

Profesor Dr.Ing. Theodor Borangiu

Lista publicațiilor științifice (2000-2016)

● Monografii, Capitle de carte (edituri internaționale)

1. Rodić, A., Borangiu, Th., Eds. (2016). Advances in Robot Design and Intelligent Control, Proceedings of the 25th Conference on Robotics in Alpe-Adria-Danube Region (RAAD16), Springer series Advances in Intelligent Systems and Computing, Vol. 540, DOI:10.1007/978-3-319-49058-8, ISBN978-3-319-49057-1, <http://www.springer.com/gp/book/9783319490571>
2. Borangiu, Th., Dragoicea, M., Nóvoa, H., Eds. (2016). Exploring Service Science, Springer Series Lecture Notes in Business Information, Vol. 247, ISBN 978-3-319-32688-7, DOI: 10.1007/978-3-319-32689-4, Springer Int. Publishing AG Switzerland
3. Borangiu, Th., Thomas, A., Trentesaux, D., McFarlane, D., Eds. (2016). Service Orientation in Holonic and Multi-Agent Manufacturing, Springer Series Studies in Computational Intelligence and Complexity, Vol. 640, ISBN 978-3-319-30335-2, DOI: 10.1007/978-3-319-30337-6, Springer Int. Publish. AG Switzerland
4. Borangiu, Th., Ed. (2016). Advances in Robot Design and Intelligent Control, Springer Series Advances in Intelligent Systems and Computing, no. 371, ISBN 978-3-3-319-21289-0, DOI: 10.1007/978-3-319-21290-6, Springer Int. Publish. AG Switzerland
5. Borangiu, Th., Thomas, A., Trentesaux, D., Eds. (2015). Service Orientation in Holonic and Multi-Agent Manufacturing, Springer Series Studies in Computational Intelligence and Complexity, Vol. 594, ISBN 978-3-319-15159-5, DOI: 10.1007/978-3-319-15159-5, <http://link.springer.com/book/10.1007/978-3-319-15159-5>, Springer Int. Publish. AG Switzerland
6. Borangiu, Th., Anton, F., Anton, S. (2015). Open Architecture for Vision-Based Robot Motion Planning and Control, in G. Carbone and F. Gomez-Bravo (Eds.), Motion and Operation Planning of Robotic Systems, Springer Series Mechanisms and Machine Science, Vol. 29, Chapter 3, p. 63-89, DOI 10.1007/978-3-319-14705-5_3, Springer Int. Publish. AG Switzerland
7. Borangiu, Th., Thomas, A., Trentesaux, D., Eds. (2014). Service Orientation in Holonic and Multi-Agent Manufacturing and Robotics, Springer Series Studies in Computational Intelligence and Complexity, Vol. 544, DOI: 10.1007/978-3-319-04735-5, Springer, ISBN: 978-3-319-04734-8 (Print), 978-3-319-04735-5 (Online), <http://link.springer.com/book/10.1007/978-3-319-04735-5>
8. Borangiu, Th., Thomas, A. and D. Trentesaux, Eds. (2013). Service Orientation in Holonic and Multi-Agent Manufacturing and Robotics, Springer Series Studies in Computational Intelligence and Complexity, Volume 472, DOI: 10.1007/978-3-642-35852-4, Springer ISBN 978-3-642-35851-7, <http://www.springer.com/engineering/computational+intelligence+and+complexity/book/978-3-642-35851-7>
9. Anton, F.D, Anton, S., Borangiu, Th. (2013). Human-Robot Natural Interaction with Collision Avoidance in Manufacturing Operations. In (Borangiu, Th., Thomas, A., Trentesaux, D., Eds.) Service Orientation in Holonic and Multi-Agent Manufacturing and Robotics, Springer Series SCI, Vol. 472, Chapter 24, p. 375-388, DOI: 10.1007/978-3-642-35852-4_24, Springer Int. Publish. AG Switzerland
10. Morariu, C., Morariu, O., Borangiu, Th. (2013). Manufacturing Service Bus Integration Model for Highly Flexible and Scalable Manufacturing Systems. In (Borangiu, Th., Thomas, A., Trentesaux, D., Eds.) Service Orientation in Holonic and Multi-Agent Manufacturing and Robotics, Springer Series SCI, Vol. 472, Chapter 2, p. 19-40, DOI: 10.1007/978-3-642-35852-4_2, Springer Int. Publish. AG Switzerland
11. Dragoicea, M., Borangiu, Th. (2013). A Service Science environment in the Cloud. In (Borangiu, Th., Thomas, A., Trentesaux, D., Eds.) Service Orientation in Holonic and Multi-Agent Manufacturing and Robotics, Springer Series SCI, Vol. 472, Chapter 15, p. 229-246, DOI: 10.1007/978-3-642-35852-4_15, Springer Int. Publish. AG Switzerland
12. Borangiu, Th., Ed. (2013). Information Control Problems in Manufacturing, Special issue of Journal of Intelligent Manufacturing, Springer US, DOI: 10.1007/s10845-013-0769-3, ISSN 0965-3, Springer
13. Borangiu, Th. (2013). Visual Servo Control of Robot Grasping, Chapter in book Grasping in Robotics (G. Carbone, Ed.), Springer series Mechanisms and Machine Science 10, DOI: 10.1007/978-1-4471-4664-3, Springer, ISBN: 978-1-4471-4663-6

14. Borangiu, Th., Thomas, A. and D. Trentesaux, Eds. (2012). Service Orientation in Holonic and Multi-Agent Manufacturing Control, Springer Series Studies in Computational Intelligence and Complexity, Vol. 402, DOI: 10.1007/978-3-642-27449-7, Springer, ISBN 978-3-642-27448-0, <http://www.springer.com/engineering/computational+intelligence+and+complexity/book/978-3-642-27448-0>
15. Borangiu, Th., Dolgui, A., Dumitrache, I., Filip, F.G., Eds. (2012). Proceedings volume of the 14th IFAC Symposium on Information Control Problems in Manufacturing INCOM'12, May 23-25, Bucharest, IFAC Publications, ISBN: 978-3-902661-98-2, Elsevier
16. Borangiu, Th., Anton, F.D. and Silvia Anton (2012). Dual Robot Control for Part Handling Services with Human Interaction, Book chapter in (Marco Ceccarelli Ed.) Service Robots and Robotics: Design and Applications, p. 338-356, IGI Global (2012), DOI: 10.4018/978-1-4666-0921-5.ch017, ISBN 978 1466602915, <http://www.igi-global.com/chapter/dual-robot-control-part-handling/64672>
17. Borangiu, Th., Raileanu, S., Rosu, A., Parlea, M. (2010). Holonic Robot Control for Job Shop Assembly with Dynamic Simulation, Book chapter in (Guedes, L.A., Ed.) Programmable Logic Controller, In-Tech Publications, Vienna, Austria, ISBN 978-953-7619-63-3
18. Anton, S., Anton, F.D., Borangiu, Th. (2010), Remote Robot Vision Control of a Flexible Manufacturing Cell, Book Chapter in (Ude, A. Ed.) Robot Vision, In-Tech Publications, Vienna, ISBN 978-953-7619-73-5
19. Borangiu, Th., Dumitrache, A. (2010). Robotic Arms with 3D Vision Capabilities, Book chapter in (Hall, E., Ed.) Advances in Robot Manipulators, In-Tech, Vienna, Austria, ISBN 978-953-307-070-4
20. Borangiu, Th., Anton, F.D., Anton, S. (2009). Remote Control of a Multirobot Infrastructure for E-Learning Training Sessions. Chapter 15 in (Buzzi, M. Ed.) E-learning, p. 245-270, In-Tech Publications, Vienna, ISBN 978-953-7619-23-7
21. Anton, F.D., Borangiu, Th., Anton, S. (2008). An Implementation of High Availability in Networked Robotic Systems, Chapter 4 in (Aramburo, J., Trevino, A.R., Eds.) Advances in Robotics, Automation and Control, I-Tech Education and Publishing KG, Vienna, DOI: 10.5772/5536, ISBN 978-953-7619-16-9
22. Theodor Borangiu (2006). Visual Conveyor Tracking, Chapter 4 in (Florin Ionescu, Dan Stefanoiu Eds.) Intelligent and Allied Approaches to Hybrid Systems Modelling, p. 4_1-4_63, Steinbeiss Edition Stuttgart/Berlin (2005), ISBN 3-938062-31-2
23. Borangiu, Th. (2006). Industrial Robotics: Theory, Modelling and Control, Chapter in (Sam Cubero, Ed.) Advanced Robotics Systems, Pro Literatur Verlag Robert Mayer-Scholz Germany, ISBN 3-86611-285-8
24. Borangiu, Th., Kopacek, P. Eds. (2003). Intelligent Assembly and Disassembly 2003, Proceedings Vol. of IFAC Int. Workshop Intelligent Assembly and Disassembly IAD '03, IFAC Publications, Elsevier Ltd, Oxford, UK, ISBN 0-08-044065 7, ISSN 1474-6670

● **Monografii, Capitole de carte (edituri naționale)**

1. Borangiu, Th., Ivanescu, M. (2016). Robotica, Chapter 35 in (Dumitrache, I, Ed.) Automatica, Vol. III, p. 385-554, Publishing House of Romanian Academy, Bucharest, 2016, ISBN 978-973-27-2613-6
2. Borangiu, Th., Voinescu, I., Eds. (2016). Book of abstracts and digital Preprints volume of Int. Conf. IESS1.6, AGIR Publish. House, Bucharest, ISBN 978-973-720-631-2
3. Borangiu, Th., Voinescu, I., Eds. (2015). Book of Abstracts and digital Preprints volume of Int. Workshop SOHOMA'15, AGIR Publishing House, Bucharest, ISBN 978-973-720-608-4
4. Borangiu, Th., Raileanu, S., Hossu, R., Stocklosa, O., Eds. (2015). Multi-agent systems for holonic manufacturing control (In Romanian, Sisteme multi-agent pentru conducerea fabricatiei holonice), AGIR Publishing House, Bucharest, ISBN 978-973-720-621-3
5. Borangiu, Th., Voinescu, I., Eds. (2015). Book of Abstracts and digital Preprints volume of Int. Conference RAAD 2015, AGIR Publishing House, Bucharest, ISBN 978-973-720-568-1
6. Borangiu, Th., Anton, F., Anton, S. (2014). Integration of Robot-Vision Systems in Flexible Manufacturing Lines (in Romanian, Integrarea sistemelor robot-vedere artificiala in linii de fabricatie flexibila), Politehnica Press, Bucharest, ISBN 978-606-515-559-6
7. Borangiu, Th., Ed. (2014). Service Orientation in Holonic and Multi-Agent Manufacturing, Preprints volume of the International Workshop SOHOMA'14, Nov. 5-6, Nancy, AGIR Publishing House, Bucharest , ISBN 978-973-720-550-6

