

Book chapters

Aurelian Mihai Stanescu, Lucian Ionescu, Vasile Georgescu, Mihnea Moisescu, **Ioan Sacala** "Towards Digital Business EcoSystem Analysis" Handbook on Business Information Systems, 2009, ISBN10: 9812836055.

Aurelian Mihai Stanescu, Mihnea Alexandru Moisescu, **Ioan Stefan Sacala**, "An EI/EC Pilot in a Construction Supply Chain" in "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

Papers published in international journals and conference proceedings

2007

Aurelian Stănescu; Ioan Dumitrache; Ioana Mihu; Mihnea Moisescu; 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>

2008

Aurelian M. Stanescu, Lucian M. Ionescu, Adina Florea, C.Serbanescu, Mihnea A. Moisescu, **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, , ROMANIA, ISSN: 1841-9836, WOS:000257497600081

A.M.Stanescu, M.A.Moisescu, **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

Aurelian Mihai Stanescu, Mihnea Alexandru Moisescu, **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

Aurelian Stănescu, Dimitris Karagiannis, Mihnea A. Moisescu, **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, DOI: 10.3182/20081205-2-CL-4009.00035, Indexat Science Direct

<https://www.sciencedirect.com/science/article/pii/S1474667015355646>

Stanescu A.M., Ionescu L.M., Florea A., Șerbanescu C., Moisescu M.A., **Sacala I.S.**, Towards great challenge for enterprise science within knowledge-based society paradigm, International Journal of Computers, Communications and Control, Volume 3, pp. 491-496

2009

Mihail Dumitru Sacala, Aurelian Mihai Stanescu, Monica Dragoicea, Mihnea Alexandru Moisescu, **Ioan Ștefan 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

Aurelian Mihai Stanescu, Ioan Dumitrache , Octavian Stanasila, Nicolae Vasiliu, Mihnea Alexandru Moisescu, **Ioan Ștefan 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, 22-24Iunie 2009 ISBN 978 085358 259 5, pp. 1-7, Indexed IEEE explore <https://ieeexplore.ieee.org/abstract/document/7461433>

Aurelian Mihai Stanescu, Mihnea Alexandru Moisescu, **Ioan Ștefan 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 Iunie 2009 pp. 1-9 ISBN 978 085358 259 5 Indexed IEEE explore <https://ieeexplore.ieee.org/document/7461432>

Aurelian Mihai Stanescu, Ioan Dumitrache, Simona Iuliana Caramihai, Mihnea Alexandru Moisescu, **Ioan Ștefan Sacala**, Towards Contextual System Conceptual Designing to sustain regional Stability in enlarged Europe, in proceedings of SWIIS 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, Indexed: Elsevier / Science Direct, IFAC-PapersOnLine <https://www.sciencedirect.com/science/article/pii/S1474667015300227>

I.Dumitrache, A.M.Stanescu, S.I.Caramihai, M.Voinescu, M.A.Moisescu, **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, Indexed: Scopus,Elsevier / Science Direct <https://www.sciencedirect.com/science/article/pii/S1474667016337788>

Aurelian Mihai Stanescu , Mihnea Alexandru Moisescu, **Ioan Ștefan Sacala**, Irina Lolu, COMPLEX ADAPTIVE SYSTEMS FOCUSED INTELLIGENT MANUFACTURING, The 6th Symposium on Process Control, September 2009 Ploiesti, Technical Serie Vol. 61, Issue 3, pages 13, ISSN: 1224-8495, pg. 3-10, Indexed: Ebsco Host, <http://connection.ebscohost.com/c/articles/50228143/complex-adaptive-systems-focused-intelligent-manufacturing>

2010

Stanescu, Aurelian Mihai; Moisescu, Mihnea Alexandra; **Sacala Ioan Ștefan**,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"

Aurelian Mihai Stanescu, Adela Cornescu, Cornel Vintila, Mihnea Alexandru Moisescu, **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 Iunie 2009 pp. 1-8 ISBN 978 085358 259 5, IEEE , Indexed Scopus <https://ieeexplore.ieee.org/document/7476993>

Mihnea Alexandru Moisescu, 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, Indexed Scopus, Science Direct <https://www.sciencedirect.com/science/article/pii/S147466701630903X>

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, Indexed Scopus

Stanescu Aurelian Mihai, Bogdan Barbulescu, Monica Dragoicea, Nicula Marin, Moisescu 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, Indexed Scopus, EBSCO <https://web.b.ebscohost.com/abstract?direct=true&profile=ehost&scope=site&authtype=crawler&jrnl=17269679&AN=55674899&h=fZpp%2fjiYuug8GaVtyxdWCUulGvsZTA1dzdRE5pnT39U5Me1hkrq2mEuLCenJaNPG8d9ZtXwpJ%2bu5UHLiCCXQ%3d%3d&crl=c&resultNs=AdminWebAuth&resultLoca=ErrCrlNotAuth&crlhashurl=login.aspx%3fdirect%3dtrue%26profile%3dehost%26scope%3dsite%26authtype%3dcrawler%26jrnl%3d17269679%26AN%3d55674899>

2011

Vergil Voineagu, Mihail Dumitru Sacala, **Ioan Stefan Sacala** „Technical analysis method based on wave refraction”, Journal of ECONOMIC COMPUTATION AND ECONOMIC CYBERNETICS STUDIES AND RESEARCH, No. 3/2011, pg. 5-24, category ISI, ISSN 1842 – 3264, WOS:000294752000001

Calin Munteanu, Simona Caramihai, Mihnea Alexandru Moisescu 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

2012

Stanescu, AM, Moisescu, MA, **Sacala Ioan Stefan**, 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

I. Lolu, A. Stanescu, M. Moisescu, **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

Stanescu, Aurelian; Moisescu, 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

Stegaru, G, Danila, C, **Sacala, IS**, Moisesescu, 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

Mihnea Alexandru Moisesescu, **Ioan Ștefan Sacală**, 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, Indexed: Scopus, IFAC PAPersOnline Indexed Science Direct <https://www.sciencedirect.com/science/article/pii/S1474667016333560>

Stegaru Georgiana, Stănescu Aurelian Mihai, **Sacală Ioan** and Moisesescu 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, pp. 81-91, Springer Verlaag Journal, ISBN:978-1-4471-2819-9_8, DOI: 10.1007/978-1-4471-2819-9_8. Indexed: Springer Link https://link.springer.com/chapter/10.1007/978-1-4471-2819-9_8

Aurelian M.Stănescu, Mihnea A.Moisesescu, **Ioan S.Sacală**, George Burlacu, Raluca A.Nedelcu, Luiza E.Cojocar „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, indexeda in IEEE Xplore, Identifier: 10.1109/ICE.2012.6297697, Scopus

George Burlacu, Aurelian Mihai Stănescu, Mihnea Alexandru Moisesescu, **Ioan Ștefan Sacală** and Luiza-Elena Cojocar, "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>