8. Borangiu, Th., Ed. (2013). Service Orientation in Holonic and Multi-Agent Manufacturing and Robotics. Preprints vol. of the International Workshop SOHOMA'13, June 20-22, Valenciennes, France, AGIR Publishing House, Bucharest, ISBN 978-973-720-490-5
9. Borangiu, Th., Dobrescu, R. Eds. (2013). Fostering Innovation in Healthcare Services, Proceedings vol. of the International Workshop FISH, March 14-15, 2012, Brasov, University Publishing House "Carol Davila", Bucharest 2013, ISBN 978-973-708-659-4
10. Borangiu, Th., Dumitrache, A., Anton, F.D. (2010). Robot Programming (in Romanian, Programarea Robotilor) in AGIR Press, Bucharest, ISBN 978-973-720-337-K
11. Borangiu, Th., Ed. (2009). Proceedings Vol. of the 18th Int. Workshop on Robotics in Alpe-Adria-Danube Region - RAAD'09, Brasov, May 25-27, AGIR Press, ISBN 978-606-521-315-9, ISSN 2066-4745
12. Anton, F.D., Borangiu, Th., Anton, S. (2008). Software System for Remote Control of Industrial Robots, Chapter 2 in book Sharing Training and Research Resources, Universitaria Craiova Press, ISBN 978-606-510-228-6
13. Borangiu, Th., coordinator (2006). DB2 UDB Fundamentals and Administration, AGIR Press, Bucharest, ISBN 973-720-088-8
14. Borangiu, Th., coordinator (2006). DB2 UDB Exercises, AGIR Press, Bucharest, ISBN 973 720-080-6
15. Borangiu, Th., Ed. (2005). Proceedings Vol. of the 14th International Workshop on Robotics in Alpe-Adria-Danube Region - RAAD'05, PRINTECH Press, Bucharest, ISBN 973-718-241-3
16. *Theodor Borangiu (2004). Intelligent Image Processing in Robotics and Manufacturing*, Romanian Academy Publishing House (2004), Bucharest, ISBN 973-27-1103-5
17. Stefanoiu, D., Borangiu, Th., Ionescu, F. (2004). Robot Modelling and Simulation. Applications and Solved Problems, Romanian Academy Press and AGIR Press, Bucharest, ISBN 973-27-1082-9
18. Borangiu, Th. (2003). Advanced Robot Motion Control, Romanian Academy Press and AGIR Press, ISBN 973-27-0968-1 and 973-8166-64-6
19. Borangiu, Th., Ed. (2003). Intelligent Assembly and Disassembly Preprints Vol. of the IFAC Workshop IAD 2003, PRINTECH Press, Bucharest
20. Borangiu, Th., Ionescu, F. (2002). Robot Modelling and Simulation, Romanian Academy Press and AGIR Press, Bucharest, ISBN 973-27-0927-8 and 973-8130-64-6
21. Borangiu, Th., Dupas, M. (2001). Robot – Vision. Mise en oeuvre en V+ (in French), Romanian Academy Press and AGIR Press, Bucharest, ISBN 973-27-0850-6 and 973-8130-64-6
22. Borangiu, Th., Ivanescu, N.-A. (2001). Programmable Logic Controllers. Theory and Problems (in Romanian, Automate Programabile. Teorie si Probleme), PRINTECH Press, Bucharest, ISBN 973-9478-12

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

1. Drăgoicea, M., Borangiu, Th., Voinescu, I. (2016). Service interactions modeling for improved management of public transport systems, Transactions of The Society for Modeling and Simulation International, SIMULATION March 2016, vol. 92, no. 3, p. 233-250, SAGE Journals, DOI: 10.1177/0037549716629232, WOS: 000371657700002
2. Trentesaux, D., Borangiu, Th., Thomas, A. (2016). Emerging ICT concepts for smart, safe and sustainable industrial systems, Editorial, Computers in Industry, Vol. 81, p. 1-10, September 2016, DOI: 10.1016/j.compind.2016.05.001, <http://dx.doi.org/10.1016/j.compind.2016.05.001>, Elsevier, WOS: 000378954700001
3. Răileanu, S., Borangiu, Th., Silișteanu, A. (2016). Centralized HMES with Environment Adaptation for Production of Radiopharmaceuticals. In (Borangiu, Th., Thomas, A., Trentesaux, D., Eds.) Service Orientation in Holonic and Multi-Agent Manufacturing, Springer Series Studies in Computational Intelligence, Vol. 640, Chapter 1, p. 3-18, DOI: 10.1007/978-3-319-30337-6_1, Springer, ISBN 978-3-319-30335-2, WOS:000386325800001
4. Morariu, O., Morariu, C., Borangiu, Th. (2016). Security Issues in Service Oriented Manufacturing Architectures with Distributed Intelligence. In (Borangiu, Th., Thomas, A., Trentesaux, D., Eds.) Service Orientation in Holonic and Multi-Agent Manufacturing, Springer Series Studies in Computational Intelligence, Vol. 640, Chapter 23, p. 243-263, DOI: 10.1007/978-3-319-30337-6_23, Springer, ISBN 978-3-319-30335-2, WOS:000386325800023
5. Oltean, V.E., Borangiu, Th., Dragoicea, M. (2016). On a Qualitative Game Theoretic Approach of Teacher-Student Interaction in a Public Higher Education Service System. In (Borangiu, Th., Dragoicea, M., Nόvoa,

- H., Eds.) Exploring Service Science, Springer Series LNBIP, Vol. 247, Chapter 2, p. 15-29, DOI: 10.1007/978-3-319-32689-4_2, Springer, ISBN 978-3-319-32689-4, WOS: 000386914200002
6. Morariu, O., Borangiu, Th., Morariu, C., Raileanu, S. (2016). Service Oriented Mechanisms for Smart Resource Allocation in Private Manufacturing Clouds. In (Borangiu, Th., Dragoicea, M., Nóvoa, H., Eds.) Exploring Service Science, Springer Series Lecture Notes in Business Information Processes (LNBIP), Vol. 247, Chapter 28, p. 367-383, DOI: 10.1007/978-3-319-32689-4_28, Springer, ISBN WOS: 000386914200028, ISBN:978-3-319-32689-4, WOS: 000386914200028
 7. Borangiu, Th., Raileanu, S., Voinescu, I., Morariu, O. (2016). Dynamic Service Capacity and Demand Matching in a Holonic Public Transport System. In (Borangiu, Th., Dragoicea, M., Nóvoa, H., Eds.) Exploring Service Science, Springer Series LNBIP, Vol. 247, Chapter 44, p. 573-589, DOI: 10.1007/978-3-319-32689-4_44, Springer, ISBN 978-3-319-32689-4, WOS: 000386914200044
 8. Raileanu, S., Borangiu, Th., Anton, F. (2016). Establishing Optimal Energy Working Parameters for a Robotized Manufacturing Cell, in Borangiu, Th. (Ed). Advances in Robot Design and Intelligent Control, Springer Series Advances in Intelligent Systems and Computing, no. 371, Chapter 2, p. 13-25, DOI: 10.1007/978-3-319-21290-6_2, Springer, ISBN 978-3-319-21289-0, WOS:000381804400002
 9. Anton, F., Anton, S., Raileanu, S., Borangiu, Th. (2016). Optimizing Trajectory Points for High Speed Robot Assembly Operations, in Borangiu, Th. (Ed). Advances in Robot Design and Intelligent Control, Springer Series Advances in Intelligent Systems and Computing, no. 371, Chapter 13, p. 127-135, DOI: 10.1007/978-3-319-21290-6_13, Springer, ISBN 978-3-319-21289-0, WOS:000381804400013
 10. Dragoicea, M., Borangiu, Th. (2016). Case Studies for Education in Robotics: From Serious Games to “Technology to Teach Technology” Platforms, in Borangiu, Th. (Ed). Advances in Robot Design and Intelligent Control, Springer Series Advances in Intelligent Systems and Computing, no. 371, Chapter 25, p. 13-25, DOI: 10.1007/978-3-319-21290-6_25, Springer, ISBN 978-3-319-21289-0, WOS:000381804400025
 11. Raileanu, S., Anton, F., Iatan, A., Borangiu, Th., Anton, S. (2015). Optimizing Power Consumption in Robotized Job-Shop Manufacturing, in Springer Series Studies in Computational Intelligence and Complexity, Vol. 594, Chapter 2, p. 13-28, DOI: 10.1007/978-3-319-15159-5-2, Springer, ISBN 978-3-319-15159-5, WOS: 000388437300002
 12. Morariu, O., Borangiu, Th., Raileanu, S. (2015). Redundancy Mechanisms for Virtualized MES Workloads in Private Cloud, in Springer Series Studies in Computational Intelligence and Complexity, Vol. 594, Chapter 14, p. 147-156, DOI: 10.1007/978-3-319-15159-5-2, Springer, ISBN 978-3-319-15159-5_14, WOS: 000388437300014
 13. Borangiu, Th., Morariu, C., Morariu, O., Dragoicea, M., Raileanu, S., Voinescu, I. (2015). A Service oriented architecture for total manufacturing enterprise integration, in Nóvoa, H., Dragoicea, M., (Eds.) Exploring Service Science, Springer Series Lecture Notes in Business Information, Vol. 201, Chapter 8, p. 95-108, DOI: 10.1007/978-3-319-14980-6-8, Springer, ISBN 978-3-319-14979-0, WOS:000357487100008
 14. Militaru, Gh., Purcarea, A.-A., Borangiu, Th., Dragoicea, M., Negoita, D.O. (2015). How Social Responsibility Influences Innovation of Service Firms: An Investigation of Mediating Factors, in Nóvoa, H., Dragoicea, M. (Eds.) Exploring Service Science, Springer Series Lecture Notes in Business Information, Vol. 201, Chapter 11, p. 139-151, DOI: 10.1007/978-3-319-14980-6-11, Springer, ISBN 978-3-319-14979-0, WOS:000357487100011
 15. Thomas, A., Borangiu, Th., Trentesaux, D. (2015). Holonic and multi-agent technologies for service and computing oriented manufacturing, Editorial, Journal of Intelligent Manufacturing, Print ISSN: 0956-5515, On line ISSN: 1572-8145, DOI 10.1007/s10845-015-1188-4, published on line: 31 December 2015, Springer
 16. Morariu, O., Borangiu, Th., Raileanu, S., Morariu, O. (2015). Redundancy and scalability for virtualized MES Systems with Programmable Infrastructure, Computers in Industry, In Press, Available online, 9 October 2015, DOI: 10.1016/j.compind.2015.08.011, Elsevier, WOS: 000378954700003
 17. Raileanu, S., Anton, F., Iatan, A., Borangiu, Th., Anton, S., Morariu, O. (2015). Resource scheduling based on energy consumption for sustainable manufacturing, Journal of Intelligent Manufacturing, DOI 10.1007/s10845-015-1142-5, Print ISSN: 0956-5515, On line ISSN: 1572-8145, Springer, published on line: 20 August 2015, <http://rd.springer.com/article/10.1007/s10845-015-1142-5?no-access=true> ,
 18. Morariu, O., Morariu, C., Borangiu, Th. (2015). vMES: Virtualization Aware Manufacturing Execution System, *J. Computers in Industry*, no. 67, February 2015, p. 27-37, Elsevier, WOS: 000349585700003 DOI:10.1016/j.compind.2014.11.003, <http://dx.doi.org/10.1016/j.compind.2014.11.003>
 19. Borangiu, Th., Raileanu, S., Berger, T., Trentesaux, D. (2015). Switching mode control strategy in manufacturing execution systems, International Journal of Production Research IJPR, Vol. 53, issue 7, p.

- 1950-1963, Francis & Taylor, Oxfordshire, UK, DOI: 10.1080/00207543.2014.935825, <http://dx.doi.org/10.1080/00207543.2014.935825>, WOS: 000349585700003
20. Morariu, O., Morariu, C., Borangiu, Th. (2014). Resource, Service and Product: Real-Time Monitoring Solution for Service Oriented Holonic Manufacturing Systems, in Springer Series Studies in Computational Intelligence and Complexity, Vol. 544, Chapter 4, p. 47-62, DOI 10.1007/978-3-319-04735-5-4, Springer, ISBN: 978-3-319-04734-8, WOS: 000388251900004
 21. Borangiu, Th., Dragoicea, M., Oltean, V. E., Iacob, I. (2014). A Generic Service System Activity Model with Event-Driven Operation Reconfiguring Capability, in Springer Series Studies in Computational Intelligence and Complexity, Vol. 544, Chapter 11, p. 159-175, DOI 10.1007/978-3-319-04735-5-11, ISBN: 978-3-319-04734-8, WOS: 000388251900011
 22. Anton, F., Anton, S., Borangiu, Th. (2014). Integration of Visual Quality Control Services in Manufacturing Lines, in Springer Series Studies in Computational Intelligence and Complexity, Vol. 544, Chapter 22, p. 329-342, DOI 10.1007/978-3-319-04735-5-22, ISBN: 978-3-319-04734-8, WOS: 000388251900022
 23. Raileanu, S., Borangiu, Th., Radulescu, S. (2014). Towards an Ontology for Distributed Manufacturing Control, in Springer Series Studies in Computational Intelligence and Complexity, Vol. 544, Chapter 7, p. 97-109, DOI 10.1007/978-3-319-04735-5-7, ISBN: 978-3-319-04734-8, WOS: 000388251900007
 24. Borangiu, Th., Oltean, V. E., Dragoicea, M., Falcao e Cunha, J., Iacob, I. (2014). Some Aspects Concerning a Generic Service Process Model Building, in (Snene, M., Leonard, M., Eds) Exploring Service Science, Springer Series Lecture Notes in Business Information, Vol. 169, Chapter 1, p. 1-16, DOI: 10.1007/978-3-319-04810-9-1, Springer, ISBN 978-3-319-04810-9, WOS:000342692500001
 25. Dragoicea, M., Borangiu, Th., Falcao e Cunha, J., Oltean, V. E., Faria, J., Radulescu, S. (2014). Building an Extended Ontological Perspective on Service Science, in (Snene, M., Leonard, M., Eds) Exploring Service Science, Springer Series Lecture Notes in Business Information, Vol. 169, Chapter 2, p. 17-30, DOI: 10.1007/978-3-319-04810-9-2, Springer, ISBN 978-3-319-04810-9, WOS:000342692500002
 26. Morariu, O., Morariu, C., Borangiu, Th. (2014). Shop-floor Resource Virtualization Layer with Private Cloud Support, Journal of Intelligent Manufacturing, Springer, January 30, 2014, DOI: 10.1007/s10845-014-0878-7, ISSN: 0956-5515, <http://link.springer.com/article/10.1007/s10845-014-0878-7>, WOS: 000372173800013
 27. Morariu, O., Morariu, C., Borangiu, Th. (2014). Smart Resource Allocations for Highly Adaptive Private Cloud Systems, Journal of Control Engineering and Applied Informatics, vol. 16 . no. 3, 2014, p. 23-34, ISSN 1454-8658, WOS: 000342715400003
 28. Morariu, O., Borangiu, Th., Morariu, C., Raileanu, S. (2014). Multi-Agent System for Heterarchical Product-Driven Manufacturing, in Proceedings vol. of the 19th Int. Conf. on Automation, Quality and Testing, Robotics, AQTR'14, May 22-24 Cluj-Napoca, Romania, DOI:10.1109/AQTR.2014.6857897, IEEE Xplore Digital Library, ISBN 978-1-4799-3730-1, 978-1-4799-3731-8, WOS: 000346131600063 <http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=6857897&url=http%3A%2F%2Fieeexplore.ieee.org%2Fstamp%2Fstamp.jsp%3Ftp%3D%26arnumber%3D6857897>
 29. Raileanu, S., Borangiu, Th. Morariu, O., Stocklosa, O. (2014). ILOG-based Mixed Planning and Scheduling System for Job Shop Manufacturing, in Proceedings vol. of the 19th Int. Conf. on Automation, Quality and Testing, Robotics, AQTR'14, May 22-24 Cluj-Napoca, Romania, DOI: 978-1-4799-3731-8, ISBN 978-1-4799-3731-8, IEEE Xplore Digital Library, WOS: 000346131600064 http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=6857898&punumber%3D6850266%26filter%3DAND%28p_IS_Number%3A6857810%29%26pageNumber%3D4
 30. Borangiu, Th., Ionita, A.D., Dragoicea, M., Falcao e Cunha, J. (2014). Practices and platforms for aligning higher education to the European trends in service innovation, in Proc. of the 10th Int. Conf. on „e-Learning and Software for Education” ELSE'14, Bucharest, April 24-25, 2014, Vol. 3, p. 59-64, DOI: 10.12753/2066-026X-14-000, ISSN: 2066026X, WOS:000357197700008, <http://proceedings.elseconference.com/index.php?r=site/index&year=2014&index=papers&vol=15&paper=efe86b4bb8e7ef810f9113477d5eeab3>
 31. Morariu, O., Morariu, C., Borangiu, Th. (2014). Formalized Information Representation for Intelligent Products in Service-Oriented Manufacturing, International Journal of Computer Integrated Manufacturing, 20 (7), Special issue on "Advances for the next Generation of Intelligent Manufacturing Systems", Francis & Taylor, ISSN 0951-192X (Print), 1362-3052 (Online)
 32. Borangiu, Th., Raileanu, S., Trentesaux, D, Berger, T., Iacob, I. (2014). Distributed Manufacturing Control with Extended CNP Interaction of Intelligent Products, Journal of Intelligent Manufacturing (2014), Vol.