Stanescu A.M., Moisesescu M.A., **Sacala I.S.**, Burlacu G., Integrating e-IMS platform via interoperability within collaborative enterprises, Studies in Computational Intelligence, Volume 402, pp. 129-142, DOI 10.1007/978-3-642-27449-7_10

2013

Alix Vargas, Andrés Boza, Llanos Cuenca, **Ioan Sacala** "Inter-Enterprise Architecture and Internet of the Future", 3rd Doctoral Conference on Computing, Electrical and Industrial Systems, 15-17 April 2013, IFIP Advances in Information and Communication Technology Volume 394, 2013, pp. 25-32, ISBN 978-3-642-37290-2, WOS:000323186100003, https://doi.org/10.1007/978-3-642-37291-9_3

Ioan Ștefan Sacala, Dragos Repta, Mihnea Moisesescu, 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

Repta Dragos, **Ioan Ștefan Sacală**, Mihnea Alexandru Moisesescu „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

Costetchi Natalia, Stanescu Aurelian Mihai ,Moisesescu Mihnea Alexandru, **Sacala Ioan Ștefan** „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) Trans Tech Publications, Switzerland, ISSN: 1662-7482 doi:10.4028/www.scientific.net/AMM.436.497, WOS:000332261000064

Georgiana Stegaru, Mihnea Moisesescu, **Ioan Ștefan 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

Natalia, C., Alexandru, Mihnea. Moisescu., Mihai, S. A., **Ioan Stefan Sacala**, & 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

Natalia, C., Alexandru, Mihnea. Moisescu M., Mihai, S. A., **Ioan Stefan Sacala**, & 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

Georgiana Stegaru, Mihnea Moisescu, **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 Indexed: Scopus, IFAC Papers Online <https://www.sciencedirect.com/science/article/pii/S1474667016344743>

Mihnea Alexandru Moisescu, **Ioan Stefan Sacala** „Framework Integration to Support the Development of Future Internet Enterprise Systems”, Information Engineering Journal Volume 2 Issue 2, June 2013, pp. 22-29, ISSN: 2326-5868, Indexed: World Cat, www.seipub.org/ie/Download.aspx?ID=2927

2014

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, IF jurnal anul 2014: 0.913 WOS:000346943300006

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

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

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

"Vlad Valentin Fireteanu, Andreea Tudor-Serban, **Ioan Stefan Sacala**, Mihnea Alexandru Moisescu, Avalanche Prediction Based on Snow Level Monitoring Using Wireless Sensor Networks, Periodical Applied Mechanics and Materials (Volume 656) (2014), Pages 369-377, Indexed Scopus

DOI 10.4028/www.scientific.net/AMM.656.369, ISSN: 16609336, ISBN: 978-303835274-7; 978-303835274-7 Indexed 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=>

"Dragos Repta, Mihnea Alexandru Moisescu, **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 Indexed Scopus ISSN: 16609336, ISBN: 978-303835274-7;978-303835274-7 <https://www.scopus-com.am.e-nformation.ro/record/display.uri?eid=2-s2.0-84921671472&origin=resultslist&sort=plf-f&src=s&st1=moisescu+m&nlo=&nlr=&nls=&sid=9226f76a2d2534fa272e278f16acf255&sot=b&sdt=b&sl=23&s=AUTHOR-NAME%28moisescu+m%29&relpos=44&citeCnt=1&searchTerm=>"

Banta, Viorel Costin, Dorian Cojocaru, Mihnea Alexandru Moisescu, and **Ioan Ștefan Sacală**. "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 Indexed Scopus

Repta, Dragos, Mihnea Alexandru Moisescu, **Ioan Ștefan Sacală**, 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 Tech Publications, 2014. Indexed Science Direct <https://www.sciencedirect.com/science/article/pii/S1474667016417179>

Repta, Dragos, **Ioan Ștefan Sacală**, Mihnea Alexandru Moisescu, 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, ISSN: 2405-8963, DOI: 10.3182/20140824-6-ZA-1003.01681

2015

Costetchi, N., Stanescu, A. M., Alexandru, M., MOISESCU, **Ioan Ștefan SACALĂ** & 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), pp. 55-68. WOS:000421811300005

Stegaru, G., Danila, C., **Sacală, I. S.**, Moisescu, M., & Stanescu, A. M. (2015). E-Services quality assessment framework for collaborative networks. Enterprise Information Systems, 9(5-6), pp. 583-606. DOI: 10.1080/17517575.2013.879213, IF jurnal anul 2015: 2.2690 WOS:000349799800006, ISSN: 1751-7575, eISSN: 1751-7583 - 2015 Rank Q1 23/144 journals in Categories COMPUTER SCIENCE, INFORMATION SYSTEMS - SCIE,

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, IF jurnal anul 2015: 0.723, WOS:000366543700005

Sacală, 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

Dragos, R., **Sacală, 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

Repta, D., Moisescu, M. A., **Sacală, 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

"Repta Dragos, **Ioan Ștefan Sacală** , Mihnea Alexandru Moisescu, Calin Munteanu and Aurelian Mihai Stanescu, Modelling and Analysis of Process Execution Based on Data Aquired from Sensors Networks, MODELSWARD 2015 - 3rd International Conference on Model-Driven Engineering and

Software Development; ISI; ISBN: 978-989-758-083-3, Februarie 2015; pp. 618-625; Indexed IEEE, http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=7323173&url=http%3A%2F%2Fieeexplore.ieee.org%2Fxppls%2Fabs_all.jsp%3Farnumber%3D7323173 "

2016

Alix Vargas, Llanos Cuenca, Andres Boza, **Ioan Sacala**, Mihnea Moisesescu, Towards the development of the framework for inter sensing enterprise architecture, Journal of Intelligent Manufacturing, 2016, pp. 55-72, Print ISSN 0956-5515, Online ISSN 1572-8145, DOI 10.1007/s10845-014-0901-z, Springer Eds, IF jurnal anul 2016: 2.9200, WOS:000368727300004 - 2016 Rank Q1 9/44 journals in Categories Engineering, Manufacturing

Ioan Sacala, Mihnea Moisesescu, Towards the Development of Interoperable Sensing Systems for the Future Enterprise, Journal of Intelligent Manufacturing, 2016, pp. 33-54, Print ISSN 0956-5515, Online ISSN 1572-8145, DOI 10.1007/s10845-014-0900-0, Springer Eds, IF jurnal anul 2016: 2.9200, WOS:000368727300003 - 2016 Rank Q1 9/44 journals in Categories Engineering, Manufacturing - 2016 Rank Q1 9/44 journals in Categories Engineering, Manufacturing