- 25, issue 5, p. 1065–1075, Springer, DOI: 10.1007/s10845-013-0740-3, ISSN: 0956-5515, WOS: 000341501800018 <http://link.springer.com/article/10.1007/s10845-013-0740-3>
33. Borangiu, Th. (2014). Editorial, *Journal of Intelligent Manufacturing* (2014), Vol. 25, issue 5, p. 1051-1052, DOI: 10.1007/s10845-013-0740-3, ISSN: 0956-5515, <http://link.springer.com/article/10.1007/s10845-013-0740-3>, Springer, WOS: 000341501800016
 34. Morariu, O., Morariu, Cristina and Th. Borangiu (2013). Transparent Real Time Monitoring for Multi-tenant J2EE Applications, *Journal of Control Engineering and Applied Informatics*, ISSN 1454-8658, vol. 15, no. 4 (2013), p. 37-46, WOS: 000329083400004
 35. Morariu, C., Morariu, O., Borangiu, Th. (2013). Customer order management in service oriented holonic manufacturing, *Computers in Industry*, Vol. 64, Issue 8, p. 1061–1072, ISSN 0166-34615, DOI: 10.1016/j.compind.2013.07.007, <http://www.sciencedirect.com/science/article/pii/S0166361513001553>, Elsevier, WOS: 000325675600015
 36. Borangiu, Th., Dragoicea, Monica, Oltean Ecaterina and Iulia Iacob (2013). A Model for Open, On-Demand, Collaborative Education for Service Science, *Proceedings of the 4th International Conference on Exploring Service Science IESS 2013*, February 7-8, 2013, Porto, Lecture Notes in Business Information Processing, Vol. 143, p. 306-312, Springer, ISBN 978-3-642-36356-6, WOS:000342691500024
 37. Morariu, O., Morariu, C., Borangiu, Th. (2013). Multi Layer QoS Monitoring in Private Clouds, *Proceedings of the 24th International Workshop on Database Expert Systems Applications, DEXA'13, IEEE Computer Society 2013*, DOI: 10.1109/DEXA.2013.31, ISBN: 978-0-7695-5070-1, WOS: 000335791800043
 38. Morariu, C., Morariu, O., Borangiu, Th. (2013). Advanced Shop-Floor Scheduling with Genetic Algorithm for Combined Horizon Optimization in Holonic Manufacturing Systems. In (Marik, V., Ed.) *Industrial Applications of Holonic and Multi-Agent Systems HOLOMAS'13*, Lecture Notes in Computer Science, Vol. 8062, 2013, p. 25-36, DOI: 10.1007/978-3-642-40090-2_3, ISBN 978-3-642-40089-6, Springer
 39. Morariu, O., Morariu, C., Borangiu, Th. (2013). From Service Oriented to Cloud Powered Manufacturing Systems, *Proceedings of the 6th IEEE/ACM International Conference on Utility and Cloud Computing, IEEE Technical Committee on Scalable Computing, 2013, Dresden, Germany*
 40. Borangiu, Th., Dumitrache, A., Dogar, A. (2012). Heuristic solution for constrained 7-DOF motion planning in 3D scanning application, *Control Engineering Practice*, Volume 20, Issue 2, p. 93-101 (2012), ISSN: 09670661, Elsevier Ltd., DOI: 10.1016/j.conengprac.2011.07.008, WOS: 000299987600001
 41. Borangiu, Th., Răileanu, S., Stocklosa, O., Tahon, C., Berger, T., Trentesaux, D. (2012). Service Oriented Control Framework for a Holonic System Characterized by a Guided Flow of Entities. In (Borangiu, Th., Thomas, A., Trentesaux, D., Eds.) *Service Orientation in Holonic and Multi-Agent Manufacturing Control*, Springer Series SCI, Vol. 402, Chapter 2, p. 21-34, DOI: 10.1007/978-3-642-27449-7_2, Springer, WOS: 000309734000002
 42. Anton, F.D., Borangiu, Th., Anton, S., Ceccarelli, M., Carbone, G. (2012). Integrating Intelligent Robot Services in Holonic Manufacturing. In (Borangiu, Th., Thomas, A., Trentesaux, D., Eds.) *Service Orientation in Holonic and Multi-Agent Manufacturing Control*, Springer Series SCI, Vol. 402, Chapter 6, p. 75-88, DOI: 10.1007/978-3-642-27449-7_6, Springer, WOS: 000309734000006
 43. Raileanu, S., Parlea, M., Borangiu, Th., Stocklosa, O. (2012). A JADE Environment for Product Driven Automation of Holonic Manufacturing. In (Borangiu, Th., Thomas, A., Trentesaux, D., Eds.) *Service Orientation in Holonic and Multi-Agent Manufacturing Control*, Springer Series SCI, Vol. 402, Chapter 20, p. 265-278, DOI: 10.1007/978-3-642-27449-7_20, Springer, WOS: 000309734000020
 44. Morariu, C., Morariu, O., Borangiu, Th. (2012). Volunteer Based Search Engine for Holonic Manufacturing Services. In (Borangiu, Th., Thomas, A., Trentesaux, D., Eds.) *Service Orientation in Holonic and Multi-Agent Manufacturing Control*, Springer Series SCI, Vol. 402, Chapter 22, p. 293-306, DOI: 10.1007/978-3-642-27449-7_22, Springer, WOS: 000309734000022
 45. Dumitrache, A., Borangiu, Th., Pateloup, S., Gogu, G. (2012). Knowledge-based Adaptive Machining for Service Oriented Architectures. In (Borangiu, Th., Thomas, A., Trentesaux, D., Eds.) *Service Orientation in Holonic and Multi-Agent Manufacturing Control*, Springer Series SCI, Vol. 402, Chapter 25, p. 335-348, DOI: 10.1007/978-3-642-27449-7_25, Springer, WOS: 000309734000025
 46. Morariu, O., Morariu, C., Borangiu, Th. (2012). A genetic algorithm for workload scheduling in cloud based e-learning, *Proceedings of the 2nd International Workshop on Cloud Computing Platforms, ACM 2012, New York*, p. 5, DOI:10.1145/2168697.2168702, ISBN: 978-1-4503-1161-8
 47. Morariu, O., Morariu, C., Borangiu, Th. (2012). A Genetic Algorithm for Workload Scheduling in Cloud based e-Learning, in *Proceedings Vol. of the 18th IEEE International Conference on Automation, Quality*

and Testing, Robotics AQTR 2012, May 24-27, Cluj-Napoca, Romania, DOI: 10.1109/AQTR.2012.6237673, ISBN 978-1-4673-0701-7

48. Morariu, Cristina, Morariu, O. and Th. Borangiu (2012). Modelling and Simulation for Service-Oriented Agent Based Manufacturing Systems, Proceedings of the 18th IEEE Int. Conference "Automation Quality, Testing and Robotics AQTR'12", Cluj-Napoca, p. 44-49, DOI: 10.1109/AQTR.2012.6237673, ISBN 978-1-4673-0701-7
49. Dumitrache, A., Borangiu, Th. (2012). IMS10-image-based milling toolpaths with tool engagement control for complex geometry, Engineering Applications of Artificial Intelligence, Vol. 25, Issue 6, p. 1161-1172, DOI: 10.1016/j.engappai.2011.026, Pergamon Press, WOS: 000308122700006
50. Berger, Th., Sallez, Y., Raileanu, S., Tahon, Ch., Trentesaux, D., Borangiu, Th. (2011). Personal Rapid Transit in an open-control framework, Computers & Industrial Engineering, Volume 61, Issue 2, pag. 300-312 (2011), DOI: 10.1016/j.cie.2010.12.010, ISSN 0360-8352, Elsevier Ltd., WOS: 000295758700007
51. Dumitrache, A., Borangiu, Th. (2011), An Integrated Robot Simulation Workspace for Real Time Collision Free 3D Laser Scanning Applications, Control Engineering and Applied Informatics CEAI revue, Vol.13, No. 1, Bucharest, p. 25-34, ISSN 1454-8658, WOS: 000289043500005
52. Stanculeanu, I., Borangiu, Th. (2011). Quadrotor Black-Box System Identification, Proceedings Volume of the International Conference on Intelligent Control, Robotics, and Automation, ICICRA'11, July 13-15, 2011, Naarden, NL, eISSN: 2010-3778, World Academy of Science, Engineering and Technology Int. J. of Mechanical, Aerospace, Industrial, Mechatronic and Manufacturing Engineering Vol. 5, No. 6, 2011, waset.org/Publication/15465
53. Borangiu, Th. (2011). IBM Service Oriented Technologies and Management for Smarter Enterprise, Proceedings Volume of the 15th IEEE International Conf. on System Theory, Control and Computing ICSTCC'10, October 14-16, 2011, Sinaia, IEEE Cat. No. CFP1136p-prt, ISBN 978-1-4577-1173-2, IEEE Xplore Digital Library, INSPEC Accession Number: 12390376, <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6085670&isnumber=6085648>
54. Anton, F.D., Anton, S., Borangiu, Th. (2010). Implementing RDA in Robot Vision Manufacturing Cells – A practical approach, Proceedings of International Conference on Mechanical Engineering, Robotics and Aerospace (ICMERA'10), IEEE Cat. Number: CFP1057L-PRT, ISBN 978-1-4244-8867-4,
55. Borangiu, Th., Anton, F.D., Dogar, A. (2010). Visual Robot Guidance in Conveyor Tracking with Belt Variables, in Proceedings of the IEEE International Conference on Automation, Quality and Testing, Robotics AQTR'10 - THETA 17th edition, Cluj-Napoca, Romania, May 28-30, IEEE Xplore Digital Library, DOI: 10.1109/AQTR.2010.5520880, ISBN: 978-1-4244-6724-2, INSPEC Accession Number: 11508508
56. Borangiu, Th., Raileanu, S., Trentesaux, D., Berger, T. (2010), Open Manufacturing Control with Agile Reconfiguring of Resource Services, Control Engineering and Applied Informatics 12(4):10-17, June 2010, DOI: 10.1109/RAAD.2010.5524614, WOS: 000285900300002
57. Borangiu, Th., Gilbert, P., Ivanescu, N.-A., Rosu, A. (2009). An implementing framework for holonic manufacturing control with multiple robot-vision stations, Engineering Applications of Artificial Intelligence, Volume 22, Issues 4-5, p. 505–521 (2009), DOI: 10.1016/j.engappai.2009.03.001, ISSN 0952-1976, Elsevier Ltd., WOS: 000268057700003
58. Theodor Borangiu (2009). A Service Oriented Architecture for Holonic Manufacturing Control. Chapter in (Imre Rudas, Fodor Janos Eds.) Towards Intelligent Engineering and Information Technology, Springer Series Studies in Computational Intelligence, Vol. 243, p. 489-504, DOI: 10.1007/978-3-642-03737-5, Springer Verlag, ISBN 978-3-642-03736-8 <http://www.springer.com/engineering/computational+intelligence+and+complexity/book/978-3-642-03736-8>, 26 KVK libraries <http://link.springer.com/book/10.1007/978-3-642-27449-7/page/1>
59. Borangiu, Th., Anton F.D., Anton, S. (2009). LabView Based Control and Simulation of a Construction Robot. Chapter in (Visa, I., Ed.) Springer SYROM'09 Proceedings of the 10th IFToMM International Symposium on Science of Mechanisms and Machines, p. 583-596, DOI: 10.1007/978-90-481-3522-654, Springer, ISBN 978 9048135219, WOS: 000289492600049
60. Anton, S., Anton, F.D., Borangiu, Th. (2008). Remote Robot Control And High Availability, Proceedings of the 5th International Conference on Informatics in Control, Automation and Robotics – ICINCO'08, May, 11-15, Funchal, Madeira, Portugal, p. 229-232, ISBN 978-989-8111-32-6, WOS: 000258901100041, <http://dblp.org/rec/html/conf/icinco/AntonAB08>, <http://dblp.dagstuhl.de/db/conf/icinco/icinco2008-ra2.html#AntonAB08>