Vargas, A. Day, Saumen, Boza, A, Ortiz, A ; Ludascher, B ; **Sacala, IS** ; Moisesescu, MA (2016). Decision-Making System and Operational Risk Framework for Hierarchical Production Planning. Journal of Control Engineering and Applied Informatics, 18(3), pp. 72-81. IF jurnal anul 2016: 0.695, WOS:000384513100008 ISSN: 1454-8658

Repta, D., **I. S. Sacala**, M. A. Moisesescu, 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 Indexed Springer Link https://link.springer.com/chapter/10.1007/978-3-319-30957-6_11

2017

Repta, D., Moisesescu, 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), pp. 96-108. DOI: 10.1080/0951192X.2015.1107914 WOS:000388918000009 ISSN: 0951-192X eISSN: 1362-3052 - 2017, IF jurnal anul 2017" 1.995, Rank Q2 23/46 journals in Categories Engineering, Manufacturing

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), pp. 11-19. IF jurnal anul 2017: 0.698, WOS:000404695500002 ISSN: 1454-8658

Dumitrache, I., **Sacala, I. S.**, Moisesescu, M. A., & Caramihai, S. I. (2017). A conceptual framework for modeling and design of Cyber-Physical Systems. Studies in Informatics and Control, 26(3), pp. 325-334. IF jurnal anul 2017: 1.02, WOS:000412715700008, ISSN: 1220-1766

"Bogdan Gabriel Sandu, Alexandru Mihnea Moisesescu, 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 "

Dumitrache, Ioan, Simona Iuliana Caramihai, **Ioan Stefan Sacala**, and Mihnea Alexandru Moisesescu. "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. Indexed IEEE, ISI, DOI: 10.1109/CSCS.2017.74 WOS:000449004400067 ISBN:978-1-5386-1839-4

Pop, Eugen, Mihnea Alexandru Moisesescu, 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. Indexed IEEE, ISI WOS:000449004400069, ISBN:978-1-5386-1839-4

Sacala, Ioan Stefan, Ioan Dumitrache, Mihnea Alexandru Moisesescu, 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. Indexed IEEE, ISI WOS:000464318300171

Moiescu, Mihnea Alexandru, **Ioan Ștefan 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, pages: 6. Society for Computer Simulation International, 2017. Indexed ACM, Scopus <https://dl.acm.org/citation.cfm?id=3108250>

2018

Repta Dragos, Ioan Dumitrache, **Ioan Ștefan 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 jurnal anul 2018: 1.683 WOS:000446349200011 ISSN: 1751-7575 eISSN: 1751-7583

Repta, Dragos, Mihnea Alexandru Moiescu, Andrei Corneliu Nae, **Ioan Ștefan 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

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

"Zheng, Huiru, Jyotsna Talreja Wassan, Mihnea Alexandru Moiescu, Lacramioara Stoicu-Tivadar, João Miranda, Mihaela Crisan-Vida, **Ioan Ștefan 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"

Repta Dragos, **Sacala Ioan Ștefan**, Moiescu Mihnea Alexandru, Dumitrache Ioan, Towards Document Flow Discovery in e-health Systems, 9th International Conference on Intelligent Systems (IS), 2018, pp. 267-271, IEEE Technol & Engrn Management Soc, WOS:000469337900039, ISBN:978-1-5386-7097-2, DOI: 10.1109/IS.2018.8710557

2019

Dumitrache, Ioan, Simona Iuliana Caramihai, Mihnea Alexandru Moiescu, **Ioan Ștefan Sacala**, Luige Vladareanu, and Dragos Repta. "A Perceptive Interface for Intelligent Cyber Enterprises." Sensors 19, no. 20 (2019): 4422, WOS:000497864700070, DOI: 10.3390/s19204422, Rank Q1 15/61 journals in Category Instruments and Instrumentation, Q2 12/26 in Category Electrochemistry.

Moiescu Mihnea Alexandru, **Ioan Ștefan Sacala**, Ioan Dumitrache, Simona Iuliana Caramihai, Nicolae Constantin, Bogdan Barbulescu, and Marius Danciuc. "A Cyber-Physical Approach in Heterogeneous Communication Networks." In 2019 22nd International Conference on Control Systems and Computer Science (CSCS), pp. 616-621. IEEE, 2019, ISSN: 2379-0474, WOS: 000491270300105

Pop Eugen, Gifu Daniela, **Sacala Ioan Ștefan**, Moiescu Mihnea Alexandru, Caramihai Simona, Services Integration for Cyber Physical Systems, In 2019 22nd International Conference on Control Systems and Computer Science (CSCS), pp. 622-628. IEEE, 2019, ISSN: 2379-0474, WOS:000491270300106

Ioan Dumitrache, Simona Iuliana Caramihai, Mihnea Alexandru Moiescu, **Ioan Ștefan Sacala**, Neuro-inspired Framework for cognitive manufacturing control, IFAC PapersOnLine 52-13 (2019) 910–915, Elsevier Eds., DOI: 10.1016/j.ifacol.2019.11.311, WOS:000504282400154

Moiescu, Mihnea Alexandru, Ioan Dumitrache, Bogdan Barbulescu, **Ioan Ștefan Sacala**, Simona Iuliana Caramihai, and Marius Danciuc. "Cyber-Physical Systems Oriented Redundant Network Node." In Proceedings of the 6th Conference on the Engineering of Computer Based Systems, p. 11. ACM, 2019, DOI: 10.1145/3352700.3352711, 2020, WOS:000525376600011.

Sacala, I.S., Moisescu, M.A., Dumitrache, I., Caramihai, S.I., Constantin, N., Barbulescu, B., Danciu, M. and Calota, A.A., 2019, November. Redundant GSM and Satellite Data Transmission Device with Application in Telemedicine. In 2019 E-Health and Bioengineering Conference (EHB) (pp. 1-4). ISSN: 2575-5137, WOS:000558648300085.

"Simona, Caramihai., Ioan, D., Mihnea, Moisescu, Daniela, **S., Ioan, Sacala.** A Neuro-inspired Approach for a Generic Knowledge Management System of the Intelligent Cyber-Enterprise, IC3K 2019 - Proceedings of the 11th International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management, Volume 2, 2019, Pages 367-374, 11th International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management, IC3K 2019; Vienna; Austria; 17 September 2019 through 19 September 2019; Code 152660, ISBN: 978-989758382-7 Indexed Scopus"

2020

Janetta Culita, Simona Caramihai, Ioan Dumitrache, Mihnea Moisescu, **Ioan Stefan Sacala**, An Hybrid Approach for Urban Traffic Prediction and Control in Smart Cities, Sensor Journal, Volume 20, Issue 24, DOI: 10.3390/s20247209, December 2020, WOS:000603219900001, IF 2020: 3.576, Ranked Q1 in Category Instruments and Instrumentation in 2019.

Alexandra Cenian, Bogdan Tiganoaia, **Ioan Stefan Sacala**, Adrian Pavel, Alin Iftemi, PatientDataChain: A Blockchain-Based Approach to Integrate Personal Health Records, Sensors Journal, Volume 20, Issue 22, DOI: 10.3390/s20226538, November 2020, WOS:000595180400001, IF 2020: 3.576, Ranked Q1 in Category Instruments and Instrumentation in 2019.

Caramihai Simona, Dumitrache Ioan, Moisescu Mihnea and **Sacala Ioan**, Bio-inspired Autonomous Enterprise Systems, 21 IFAC World Congress on Automatic Control, Volume 53, Issue 2, 2020, pp. 10879-10884, ISSN: 2405-8963, DOI: 10.1016/j.ifacol.2020.12.2820, WOS:000652593100334.

Dumitrache Ioan, Caramihai Simona, **Sacala Ioan** and Moisescu Mihnea, Future Enterprise as an Intelligent Cyber-Physical System, 21 IFAC World Congress on Automatic Control, Volume 53, Issue 2, 2020, pp. 10873-10878, ISSN: 2405-8963, DOI: 10.1016/j.ifacol.2020.12.2817, WOS:000652593100333.

Pop E., Sirbu A., Moisescu M.A., Caramihai S.I., **Sacala I.S.**, Dumitrache I., Modelling food business in the context of agriculture 4.0, 11th International Conference on Simulation and Modelling in the Food and Bio-Industry, FOODSIM 2020, pp. 109-111

2021

Alexandra Cernian, Nicoleta Vasile, **Ioan Stefan Sacala**, PatientDataChain: Fostering Cyber-Physical Social Systems through an Ontological Approach to Personality Classification Based on Social Media Posts, Sensors Journal, Volume 21, Issue 19, October 2021, DOI: 10.3390/s21196611, WOS:000707221600001, IF 2020: 3.576, Ranked Q1 in Category Instruments and Instrumentation in 2021.

Dumitrache Ioan, Caramihai Simona, Popescu Dragos, Moisescu Mihnea, **Sacala Ioan Stefan**, Neuro-inspired framework for Cognitive Manufacturing Control, International Journal of Computers, Communication and Control, Volume 16, Issue 6, Dec 2021, DOI: 10.15837/ijccc.2021.6.4519, ISSN: 1841-9836, Journal impact factor in 2022: 2.7, Ranked Q2 in Automation & Control Systems.

Sacala Ioan, Pop Eugen, Moisescu Mihnea, Dumitrache Ioan, Caramihai Simona, Culita Janetta, Enhancing CPS Architectures with SOA for Industry 4.0 Enterprise Systems, Enhancing CPS Architectures with SOA for Industry 4.0 Enterprise Systems, 22-25 June 2021, 29TH MEDITERRANEAN CONFERENCE ON CONTROL AND AUTOMATION (MED), pp. 71-76, DOI: 10.1109/MED51440.2021.9480184, ISBN: 978-1-6654-2258-1, WOS: 000811823100009

Pop E., Gifu D., Stanescu A.M., Moisescu M.A., **Sacala I.S.**, Cyber Physical Systems Architecture for Collaborative Services, Proceedings - 2021 23rd International Conference on Control Systems and Computer Science Technologies, CSCS 2021, pp. 328-334, DOI 10.1109/CSCS52396.2021.00060 Indexed Scopus

Simen R.-C., **Sacala I.S.**, Bio-Cyber-Physical System for Management of Smart City's Short Term Parking, Proceedings - 2021 23rd International Conference on Control Systems and Computer

Science Technologies, CSCS 2021, pp. 287-294, DOI 10.1109/CSCS52396.2021.00054 Indexed Scopus

Beatrix-May B., **Ștefan S.I.**, Alina-Claudia P.-N., Florin P., Andreea U., A Cyber-Physical Systems Approach for Health Care Prediction, 2021 9th E-Health and Bioengineering Conference, EHB 2021, DOI 10.1109/EHB52898.2021.9657667

Balaban B.-M., **Sacala I.S.**, Petrescu-Nita A.C., Pop F., Cyber-Physical Systems - A New Approach for Keyless Entry Systems, Proceedings - 2021 23rd International Conference on Control Systems and Computer Science Technologies, CSCS 2021, pp. 260-266, DOI 10.1109/CSCS52396.2021.00050

2022

Caramihai S.I., Dumitrache I., Moisescu M.A., **Sacala I.S.**, Decision Support Collaborative Platform for e-Health Integration in Smart Communities Context, Procedia Computer Science, Volume 214, pp. 1152-1159, DOI 10.1016/j.procs.2022.11.290

Béatrix-May B., **Ștefan S.I.**, Alina-Claudia P.-N., Radu S., Security issues in MCPS when using Wireless Sensor Networks, 2022 10th E-Health and Bioengineering Conference, EHB 2022, DOI 10.1109/EHB55594.2022.9991582

2023

Mateescu A., Ștefan I.-L., Popescu D.C., **Sacala I.S.**, Raileanu S., Learning control laws in simulated environments for motion gestures of humanoid robots, Proceedings - 2023 24th International Conference on Control Systems and Computer Science, CSCS 2023, pp. 344-349, DOI 10.1109/CSCS59211.2023.00061

Beatrix-May B., **Ștefan S.I.**, Alina-Claudia P.-N., Razvan N., Integrating Blockchain Technology in a Cyber-Physical System to Secure Data, Proceedings - 2023 24th International Conference on Control Systems and Computer Science, CSCS 2023, pp. 325-328, DOI 10.1109/CSCS59211.2023.00058

2024

Banta Viorel-Costin, Sacala Ioan-Stefan, Tutui Daniela, Cretu Raluca-Florentina, Serban Elena Claudia, Manufacturing Processes in the Era of Industry 4.0. Case Study: Analysis of a System Architecture in Automotive Industry, Journal of Studies in Informatics and Control, September 2024, Volume 33, Issue 3, DOI: 10.24846/v33i3y202409, ISSN: 1220-1766, WOS:001338136400009

Ilie Liviu, Pop Eugen, Sacala Ioan Ștefan, Anghel Ana Magdalena, Burlacu Luiza, Informational Architecture Models for E-Health Systems, 2024 IEEE INTERNATIONAL CONFERENCE ON ENGINEERING, TECHNOLOGY, AND INNOVATION, ICE/ITMC 2024, JUN 24-28, 2024, DOI: 10.1109/ICE/ITMC61926.2024.10794410, 2024, WOS:001429193000120,

Ștefan Ioana Livia, Mateescu Andrei, Vlasceanu Miruna, Popescu Dragos, Sacala Ioan, Utilizing Cloud Solutions for Object Recognition in the Context of Industrial Robotics Sorting Tasks, 2024 IEEE International Symposium on Innovations in Intelligent Systems and Applications, INTERNATIONAL CONFERENCE ON INNOVATIONS IN INTELLIGENT SYSTEMS AND APPLICATIONS, INISTA, DOI: 10.1109/INISTA62901.2024.10683834, WOS:001329858400019