61. Borangiu, Th., Dogar, A., Dumitrache, A. (2008). Modelling and Simulation of Short Range 3D Triangulation-Based Laser Scanning System, *Int. Journal of Computers, Communications & Control IJCCC*, Vol. 3, No. 4, 2008, DOI: 10.1.1.590.2725 , WOS: 000257497600025
62. Borangiu, Th., Anton, F.D., Anton, S., Ivanescu, N.A. (2008). Remote Control of a Multirobot Infrastructure for E-Learning Training Sessions, *Proceedings Vol. of IEEE Int. Conference on Automation, Quality and Testing, Robotics AQTR 2008 - THETA 16th Edition, May 22-25, Cluj-Napoca, Romania*, DOI: 10.1109/AQTR.2008.4588848, ISBN 978-1-4244-2576-1, IEEE Xplore Digital Library, INSPEC Accession Number: 10220945, WOS: 000259080000057
63. Borangiu, Th., Dogar, A., Dumitrache, A. (2008). Constraint-based Motion Planning for an Automatic, Flexible Laser Scanning Robotized Platform, *Proceedings Vol. of IEEE Int. Conference on Automation, Quality and Testing, Robotics AQTR 2008 - THETA 16th Edition, May 22-25, Cluj-Napoca, Romania*, DOI: 10.1109/AQTR.2008.4588795 , ISBN 978-1-4244-2576-1, IEEE Xplore Digital Library, INSPEC Accession Number: 10220909, WOS: 000259080000006
64. Borangiu, Th., Gilbert, G., Ivanescu, N.A., Rosu, A. (2008). Holonic Robot Control for Job Shop Assembly by Dynamic Simulation, *Proceedings Vol. of the 16th Mediterranean Conference on Control and Automation – MED'08, June 25-27, Ajaccio, France*, ISBN 978-1-4244-2505-1, IEEE Catalog No. CFP08MED-CDR, WOS: 000261534400250
65. Ivanescu, N.A., Borangiu, Th., Brotac, S. (2008). Emulating PLC on a Microcontroller, *Proceedings Vol. of the 19th DAAAM Int. Symposium Intelligent Manufacturing & Automation, Focus on Next Generation of Intelligent Syst. and Solutions, October 22-25, 2008, Trnava, Slovakia*, ISSN 1726-9679, ISBN 978-3-901509-68-1, WOS: 000262860100331
66. Borangiu, Th., Ivanescu, N.-A. (2008). Using Line Scan Camera for Material Cutting, *Proceedings Vol. of the 1st WSEAS International Conference on Visualization, Imaging and Simulation, November 7-9, Bucharest*, ISSN 1790-2769, ISBN 978-960-474-022-2, WOS: 000264044900008
67. Anton, F.D., Borangiu, Th., Anton, S. (2007). An Implementation of High Availability in Networked Robotic Systems, *Proceedings Vol. of the 4th International Conference on Informatics in Control, Automation and Robotics – ICINCO'07 , May 9-12, Angers, France*, WOS: 000252643500020
68. Borangiu, Th., Anton, F.D., Anton, Silvia, Dogar Anamaria and S. Raileanu (2007). Knowledge-Based Holonic Robot Control of Job Shop Assembling, *Journal of Control Engineering and Applied Informatics-CEAI, Vol 8, No 4, p. 22-31, Bucharest*, ISSN 1454-8658
69. Ivanescu, N.A., Borangiu, Th., Brotac, S., Dogar, A. (2007). Implementation of Sequential Function Charts with Microcontrollers, *Proceedings Vol. of the 15th Mediterranean Conference on Control and Automation - MED'07, June 27-29, Athens, Greece*, ISBN: 978-1-4244-1281-5, DOI: 10.1109/MED.2007.4433852, IEEE Xplore Digital Library, INSPEC Accession Number: 9826115, WOS: 000257100800246
70. Anton Silvia, Borangiu, Th. and F.D. Anton (2007). Visual Planning Using 3D Reconstruction in Intelligent Assembly Lines, *Proceedings Vol. of the 9th International Conference on Modern Information Technology in the Innovation Processes of Industrial Enterprises” – MITIP'07, September, 6-7, Florence, Italy*, ISBN: 978-88-7544-107-4, https://publik.tuwien.ac.at/files/pub-mb_5649.pdf
71. Borangiu, Th., Manu, M., Anton. F.-D., Tunaru, S., Dogar, A. (2006). High-speed Robot Motion Control under Visual Guidance, *Proceedings Vol. of the 12th Int. Power Electronics and Motion Control Conference - EPE-PEMC'06, Portoroz, Slovenia, August 30 - September 1, IEEE Xplore Digital Library*, DOI: 10.1109/EPEPEMC.2006.4778452 , WOS: 000246286103029
72. Borangiu, Th., Anton, F.-D., Tunaru, S., Dogar, A. (2006). Holonic Control of a Multiple Robot-Vision System with Fault-Tolerant Communication, *Proceedings Vol. of the 3rd Int. Conf. on Informatics in Control, Automation and Robotics – ICINCO'06, August 1-5, Setubal, Portugal*, ISBN: 972-8865-60-0, <http://dblp.uni-trier.de/db/conf/icinco/icinco2006-ra.html>
73. Borangiu, Th., Ionescu, F., Manu, M. (2003). Visual Servoing in Robot Motion Control, *Proceedings Vol. of the 7th Multi-Conference on Systemics, Cybernetics and Informatics SCI'03, Orlando, Florida, USA, July 27-30*, ISBN: 9806560019 9789806560017, WOS: 000189126000068
74. Borangiu, Th., Ivanescu, N.-A., Manu, M. (2003). Modelling of Visual Servoing Tasks in Robotics, *Proceedings Vol. of the 9th Int. Conf. on Computer Aided Systems Theory EUROCAST 2003, Las Palmas de Gran Canaria, February 24-28*, ISBN: 978-3-540-20221-9 , DOI: 10.1007/b13239
75. Borangiu, Th. (2002). Visual Conveyor Tracking for "Pick-on-the-Fly" Robot Motion Control, *Proceedings Vol. of the 7th Int. Workshop on Advanced Motion Control AMC'02, July 2002, Maribor, Slovenia*, p. 131-136, DOI: 10.1109/AMC.2002.1026945, IEEE Xplore Digital Library, INSPEC Accession Number: 7445904, ISBN: 0-7803-7479-7, WOS: 000178152600062

76. Oltean, V.E., Borangiu, Th., Tomas Balibrea, L.M., Ivanescu, N.-A. (2001). Some Basic Problems Concerning a Class of Hybrid Control Systems, Proc. Vol. Formal Methods and Tools for Computer Science, EUROCAST 2001, Las Palmas de Gran Canaria, Feb. 18-21, p. 123-126, ISBN 84-699-3971-8
77. Borangiu, Th., Ionescu, F. (2001). Automated Visual Inspection of Ice-Cream Bars, Proc. of the KES'2001 Int. Conf., Osaka, Sept. 2001, p. 479-484, IOS Press, ISBN: 1586031929 , WOS: 000171608300052
78. Manu, M., Borangiu, Th., Roman, D. (2001). Monitoring Distributed Applications, Proc. of the 5th World Multi Conference on Systemics, Cybernetics and Informatics SCI'01, July 2001, Orlando, Florida, Vol. II Information Systems, p. 388-393

● **Articole în reviste în volume proceedings de conferințe (indexate BDI)**

1. Voinescu, I., Borangiu, Th. (2015). Optimizing and configuring a public transport service – component of the service system's information-based management (in Romanian), AGIR Bulletin "Research and Engineering Expertise", Bucharest, No. 4, October-December 2015, 86-96, ISSN-L1224-7928
2. Stocklosa, O., Borangiu, Th., Raileanu, S., Morariu, O., Morariu, C. (2015). Visual guidance of robots integrated in intelligent manufacturing, Scientific Bulletin of University Politehnica of Bucharest, Series C, no. 2 (2015), ISSN 1223-7027
3. Anton, F., Dragoicea, M., Borangiu, Th., Anton, S., Voinescu, I., Pop, F. (2015). Cloud-based services for on demand education, Proceedings of the 3rd International IBM Cloud Academy Conference ICACON'15, May 21-23, 2015, Budapest, http://www.ibm.com/solutions/education/cloudacademy/us/en/cloud_academy_conference_2015_4.html
4. Morariu, O., Borangiu, Th., Raileanu, S., Morariu, C. (2015). Virtualization of manufacturing execution system with smart private cloud, Proceedings of the 3rd International IBM Cloud Academy Conference ICACON'15, May 21-23, 2015, Budapest, http://www.ibm.com/solutions/education/cloudacademy/us/en/cloud_academy_conference_2015_4.html
5. Morariu, O., Morariu, Cristina, Borangiu, Th., Raileanu, S. (2015), Multicast dataset synchronization and agent negotiation in distributed manufacturing control systems, Proceedings of the 15th IFAC Symposium on Information Control Problems in Manufacturing, May 12-15, Ottawa, IFAC Papers Online, Vol. 48, issue 3, 1087-1092, Elsevier, http://www.sciencedirect.com/science?_ob=ArticleListURL&_method=list&_ArticleListID=-850207852&_sort=r&_st=13&_view=c&_md5=bc489779260c5e9ca5b7a0f670310749&_searchtype=a
http://ac.els-cdn.com/S240589631500467X/1-s2.0-S240589631500467X-main.pdf?_tid=a97662b2-56e2-11e5-baaa-0000aacb35e&_acdnat=1441796901_932a203df05a756c761d0ed630d85306
6. Radulescu, S., Borangiu, Th., Anton, F.D. (2014). Educational Services and Cloud Computing, *Scientific Bulletin of University Politehnica of Bucharest*, Series C, no.2 (2014), ISSN 1223-7027
7. Avram, S., Caragea, D., Borangiu, Th. (2014). NLP applications in external plagiarism detection, *Scientific Bulletin of University Politehnica of Bucharest*, Series C, no. 3 (2014), ISSN 1223-7027
8. Borangiu, Th., Marcu, T., Chenok, D., Kamenski, J.M., Keegan, M.J., Ben-Yehuda, G. (2014), Driving Change and Performance in the Public Sector, in Proceedings Volume of the RSMS International Conference on Challenges, Performances and Tendencies in the Organisation Management, June 22-24, 2014, Murighiol, Romania, Cambridge Press, UK
9. Raileanu, S., Borangiu, Th., Ivanescu, N.-A., Morariu, O. (2014). Integration of Mobile Agents in Distributed Manufacturing Control, in IEEE Proceedings vol. of the 18th Int. Conf. on System Theory, Control and Computing, ICSTCC'18, Sinaia, Romania, October 17-19, 2014, p. 145-150, IEEE Xplore Digital Library, DOI: 10.1109/ICSTCC.2014.6982406, http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=6982406&url=http%3A%2F%2Fieeexplore.ieee.org%2Fxppls%2Fabs_all.jsp%3Farnumber%3D6982406
10. Borangiu, Th., Ciocan, M., Raileanu, S. And O. Morariu (2014). Complex Surface Generation through Procedural Robot Motion, in IEEE Proceedings vol. of the 18th Int. Conf. on System Theory, Control and Computing, ICSTCC'18, Sinaia, Romania, October 17-19, 2014, p. 169-174, IEEE Xplore Digital Library, DOI: 10.1109/ICSTCC.2014.6982410, http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=6982410&url=http%3A%2F%2Fieeexplore.ieee.org%2Fxppls%2Fabs_all.jsp%3Farnumber%3D6982410
11. Borangiu, Th., Raileanu, S., Ivanescu, N.-A., Stocklosa, O. and O. Morariu (2014). Multitasking Robot-Vision for Supply Holon Execution in Intelligent Manufacturing, in IEEE Xplore Proceedings of the 23rd Int. Conf. on Robotics in Alpe-Adria-Danube Region RAAD'14, Smolenice, Slovakia, 3-5 September, 2014,

DOI: 978-1-4799-6797-1, ISBN 978-1-4799-6797-1,

[http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=7002227&filter%3DAND\(p_IS_Number%3A7002223\)](http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=7002227&filter%3DAND(p_IS_Number%3A7002223))

12. Morariu, Cristina, Morariu, O., and Th. Borangiu (2013). Offer Request Management in Service Oriented Holonic Manufacturing, Scientific Bulletin of University Politehnica of Bucharest, 2013, C Series, ISSN (print) : 1223-7027
13. Morariu, O., Morariu, C., Borangiu, Th. (2013). Adopting Virtualization Technologies in Robotized Manufacturing, Proceedings of the 22th Int. Workshop on Robotics in Alpe-Adria-Danube Region RAAD 2013, September 11-13, 2013, Porto Roz, Slovenia, ISBN 978-961-264-064-4
14. Dumitrache, A., Ivanescu, N-A., Borangiu, Th. (2013). Robot Sandbox: an Open Source Robot Simulator for Classroom Use, Proceedings of the 22th Int. Workshop on Robotics in Alpe-Adria-Danube Region RAAD 2013, September 11-13, 2013, Porto Roz, Slovenia, ISBN 978-961-264-064-4
15. Anton, F., Anton, S., Borangiu, Th. (2013). Human Robot Natural Interaction for Ambient Assisting Living, Proceedings of the International Workshop FISH Fostering Innovation in Healthcare Services, March 14-15, 2012, Brasov, p. 107-112, University Publishing House "Carol Davila", Bucharest 2013, ISBN 978-973-708-659-4
16. Morariu, C., Morariu, O., Borangiu, Th. (2013). Formalized Information Representation for Intelligent Products in Service-Oriented Manufacturing, Proceedings of the 11th IFAC Workshop on Intelligent Manufacturing Systems IMS'13, Sao Paulo, Brazil, 2013, Vol. 11, Part 1, p. 318-323, DOI: 10.3182/20130522-3-BR-4036.00017, ISBN: 978-3-902823-33-5, ISSN: 1474-6670
17. Carbone, G., Ceccarelli, M., Borangiu, Th. (2012). A Low-Cost Control Architecture for User-Oriented Service Applications of Cassino Parallel Manipulator, in Proceedings of 14th IFAC INCOM'12 Symposium, IFAC PapersOnLine, Vol. 14, Part 1, DOI: 10.3182 / 20120523 - RO - 2023.00337, ISSN 1474-6670, ISBN 978-3-902661-98-2
18. Borangiu, Th., Dragoicea, M. (2012). A Service Science Knowledge Environment in the Cloud, , in Proceedings of 14th IFAC INCOM'12 Symposium, IFAC PapersOnLine, Vol. 14, Part 1, DOI: 10.3182 / 20120523 - RO - 2023.00438, ISSN 1474-6670, ISBN 978-3-902661-98-2
19. Morariu, C., Morariu, O., Borangiu, Th. (2012). Cost-Analysis for Service-Oriented Holonic Manufacturing System Design, in Proceedings of 14th IFAC INCOM'12 Symposium, IFAC PapersOnLine, Vol. 14, Part 1, DOI: 10.3182 / 20120523 - RO - 2023.00268, ISSN 1474-6670, ISBN 978-3-902661-98-2,
20. Morariu, C., Morariu, O., Borangiu, Th. (2012). Customer Order Management in Service Oriented Holonic Manufacturing, in Proceedings of 14th IFAC INCOM'12 Symposium, IFAC PapersOnLine, Vol. 14, Part 1, DOI: 10.3182 / 20120523 - RO - 2023.00267, ISSN 1474-6670, ISBN 978-3-902661-98-2
21. Borangiu, Th., Raileanu, S., Trentesaux, D., Berger, T., Iacob, I. (2012). Distributed Manufacturing Control with Extended CNP Interaction on Intelligent Products, in Proceedings of 14th IFAC INCOM'12 Symposium, IFAC PapersOnLine, Vol. 14, Part 1, DOI: 10.3182 / 20120523 - RO - 2023.00415, ISSN 1474-6670, ISBN 978-3-902661-98-2,
22. Borangiu, Th., Stanculeanu, I. (2012). Enhanced RSSI Localization System for Asset Tracking Services Using Non Expensive IMU, in Proceedings of 14th IFAC INCOM'12 Symposium, IFAC PapersOnLine, Vol. 14, Part 1, DOI: 10.3182 / 20120523 - RO - 2023.00430, ISSN 1474-6670, ISBN 978-3-902661-98-2
23. Anton, F.D., Anton, S., Borangiu, Th. (2012). Human-Robot Natural Interaction and Collision Avoidance in Flexible Manufacturing Cells, in Proceedings of 14th IFAC INCOM'12 Symposium, IFAC Papers OnLine, Vol. 14, Part 1, DOI: 10.3182 / 20120523 - RO - 2023.00405, ISSN 1474-6670, ISBN 978-3-902661-98-2,
24. Morariu, C., Borangiu, Th. (2012). Manufacturing Integration Framework: A SOA Perspective on Manufacturing, in Proceedings of 14th IFAC INCOM'12 Symposium, IFAC PapersOnLine, Vol. 14, Part 1, DOI: 10.3182 / 20120523 - RO - 2023.00445, ISSN 1474-6670, ISBN 978-3-902661-98-2
25. Morariu, C., Morariu, O., Borangiu, Th. (2012). Manufacturing Service Bus Integration Model for Implementing Highly Flexible and Scalable Manufacturing Systems, in Proceedings of 14th IFAC INCOM'12 Symposium, PapersOnLine, Vol. 14, Part 1, DOI: 10.3182 / 20120523 - RO - 2023.00433, ISSN 1474-6670, ISBN 978-3-902661-98-2
26. Anton, F.D., Anton, S., Borangiu, Th., Stocklosa, O. (2012). Online Rapid Vision Integration for a Robotized China plates Manufacturing Line, in Proceedings of 14th IFAC INCOM'12 Symposium, IFAC PapersOnLine, Vol. 14, Part 1, DOI: 10.3182 / 20120523 - RO - 2023.00431, ISSN 1474-6670, ISBN 978-3-902661-98-2,