2025

Mateescu Andrei, Popescu Dragos Constantin, Ștefan Ioana Livia, Vlasceanu Ioana Miruna, Petrescu-Nita Alina Claudia, Sacala Ioan Ștefan, Dumitrache Ioan, Machine Learning Control for Assistive Humanoid Robots Using Blackbox Optimization of PID Loops Through Digital Twins, Romanian Journal of Information Science and Technology, Volume 28, Issue 1, pp 63-76, 2025, WOS:001450629400006, ISSN: 1453-8245, Ranked Q1 in COMPUTER SCIENCE, THEORY & METHODS, Q1 in INSTRUMENTS & INSTRUMENTATION ,

Dumitrache Mihail, Sacala Ioan Ștefan, Rotuna Carmen Ionela, Gheorghita Alexandru, Sandu Ionut, Smada Dragon, Developing an Intelligent Security Monitoring Platform for Internet Domains. A Practical Implementation Approach, Journal of Studies in Informatics and Control, March 2025, Volume 34, Issue 1, DOI: 10.24846/v34i1y202506, ISSN: 1220-1766, WOS:001470747400006

Stefan Ioana Livia, Mateescu Andrei, Lentoiu Ionut, Raileanu Silviu, Anton Florin Daniel, Popescu Dragos Constantin, Sacala Ioan Stefan, Implementation and Performance Analysis of an Industrial Robot's Vision System Based on Cloud Vision Services, Future Internet Journal, Volume 17, Issue 5, DOI: 10.3390/fi17050200, 30 April 2025, ISSN: 1999-5903, WOS: 001496014400001, Ranked Q2 in COMPUTER SCIENCE, INFORMATION SYSTEMS

Balaban Beatrix-May, Sacala Ioan-Stefan, Alina Petrescu-Nita, TriagE-NLU: A Natural Language Understanding System for Clinical Triage and Intervention in Multilingual Emergency Dialogues, Future Internet Journal, 18 July 2025, Volume 17 Issue 7, DOI: 10.3390/fi17070314, ISSN: 1999-5903, WOS: 001553292500001, Ranked Q2 in COMPUTER SCIENCE, INFORMATION SYSTEMS

Vlasceanu Ioana Miruna, Ceapa Vasilica Cerasela, Sacala Ioan Stefan, Caruntu Florin Constantin, Udrea Andreea Ioana, Constantin Nicolae, Segarceanu Mircea, Comparative Evaluation of Fuzzy Logic and Q-Learning for Adaptive Urban Traffic Signal Control, Journal of Electronics, Volume 14, Issue 14, DOI: 10.3390/electronics14142759, 9 July 2025, ISSN: 2079-9292, WOS:001539899000001, Ranked Q2 in ENGINEERING, ELECTRICAL & ELECTRONIC

Projects

Until today, I was involved in several projects, fulfilling roles such as project manager, scientific researcher, assistant manager, team member, and IT&C expert (Annex 1).

ANNEXES

Annex 1

Project/ Program name	Position	Period:
Project with business environment "Experimental development of an integrated system for digital workflow acceleration within DigestMed clinic" contract nr. 52 / 04.08.2025, value 10.080 Euros	Project director	2025-2026
PEO 2021 – 2027, POLI Education, A chance for everybody, Project number 324475, Accesibility coordinator,	Accessibility coordinator	2025-2026
FDI 2023, Contract number: CNFIS-FDI-0702 D5 2023, Extending and integrating quality systems within Politehnica Bucharest, thru the entire learning lifecycle	Member	2023
FDI 2024, Contract number: CNFIS FDI 2024 2024 F 0689, Extending evaluation platforms of academic activities and integraring quality management platforms within Politehnica Bucharest	Member	2024
FDI 2025, Contract number: CNFIS-FDI-2025-F-0679, Improving quality of academic activities thru development of an integrated environment for formalization of all resources within Politehnica Bucharet	Member	2025
FDI 2025, Contract number CNFIS-FDI-2025-F-0140, PoliNoLimits, Assuring an inclusive environment for personal and professional development of young people with disabilities	Project director	2025
PNCDI IV, Technological Transfer Festival, 2025, Contract number 5FTT/2025	Project director	2025
Erasmus + Entornos Personales de Aprendizaje Inteligentes (EPAI) Sistema Inteligente para la Gestión, Seguimiento y Recomendación de entornos personales de Aprendizaje, contract de finantare nr. 101082868 — EPAI — ERASMUS-EDU-	Project Responsible RO	2023-2026