27. Borangiu, Th., Ceccarelli, M., Anton, F.D., Anton, S., Carbone, G., Stocklosa, O. (2012). Open Robot Control for Services in Construction, in Proceedings of 14th IFAC INCOM'12 Symposium, IFAC PapersOnLine, Vol. 14, Part 1, DOI: 10.3182 / 20120523 - RO - 2023.00341, ISSN 1474-6670, ISBN 978-3-902661-98-2,
28. Anton, F.D., Anton, Silvia and Th. Borangiu (2012). Educational Services in Cloud with IBM Technology: A New Model for Open, On Demand Learning in Higher education, in Proceedings Vol. of the 11th International Conference on Information Based Higher Education and Training ITHET'12, June 21-23 Istanbul, Turkey
29. Borangiu, Th., Ceccarelli, M., Anton, F.D., Anton, S., Raileanu, S. (2012). Visual Guidance based on Robot-Object Models, in Proceedings Vol. of the 21st International Workshop on Robotics in Alpe-Adria-Danube Region RAAD'12, September 10-13, Naples, Italy
30. Anton, F.D., Anton, S., Borangiu, Th. (2012). Gesture Recognition for Robot Assistance in Ambient Assisted Living Environments, , in Proceedings Vol. of the 21st International Workshop on Robotics in Alpe-Adria-Danube Region RAAD'12, September 10-13, Naples, Italy
31. Borangiu T., Răileanu S., Anton F., Tahon C., Berger T., Trentesaux, D. (2011). Product-driven manufacturing control with embedded decisional entities, IFAC Proceedings Vol. of the 18th World Congress of the International Federation of Automatic Control, Milano, Sept. 2011, IFAC PapersOnLine, Elsevier, p. 3986-3991
32. Dumitrache, A., Borangiu, Th. (2011). Collision and proximity avoidance for robust behaviour of real-time robot applications, In (Bertetto, A. Ed.) Int. Journal of Mechanics and Control JOMAC, Vol. 12, no.1, p. 125-132, Torino, ISSN 1590-8844
33. Borangiu T., Răileanu S., Anton F., Parlea M., Tahon C., Berger T., Trentesaux, D. (2011). Product-driven automation in a service oriented manufacturing cell, Proceedings Vol. of the Int. Conference on Industrial Engineering and Systems Management, E-Proceedings of IESM' 2011, p. 1392-1400, Metz, France, 25-27 May, ISBN 978-2-9600532-3-4
34. Dumitrache, A., Arroukb, K.A., Bouzgarrou, B-C., Borangiu, Th., Gogu, G. (2011). Kinematic Redundancy Optimization of Serial and Parallel Robot Trajectories for 3D Surface Generation, Proceedings Vol. of the 20th International Workshop on Robotics in Alpe-Adria-Danube Region RAAD'11, October 5-7, 2011, Brno, Czech Republic,
https://www.researchgate.net/publication/272827111_Kinematic_Redundancy_Optimization_of_Serial_and_Parallel_Robot_Trajectories_for_3D_Surface_Generation
35. Stanculeanu, I., Borangiu, Th. (2011). Real-Time Control Architecture for a Four Motor Rotorcraft (2011), Proceedings of the Int. Conference on Control Systems and Computer Science CSCS'11, Bucharest
36. Tudorie, C.R., Borangiu, Th. (2011). Production Planning and Scheduling in Manufacturing: A Survey, Proceedings Volume of the 18th International Conference on Control Systems and Computer Science CSCS'11, May 24-27, 2011, Bucharest
37. Dumitrache, A. and Th. Borangiu (2011). Open Source Framework for Real-Time Robot Simulation and Collision Avoidance, IFAC Proceedings Vol. of the 18th World Congress of the International Federation of Automatic Control, Milan, Sept. 2011, IFAC PapersOnLine, Elsevier, DOI: 10.3182/20110828-6-IT-1002.02796, <http://www.nt.ntnu.no/users/skoge/prost/proceedings/ifac11-proceedings/data/html/papers/2796.pdf>
38. Borangiu, Th., Anton, F.D., Anton, S. (2010). Open Architecture for Robot Controllers, Proceedings Vol. of the 19th IEEE International Workshop on Robotics in Alpe-Adria-Danube Region - RAAD'10, Budapest, Hungary, June 23-25, p. 181-186, ISBN: 978-1-4244-6884-3, IEEE Xplore Digital Library, INSPEC Accession Number: 11446960, DOI: 10.1109/RAAD.2010.5524587
39. Borangiu, Th., Raileanu, S., Trentesaux, D., Berger, T. (2010). Open Manufacturing Control with agile reconfiguring of robot services, Proceedings Vol. of the 19th IEEE International Workshop on Robotics in Alpe-Adria-Danube Region - RAAD'10, Budapest, Hungary, June 23-25, p. 37-42, ISBN: 978-1-4244-6884-3, IEEE Xplore Digital Library, INSPEC Accession Number: 11446986 , DOI: 10.1109/RAAD.2010.5524614, <http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=5512514>
40. Dumitrache, A., Borangiu, Th. (2010). Collision and proximity avoidance for robust behaviour of real-time robot applications, Proceedings Vol. of the 19th IEEE International Workshop on Robotics in Alpe-Adria-Danube Region - RAAD'10, Budapest, Hungary, June 23-25, ISBN: 978-1-4244-6885-0, DOI: 10.1109/RAAD.2010.5524577, IEEE Xplore Digital Library, INSPEC Accession Number: 11446950
41. Borangiu, Th., Raileanu, S., Trentesaux, D., Berger, T. (2010). Semi-heterarchical agile control architecture with intelligent product-driven scheduling, IFAC Proceedings of the 10th Int. Workshop on Intelligent Manufacturing Systems - IMS'10, Lisbon, Portugal, July 1-2, IFAC Publications, Elsevier,

https://www.researchgate.net/publication/266481409_Semi-heterarchical_agile_control_architecture_with_intelligent_product-driven_scheduling

42. Dumitrache, Al., Borangiu, Th., Dogar, A. (2010). Automatic Generation of Milling Toolpaths with Tool Engagement Control for Complex Part Geometry, IFAC Proceedings of the 10th Int. Workshop on Intelligent Manufacturing Systems - IMS'10, Lisbon, Portugal, July 1-2, IFAC Publications, Elsevier, https://www.researchgate.net/publication/265112744_Automatic_Generation_of_Milling_Toolpaths_with_Tool_Engagement_Control_for_Complex_Part_Geometry
43. Borangiu, Th., Curaj, A., Dogar, A. (2010). Fostering Innovation in Services through Open Education and Advanced IT, Proceedings Vol. of the IEEE International Joint Conferences on Computational Cybernetics and Technical Informatics ICC-CONTI'10, Timisoara, May 27-29, ISBN: 978-1-4244-7432-5, DOI: 10.1109/ICCCYB.2010.5491232, IEEE Xplore Digital Library, INSPEC Accession Number: 11375739
44. Borangiu, Th., Raileanu, S., Rosu, A., Parlea, M., Anton, F.D. (2009). Management of changes in a holonic manufacturing system with dual-horizon dynamic rescheduling of production orders, Proceedings Vol. of the 13th IFAC Symposium on Information Control Problems in Manufacturing- INCOM, Moscow, June 3-5, IFAC Publications, Elsevier, DOI: 10.3182/20090603-3-RU-2001.0139
45. Borangiu, Th., Anamaria Dogar, Dumitrache, A. (2009). A Heuristic Approach for Constrained Real Time Motion Planning of a Redundant 7-DOF Mechanism for 3D Laser Scanning, Proceedings Vol. of the 13th IFAC Symposium on Information Control Problems in Manufacturing - INCOM'13, Moscow, June 3-5, IFAC Proceedings Volume 42, Issue 4, 2009, p. 624–629, Elsevier, <http://dx.doi.org/10.3182/20090603-3-RU-2001.0139>, <http://www.sciencedirect.com/science/article/pii/S1474667016338642?np=y>
46. Anton, F.D., Borangiu, Th., Anton, S. (2009). Rapid Deployment Automation using RV Equipment, Proceedings Vol. of the 18th Int. Workshop on Robotics in Alpe-Adria-Danube Region - RAAD'09, Brasov, May 25-27, p. 91, ISBN 978-606-521-315-9, ISSN 2066-4745
47. Anton, F.D., Borangiu, Th., Anton, S. (2009). Rapid Deployment Automation using RV Equipment, Journal for Fluid Power, Automation and Mechatronics - Ventil, Ljubljana, Slovenia, ISSN: 1318 – 7279
48. Borangiu, Th., Dogar, A., Anton, F.D. (2009). IBM Green Solutions for Automotive Industry, Proceedings Vol. of the 18th International Workshop on Robotics in Alpe-Adria-Danube Region - RAAD'09, Brasov, May 25-27, ISBN 978-606-521-315-9, p. 111, ISSN 2066-4745
49. Borangiu, Th., Sevenco, D., Dogar, A. (2009). IBM SOA: Integrating Advanced IT in Networked Enterprise Control. Research and Education Solutions, Proceedings Vol. of the 18th Int. Workshop on Robotics in Alpe-Adria-Danube Region - RAAD'09, Brasov, May 25-27, ISBN 978-606-521-315-9, p. 143, ISSN 2066-4745
50. Borangiu, Th., Dumitrache, A., Dogar, A. (2009). Calibration of Wrist-Mounted Profile Laser Scanning Probe using a Tool Transformation Approach, Proceedings Vol. of the 18th International Workshop on Robotics in Alpe-Adria-Danube Region - RAAD'09, Brasov, May 25-27, ISBN 978-606-521-315-9, p. 59, ISSN 2066-4745
51. Raileanu, S., Berger, Th., Sallez, Y., Borangiu, Th., Trentesaux, D. (2009). The Open-Control Concept in a Holonic Manufacturing System, Proceedings Vol. of the 18th International Workshop on Robotics in Alpe-Adria-Danube Region - RAAD'09, Brasov, May 25-27, ISBN 978-606-521-315-9, p. 91, ISSN 2066-4745
52. Borangiu, Th., Ivanescu, N.A., Rosu, A., Parlea, M. (2009). A PLC-Based Implementing Framework for Order Holon Execution in HMES, Proceedings Vol. of the 18th International Workshop on Robotics in Alpe-Adria-Danube Region - RAAD'09, Brasov, May 25-27, ISBN 978-606-521-315-9, p. 84, ISSN 2066-4745
53. Borangiu, Th., Dumitrache, A., Dogar, A. (2009). Flexible 3D Trajectory Teaching and Following for Various Robotic Applications, IFAC Proceedings Vol. of the 9th IFAC Symposium on Robot Control - SYROCO'09, Gifu, Japan, Sept. 9-12, IFAC Publications, Elsevier, ISBN:9781617825583 [1617825581] , https://www.researchgate.net/publication/266177896_Flexible_3D_Trajectory_Teaching_and_Following_for_Various_Robotic_Applications
54. Raileanu, S., Sallez, Y., Berger, T, Borangiu, Th., Trentesaux, D. (2009). Holonic Implementation of the Open Control Paradigm, Proceedings Vol. of the Int. Conference on Industrial Engineering and Systems Management IESM'9, Montreal, May 13-15, ISBN 978-2-9600532-2-7
55. Borangiu, Th. (2008). Trends in Service Oriented Architectures for Robot-CNC Manufacturing Control, in Vol.59 " Problems of Engineering Cybernetics and Robotics", Bulgarian Academy of Sciences, Sofia, ISSN 0204-9848, <http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.538.2806>