2022-CBHE		
Erasmus+ project FTDCHÉ – Fostering the Transversal Digital Competences in Higher Education, Referinta Proiect 2022-1-ES01-KA220-HED-000089861, Adresa proiect: https://www.ftdche.eu/	Project Responsible RO	2024-2026
Proiecte de mobilitate România - Turcia, Pushing the boundaries of correlative optical nanoscopy with generative artificial intelligence, 11BMTR/2025 / 1 aprilie 2025 , 1 aprilie 2025 - 31 decembrie 2026, Cercetator, CONAGAI (ID: 220256108)	Member	2025-2026
STRATEGIC PARTNERSHIP E+, Enabling Industry 4.0 Skills in Textile SMEs, 2023-1-DE02-KA220-VET-000154009 / 1 noiembrie 2023 , 1 decembrie 2023 - 31 octombrie 2025, Cercetator	Member	2023-2025
COST ACTION CA18223 - Future communications with higher-symmetric engineered artificial materials	Project Responsible RO	2019-2023
POC contract 53/05.09.2016, ID 40 270, MySMIS 105976 Ecosystem for ICT Research, Innovation, Product and Service Development for an Internet of Things Interconnected Society - NETIO, subsidiary contract 1265 / 22.01.2018, Development of an Innovative Solution for Efficient Communication in an Industrial Environment – DIVE	Project Responsible UPB-RO	2018 - 2020
COST Action CA 16101 - MULTI-modal Imaging of FOREnsic SciEnce Evidence - tools for Forensic Science	Project Responsible RO	2017 - 2020
COST Action CA15221 – Advancing effective institutional models toward cohesive teaching, learning, research, and writing development	Project Responsible RO	2016-2020
COST Action ES1206 – Advanced Global Navigation Satellite Systems tropospheric products for monitoring severe weather events and climate (GNSS4SWEC)	Project Responsible RO	2015-2017
PN-II-PT-PCCA-2013-4-2009 „ Intelligent, versatile platform, portable with control systems in adaptive networks for rescue robots, Contract nr. 9 /2014 / MR PT699/8.9.2014	Project Responsible CPRU-RO	2014-2016
Public-Private Contract „Robotic Arm control in the aerodynamic subsonic tunnel at INCAS,” Contract nr. 24.104 from 18.12.2014	Project Responsible CPRU-RO	2014-2015
Public-Private Contract “Interfacing robotic arm with the aerodynamic tunel within INCAS”, Contract nr. 23989/28.11.2016	Project Responsible CPRU-RO	2016-2017
Public-Private Contract “Identification of propagation models for SARS-CoV2 virus within different types of communities and simulating different scenarios of transmission”	Project Responsible RO	2020
FP7 – Coordination and Support Action ICT Call 4 FP7-ICT-2009-4 Upgrading ICT excellence by strengthening cooperation between research Teams in an enlarged Europe Acronym: UNITE	Scientific researcher RO	2010 - 2012
FP7 – IP Project - Enterprise Collaboration and Interoperability Acronym: COIN	Scientific researcher RO	2010 - 2011
PNCDI2 - Partnerships 81022/2007 Advanced technologies for designing and testing equipment for navigation in complex environments.Acronym: TANACO	Scientific researcher CPRU-RO	2007 - 2010
PNCDI2-Partnerships 81011/2007 METHODS and SOFTWARE for the CALCULATION of SUBSONIC AIRCRAFT DEBIAN CONFIGURATION and DEFINE IN the pre-production stage, COLLABORATIVE CONCEPT ADAPTED to WORK IN AERONAUTICAL ENTERPRISE WIDE. Acronym: CASCADNET	Scientific researcher CPRU-RO	2007 - 2010
Infosoc - Ceex program, contract No. 138/02.10.2006-collaborative Network for research of river effects from ENVIRONMENT on human health, in the context of complex meta systems. Acronym: REMEDIU	Scientific researcher CPRU-RO	2006 - 2008
CEEX program - CERES 2006 Integrating resources from research institutes and universities in a modern ICT-based network to support innovation, technology transfer, and how to access the program “Competitiveness and Innovation” the Lisbon Strategy 2007-2013 Acronym: INTECH Transfer	Scientific researcher CPRU-RO	2006 - 2008
Increase competitiveness of enterprises through training and specialization of human resources in the field of new technologies in a knowledge-based society and for sustainable development Contract No.: POSDRU/81/3.2/S/53084 Project co-funded from “European Social Fund by the sectoral Operational Program human resources development 2007-2013”-“Invest in people!”	Assistant Manager	2010-2013
COST Action CA15120 COST Association Open Multiscale Systems Medicine (OpenMultiMed)	Member	2016 - 2019
COST Action CA15118 COST Association Mathematical and Computer Science Methods for Food Science and Industry (FoodMC)	Member	2016 - 2019

«Excelență în cercetare prin burse doctorale și postdoctorale (ExcelDOC) », Cod Contract: 132397, Project co-funded from "European Social Fund by the sectoral Operational Program human resources development 2007-2013"- "Invest in people!"	Member	2014-2015
Contract nr: POSCCE AXA 2 Operatiunea O233-2011" Increase the technical performances of the Electronic Doctro device and establish production facilities."	Member	2013-2014
H2020-FoF-C2NET project, Cloud Collaborative Manufacturing Networks (C2NET), Grant agreement ID: 636909	Member	2015-2017
Services regarding the evaluation activity of the projects financed within POC program, Axe 2 – Investment Priority 2, Action 2.2.1, POC 2014 - 2020	ICT Expert	2016 - 2017
Erasmus + Creating Virtual Reality e-resources for European Sustainable Education in circular bioeconomy with bio-based products	Member	2019-2021
Erasmus + Boosting Sustainable Digital Education for European Universities – 220-1-CZ01-KA226-HE-094408	Member	2021-2023
ERASMUS-EDU-2022-EMJM-DESIGN, Intelligence and Cybersecurity in Europe (ICE) Joint Master,	Member	2022-2023
Using the Open Source Collaborative Model for the Development, Delivery and Curation of Digital Educational Content, F-SEE-026/06.2021,	Member	2022-2023
EELISA UNlocking Full innOvation capacity buiLDing and entrepreneurship (EELISA Unfolds), Horizon Europe, May 2021 – September 2023	Member	2021-2023
Education 4.0: Living Labs for the Students of the Future (LLSF), Erasmus+ 2021-1-RO01-KA220-HED-000032176	Member	2022-2024
Consulting Services to improve the responsibilities of the Research Agency regarding the activity of analyzing the Repayment Requests of the projects financed within POSCCE Axe 2	ICT Expert	2015

Annex 2

Member of the editorial boards or scientific committees of ISI journals, chair, co-chair, or member of the organizing committees of international scientific events indexed by ISI	Role
CSCS19, The 19th International Conference on Control Systems and Computer Science - http://cscs19.acs.pub.ro/committee.html	Organizing committee member
Journal of Control Engineering and Applied Informatics, http://www.ceai.srait.ro/	Associate Editor
20th International Conference on Control Systems and Computer Science (CSCS20-2015) - http://cscs20.acs.pub.ro/committees-2/	Organizing committee member
21st International Conference on Control Systems and Computer Science (CSCS20-2017) - http://cscs21.hpc.pub.ro/committees/	Organizing committee member
IPC - 3rd International Conference on Model-Driven Engineering and Software Development (MODELSWARD 2015) http://www.modelsward.org/	Member
IPC - 4th International Conference on Model-Driven Engineering and Software Development (MODELSWARD 2016) http://www.modelsward.org/	Member
2017 2nd International Conference on Frontiers of Sensors Technologies, http://www.icfst.org/ , ISI Proceedings	Program committee member
23rd International Conference on Engineering, Technology and Innovation, International Organizing Committee, http://www.ice-conference.org/Home/Conference-Committees.aspx ,	Program committee member
2018 International Conference on Technological Advances of Sensors and Instrumentation, Conference Technical Committee, http://www.ictasi.org/	Program committee member
2017 International Symposium on Innovations in Intelligent Systems and Applications, http://www.inista.org/	Program committee member
2018 International Symposium on INnovations in Intelligent SysTems and Applications, http://www.inista.org/	Program committee member
2018 International Conference on Advanced Control, Automation and Robotics ICACAR 2018 www.icacar.org	Program committee member
2018 International Joint Conference on Robotics and Artificial Intelligence (JCRAI 2018 www.jcrai.org)	Program committee member

24th International Conference on Engineering, Technology and Innovation, International Organizing Committee, http://www.ice-conference.org/Conference/Conference-Committees.aspx , International Organizing Committee member	International Organizing Committee member
2018 International Conference on Electronics and Electrical Engineering (EEET 2018 - http://www.eeet.org/)	Program committee member
2018 Intelligent Systems Conference, 25-27 September 2018, Madeira, Portugal, http://www.ieee-is2018.com/	International organizing committee member
2018 International Symposium of Electronics and Telecommunications, http://conference.etc.upt.ro/isetc2018/	Technical committee member
2019 2nd International Conference on Communication Engineering and Technology (ICCET), http://www.iccet.org/	Technical program committee member
2019 International Conference on Technological Advances of Sensors and Instrumentation, Conference Technical Committee, http://www.ictasi.org/	Program committee member
15th China-Europe International Symposium on Software Engineering Education, International r, http://ceisee.ceisee.com/	Program committee member
2019 International Symposium on INnovations in Intelligent SysTems and Applications, http://www.inista.org/	Program committee member
2019 3rd International Conference on Frontiers of Sensors Technologies, http://www.icfst.org/ , ISI Proceedings	Program committee member
2019 International Conference on Electronics and Electrical Engineering (EEET 2019 - http://www.eeet.org/)	Program committee member
"International Conference on Engineering, Technology and Innovation", Special Session 1.13 (SS1.13): Cyber Physical Systems Paradigm - Challenges for New Generation of Advanced Engineering Systems, Iunie 2017	Special invited session
2020 International Artificial Intelligence and Blockchain Conference (AIBC 2020) http://www.aibc.org/)	Technical committee member
2020 3rd International Conference on Communication Engineering and Technology (ICCET), http://www.iccet.org/ , Technical Committee member	Technical committee member
2020 International Symposium on Innovations in Intelligent SysTems and Applications, PC member http://www.inista.org/	Program committee member
2020 International Joint Conference on Robotics and Artificial Intelligence (JCRAI 2020 www.jcrai.org)	Program committee member
2020 International Conference on Electronics and Electrical Engineering (EEET 2020 - http://www.eeet.org/)	Program committee member
2021 International Artificial Intelligence and Blockchain Conference (AIBC 2021) http://www.aibc.org/)	Technical committee member
2021 4th International Conference on Communication Engineering and Technology (ICCET), http://www.iccet.org/	Technical committee member
2020 International Symposium of Electronics and Telecommunications, Technical Program Committee, http://conference.etc.upt.ro/isetc2020/	Technical program committee member
2021 International Conference on Electronics and Electrical Engineering (EEET 2021 - http://www.eeet.org/)	Program committee member
Sensors Journal, jurnal ISI, https://www.mdpi.com/journal/sensors	Topic editor
DoCEIS 2021 - 12th Advanced Doctoral Conference on Computing, Electrical and Industrial Systems - International Program Committee - http://doceis.dee.fct.unl.pt/index.html	International program committee member
2021 International Conference on Control Theory and Control Engineering (CTCE 2021 - http://www.ctce.net/)	Program committee member
2021 International Symposium on Innovations in Intelligent SysTems and Applications, http://www.inista.org/	Program committee member
Electronics Journal, jurnal ISI, https://www.mdpi.com/journal/electronics	Topic editor
2022 5th International Conference on Communication Engineering and Technology (ICCET), http://www.iccet.org/ , Technical Committee member	Technical committee member
2022 International Artificial Intelligence and Blockchain Conference (AIBC 2022) http://www.aibc.org/)	Technical committee member

DoCEIS 2022 - 13th Advanced Doctoral Conference on Computing, Electrical and Industrial Systems - http://doceis.dee.fct.unl.pt/index.html	International program committee member
2022 International Symposium on Innovations in Intelligent SysTems and Applications, http://www.inista.org/	Program committee member
IEEE ICE-IAMOT Conference 2022, 28th IEEE ICE & 31st IAMOT Conference IEEE, https://ice-iamot-2022-conference.org/ , ICE/IAMOT	International committee member
2022 International Conference on Electronics and Electrical Engineering (EEET 2023 - http://www.eeet.org/)	Program committee member
2023 6th International Conference on Communication Engineering and Technology (ICCET), http://www.iccet.org/	Technical committee member
2023 International Artificial Intelligence and Blockchain Conference (AIBC 2023) http://www.aibc.org/	Technical committee member
2023 International Symposium on Connected and Autonomous Vehicles, https://www.socav.org/com ,	Program committee member
2023 International Conference on Electronics and Electrical Engineering (EEET 2023 - http://www.eeet.org/)	Program committee member
2023 International Conference on Engineering, Technology and Innovation, International Organizing Committee, https://blogs.ed.ac.uk/ice-2023/	Program committee member
2024 7th International Conference on Communication Engineering and Technology (ICCET), http://www.iccet.org/	Technical committee member
DoCEIS 2024 - 14th Advanced Doctoral Conference on Computing, Electrical and Industrial Systems - http://doceis.dee.fct.unl.pt/index.html	International program committee member
2024 International Artificial Intelligence and Blockchain Conference (AIBC 2024) http://www.aibc.org/	Technical committee member
2024 International Symposium of Electronics and Telecommunications	Technical committee member
5th International Conference on Innovative Intelligent Industrial Production and Logistics, IFAC INSTICC IN4PL 2024, https://in4pl.scitevents.org/	International program committee member
22nd International Conference on Control Systems and Computer Science (CSCS22-2019)	Program committee member
2025 International Artificial Intelligence and Blockchain Conference (AIBC 2025) http://www.aibc.org/	Program committee member
2025 31st edition of International Conference on Engineering, Technology and Innovation, International Organizing Committee, https://ice-conference.org/	Program committee member
6th 19th International Workshop on Enterprise Integration, Interoperability and Networking" - EI2N 2025 (https://in4pl.scitevents.org/EI2N.aspx)	Program committee member
2025 13th International Conference on Intelligent Computing and Wireless Optical Communications (ICWOC 2025), http://www.icwoc.org/	Program committee member
2025 International Symposium on INnovations in Intelligent SysTems and Applications, PC member http://www.inista.org/ PC member	Program committee member
2025 International Conference on Electronics and Electrical Engineering (EEET 2025 - http://www.eeet.org/)	Program committee member
2026 I-ESA, Interoperability for Enterprise Systems and Application Conference, https://iesa2026.digit-madeira.pt/ ,	Program committee member

Annex 3

Member of editorial boards or scientific committees of BDI-indexed journals, chair, co-chair, or member of organizing committees of international scientific events indexed by BDI	Role
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Conferinta: Supplementary Ways for Improving International Stability, SWIIS 2009, http://swiis09.srait.ro/committees.php	Organizing committee member
Conferinta: 14th IFAC Symposium on Information Control Problems in Manufacturing INCOM 2012 - http://www.incom12.ro/committees.html	Organizing committee member
2015 IEEE Advanced Information Technology, Electronic and Automation Control Conference - http://www.iaeac.org/Committees.asp	Technical committee member
IPC - 2nd International Conference on Model-Driven Engineering and Software Development (MODELSWARD 2014) http://www.modelsward.org/	Member
ICMERA 2013 International Conference on Aerospace, Robotics, Mechanical Engineering, Manufacturing Systems, Biomechanics, Neurorehabilitation and Human motricities	Technical committee member
International Journal of Computer and Software Engineering	Member
2017 International Conference on Advanced Technologies Enhancing Education (ICAT2E 2017), http://icat2e.jimdo.com/	Member
2016 International Symposium on INnovations in Intelligent SysTems and Applications, http://www.inista.org/	Program committee member
2017 5th International Conference on Network and Computing Technologies, http://www.icnct.org/	Program committee member
2017 5th International Conference on Communication and Broadband Networking, http://www.iccbn.org/	Program committee member
2017 7th International Conference on Information Technology and Society, http://www.yuinfo.org/icist2017 ICIST 2017	Program committee member
30th International Conference on Industrial, Engineering & other Applications, of Applied Intelligent Systems	Program committee member
2016 IEEE International Conference on Open Source Systems and Technologies ICOSST	Member
2017 30th International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems	Member
7th edition of the IEEE/ACSIT International Conference on Optimization of the Mechanical Engineering, Manufacturing Systems, Robotics and Aerospace (OPTIROB 2012)	Technical committee member
2nd International Conference on Environmental Science and Engineering, ESE 2017, http://www.es2017.org/ ,	Technical committee member
2018 International Conference on Communication Engineering and Technology (ICCET) - Advance on Emerging Networking Technology, http://www.iccet.org/	Technical committee member
2017 3rd International Conference on Applied Mechanics and Mechanical Automation, http://www.3rd-amma.org/	Technical committee member
2018 8th International Conference on Information Technology and Society, http://www.yuinfo.org/icist2018 ICIST 2018	Program committee member
2018 4th International Conference on Applied Mechanics and Mechanical Automation, ww.amma2018.org	Technical committee member
2019 9th International Conference on Information Technology and Society, http://www.yuinfo.org/icist2019 ICIST 2019	Program committee member
2020 10th International Conference on Information Technology and Society, http://www.yuinfo.org/icist2020 ICIST 2020	Program committee member
2020 43rd International Convention on Information, Communication and Electronic Technology /MIPRO 2020	Program committee member
2020 2nd International Conference on Big Data, IoT, and Cloud Computing (ICBICC 2020 www.icbicc.org) Conference	Technical committee member
2020 The 6th International Conference on Mechanical and Electronics Engineering (www.http://icmee.org/) Conference	Technical committee member
2020 Second International Conference on Artificial Intelligence, Information Processing and Cloud Computing (AIIPCC2020 - http://www.aiipcc.org/2020/)	Technical committee member
2020 4th International Conference on Frontiers of Sensors Technologies, http://www.icfst.org/	Program committee member
2020 International Conference on Electronics, Communications and Information Technology (CECIT 2020), http://www.cecit.net/	Technical committee member

2021 3rd International Conference on Advances in Computer Technology, Information Science and Communication, http://www.ctisc2021.net/index.html	Technical committee member
2021 11th International Conference on Information Technology and Society, http://www.yuinfo.org/icist2021 ICIST 2021	Program committee member
2021 8th International Conference on Electronics Engineering and Technology (ICEET 2021), http://www.iceet.org/ ICEET 2021	Program committee member
2021 5th International Conference on Frontiers of Sensors Technologies, http://www.icfst.org/	Program committee member
2022 5th International Conference on Mechatronics Systems and Control Engineering, http://www.icmsce.com/	Program committee member
2022 International Conference on Information Technology and Society, http://www.yuinfo.org/icist2021 ICIST 2022	Program committee member
2022 9th International Conference on Electronics Engineering and Technology (ICEET 2021), http://www.iceet.org/ ICEET 2022	Program committee member
2022 5th International Conference on Robotics and Mechatronics (ICROM 2022), http://www.icrom.org/ ICROM 2022	Program committee member
2022 6th International Conference on Frontiers of Sensors Technologies, http://www.icfst.org/	Program committee member
2023 International Conference on Power, Electrical and Communication Engineering, http://www.cpece.net/	Program committee member
2023 6th International Conference on Robotics and Mechatronics (ICROM 2022), http://www.icrom.org/ ICROM 2022	Program committee member
2023 2nd International Conference on Big Data Modeling and Optimization (BDMO 2023), http://bdmo.org/	Technical committee member
2024 the 3rd International Conference on Advanced Robotics and Automation Engineering (ARAE 2024 – www.arae.net)	Program committee member
2024 13th International Conference on Frontiers of Intelligent Technology (ICFIT 2024) will be held in Macau, China on March 8-10, 2024, http://www.icfit.org/index.html	Program committee member
2024 3rd International Conference on Cryptography, Network Security and Communication Technology (CNSCT 2024), http://iccnsct.net/	Member
2024 Fourth International Conference on Artificial Intelligence, Information Processing and Cloud Computing (AIIPCC2024 - http://www.aiipcc.org/New1015/)	Technical committee member
2024 3RD International Conference on Advances in Modern Physics Sciences and Engineering Technology- PSET 2024 http://www.icpset.com/)	Technical committee member
2024 2nd Asia Conference on Artificial Intelligence, Machine Learning and Robotics (AIMLR 2024) will take place in Singapore, during September 6-8, 2024. http://www.aimlr.net/	Technical committee member
6th International Conference on Robotics and Mechatronics (ICRoM 2024) will be held during April 24-26, 2024 in Cape Town, South Africa, with the supports of Vaal University of Technology, South Africa. http://www.icrom.org/	Technical committee member
19th International Conference on Artificial Intelligence: Methodology, Systems, Applications, IPC, http://www.aimsconference.org	Member
2024 6th International Conference on Energy, Power and Grid (ICEPG 2024), http://www.icepg.net/	Committee member
2024 8th International Conference on Frontiers of Sensors Technologies, http://www.icfst.org/	Program committee member
2024 3rd International Conference on Power Electronics and Electrical Technology, http://icpeet.org/	Committee member
2024 11th International Conference on Electronics Engineering and Technology (ICEET 2024), http://www.iceet.org/	Program committee member
23rd International Conference on Control Systems and Computer Science (CSCS23-2021)	Program committee member
24th International Conference on Control Systems and Computer Science (CSCS24-2023)	Program committee member
2025 2nd Asia Pacific Conference on Computing Technologies, Communications and Networking (CTCNet 2025), https://www.ctcnet2025.net/	Program committee member
22nd International Conference on Smart Business Technologies" - ICSBT 2025 (https://icsbt.scitevents.org)	Program committee member

2025 12th International Conference on Electronics Engineering and Technology (ICEET 2025), http://www.iceet.org/	Program committee member
17th International Conference on Knowledge Engineering and Ontology Development" - KEOD 2025 (https://keod.scitevents.org)	Program committee member
2025 15th International Conference on Communication and Network Security), https://www.iccns.org/	Program committee member
2026 International Conference on Electronics, Communications and Computer Science (ICECCS 2026), http://www.iceccs-conf.net/	Program committee member
12th International Conference on Control Engineering & Information Technology (CEIT'2026), https://www.conf-event.com/CEIT.html	Program committee member