56. Ivanescu, N.A., Brotac, S., Borangiu, Th. and A. Rosu (2008). Modernizing a Fodder Plant, Proceedings Vol. of IEEE SMC International Conference on Distributed Human-Machine Systems – DHMS'08, March 9-12, Athens, ISBN: 978-80-01-04027-0
57. Borangiu, Th., Dogar, A., Dumitrache, A. (2008). Modelling and Simulation of Short Range 3D Triangulation-Based Laser Scanning System, Proceedings Vol. of the International Conf. ICCCC'08, May 15-17, Oradea, Romania, p.190-195, E-ISSN 1841-9844,
58. Borangiu, Th., Dogar, A., Dumitrache, A. (2008). Modelling and Simulation of Short Range 3D Triangulation-Based Laser Scanning System, Proceedings Vol. of the International Conf. ICCCC'08, May 15-17, Oradea, Romania, p.190-195, E-ISSN 1841-9844
59. Borangiu, Th., Anton, S., Anton, F.D. (2008). High Availability in Networked Robotic Systems with Holonic Control, Proceedings Vol. of the 9th International Carpathian Control Conference ICC'08, May 25-28, 2008, Sinaia, Romania, p. 73-76, ISBN 978-9730746-897
60. Borangiu, Th., Sevcenco, D., Dogar, A. (2008). IBM Rational Unified Platform for Education and Research in Application Lifecycle Management and Manufacturing Control, Proceedings Vol. of the 9th International Carpathian Control Conference ICC'08, May 25-28, 2008, Sinaia, Romania, p. 63-72, ISBN 978-9730746-897
61. Popescu, D., Ivanescu, M., Poboroniuc, M., Ciprian, S., Borangiu, Th., Anton, F.D., Anton, S., Popescu, N., Popescu, De (2008). A Shared Resources Network, Proceedings Vol. of the 19th EAEEIE Conference, June 29 – July 2, 2008, Tallinn, Estonia, p. 31-36, ISBN: 9781424420087, ISSN 978-1-4244-2009-4,
62. Anton, F.D., Borangiu, Th., Anton, S. (2008). An Implementation of High Availability in Networked Robotic Systems, IFAC Proceedings Vol. of the 17th IFAC World Congress, 6-11 July, 2008, Seoul, Korea, p.10403-10408, Elsevier, ISBN 978-1-1234-7890-2, DOI: 10.3182/20080706-5-KR-1001.01763
63. Borangiu, Th., Dogar, A.S., Dumitrache, A. (2008). Implementation Issues Regarding a 3D Robot – based Laser Scanning System, Proceedings Vol. of the Int. Conf. CONTROLO'08, July 21-23, 2008, Utad Vila Real, Portugal, ISBN 978-972-669-878-4
64. Borangiu, Th., Ivanescu, N.A., Raileanu, S., Rosu, A., Anton, F.D., Anton, S., Dogar, A., Dumitrache, A. (2008). Holonic Manufacturing Control with Robot-Vision Part Supply, Proceedings Vol. of the National Conf. "Excellence Research – A Way to Innovation", July 27-29, Brasov, Romania, p. 146-1 – 146-6, ISSN 1844-7090
65. Borangiu, Th., Dogar, A., Dumitrache, A. (2008). Integrating a Short Range Laser Probe with a 6-DOF Vertical Robot Arm and a Rotary Table, Proceedings Vol. of the 17th Int. Workshop Robotics in Alpe-Adria-Danube Region RAAD'08, September 15-17, Ancona, Italy, p. 14-19, ISBN 978-88-903709-0-8
66. Borangiu, Th., Ivanescu, N.A., Raileanu, S., Rosu, A. (2008). Vision-Guided Part Feeding in a Holonic Manufacturing System with Networked Robots, Proceedings Vol. of the 17th International Workshop on Robotics in Alpe-Adria-Danube Region RAAD'08, September 15-17, 2008, Ancona, Italy, p. 97-102, ISBN 978-88-903709-0-8
67. Borangiu, Th., Dogar, A., Dumitrache, A. (2008). Generation of Adaptive Robot Scanning Paths for 3D Surface Reconstruction, Proceedings Vol. of the 4th Int. Robotics Conference – ROBOTICA '08, November 13-14, 2008, Brasov, Bulletin of the Transilvania University of Braşov, Vol. 15(50), Series A, p. 267-273, ISSN 1223-9631
68. Borangiu, Th., Anton, F.D., Anton, S. (2008). Embedded Control and Simulation of a Construction Robot, Proceedings Vol. of the 4th International Robotics Conference – ROBOTICA '08, November 13-14, 2008, Brasov, Bulletin of the Transilvania University of Brasov, Vol. 15(50), Series A, p. 259-266, ISSN 1223-9631
69. Borangiu, Th. (2008). Trends in Robot Vision for Service Oriented Manufacturing, Plenary Paper in Proceedings Vol. of the 4th International Robotics Conference – ROBOTICA '08, November 13-14, 2008, Brasov, Bulletin of the Transilvania Univ. of Brasov, Vol. 15(50), Series A, Special issue, p. 33-56, ISSN 1223-9631
70. Borangiu, Th., S. Raileanu, Anton, F.D. (2008). Holonic Manufacturing Control with Robot Vision Part Supply, Romanian J. of Innovation, No. 1, Year 1, p. 41-44, December 2008, AMCSIT Bucharest, ISSN 1844-8356
71. Borangiu, Th., Tomas Balibrea, L.M., Anton, F.D., Ivanescu, N., Tunaru, S., Dogar, A., Raileanu, S. (2007). Holonic Fault-Tolerant Control of Networked Robot-Vision Assembly Stations, Proceedings of the IFAC Workshop on Intelligent Assembly and Disassembly - IAD'07, May 23-25, Alicante, Spain, IFAC Publications, Elsevier, DOI: 10.3182/20070523-3-ES-4907.00008

72. Borangiu, Th., Dogar, A., Dumitrache, A. (2007). Automatic Generation of 3D Machining Surfaces with Tool Compensation from Grey Level Image Models, Proceedings Vol. of the IFAC Workshop on Intelligent Manufacturing Systems - IMS'07, May 23-25, Alicante, Spain, IFAC Publications, Elsevier, https://www.researchgate.net/publication/288785366_Automatic_generation_of_3D_machining_surfaces_with_tool_compensation_from_graylevel_image_models
73. Borangiu, Th., Anton, F.D., Ivanescu, N.-A., Tunaru, S., Dogar, A. (2007). Intelligent Job Shop Assembling with Holonic Robot Control, Proceedings Vol. of the 16th International Conference on Control Systems and Computer Science – CSCS16, 22-25 May, Bucharest
74. Borangiu, Th., Anton, F.D., Anton S., Dogar, A., Ivanescu, N.-A., Raileanu, S., Bruja, A. (2007). Embedded Control of a Bricklaying Robot from CAD Production Data, Proceedings Vol. of the 16th International Workshop Robotics in Alpe-Adria-Danube Region - RAAD 2007, June 7-9, Ljubljana, Slovenia, ISBN 978-961-243-067-2
75. Borangiu, Th., Ivanescu, N., Dogar, A., Dumitrache, A., Rosu, A. (2007). Continuous Path Following with Applications in Different Robotic Tasks, Proceedings Vol. of the 16th International Workshop Robotics in Alpe-Adria-Danube Region - RAAD'07, June 7-9, Ljubljana, Slovenia, ISBN 978-961-243-067-2
76. Bruja, A., Dima, M., Francu, C., Borangiu, Th. (2007). Designing and working simulation of the mechanisms of the mobile robot for construction, Proceedings Vol. of the 16th International Workshop Robotics in Alpe-Adria-Danube Region - RAAD'07, June 7-9, Ljubljana, Slovenia, ISBN 978-961-243-067-2
77. Bruja, A., Dima, M., Francu, C., Borangiu, Th. (2007). Robot mechanism for 3D retrieval of buildings decorative elements and working simulation, Proceedings Vol. of the 16th International Workshop Robotics in Alpe-Adria-Danube Region - RAAD'07, June 7-9, Ljubljana, Slovenia, ISBN 978-961-243-067-2
78. Anton, F.D., Borangiu, Th., Anton, S. (2007). Advanced Web Interface for Remote Controlling a Robotized Flexible Workcell, Proceedings Vol. of the 4th IFAC Workshop on Management and Control of Production and Logistics – MCPL'07, September, 27-30, Sibiu, Romania, IFAC Publications, Elsevier, DOI: 10.3182/20070927-4-RO-3905.00046
79. Borangiu, Th., Anton, F.D., Anton, S. (2007), Remote Robot Vision Learning and Control in Flexible Manufacturing Cells, Proceedings of the 4th IFAC Workshop on Management and Control of Production and Logistics – MCPL'07, September, 27-30, Sibiu, Romania, IFAC Publications, Elsevier, DOI: 10.3182/20070927-4-RO-3905.00037
80. Anton, F.D., Borangiu, Th., Anton S., Condruz, A. (2007). Remote Control of a Robotized Flexible Workcell Using a Web Interface, Proceedings Vol. of SINTES 13 - The International Symposium on System Theory, Automation, Robotics, Computers, Informatics, Electronics and Instrumentation, October, 18-20, Craiova, Romania, <https://www.scribd.com/document/19643741/SINTES-pdf>
81. Borangiu, Th., Anton, F.-D., Tunaru, S., Dogar, A., Ivanescu, N.-A. (2006). Interactive Teaching in Flexible Manufacturing by Remote Robot Vision Learning and Control, Proceedings Vol. of the 17th EAEEIE Conference, Craiova, Romania, June 1-3
82. Borangiu Th., Anton, F.D., Tunaru, S., Dogar, A., Ivanescu, N.-A. (2006). Interactive Learning of Scene-Robot Models Based on AI Techniques, Proceedings of the 12th IFAC Symposium on Information Control Problems in Manufacturing - INCOM'06, May 17-19, Saint-Etienne, France, IFAC Publications, Elsevier Ltd., ISBN 978-0-08-044654-7, DOI: 10.3182/20060517-3-FR-2903.00120
83. Anton F.D., Borangiu Th., Tunaru, S., Dogar, A., Gheorghiu, S. (2006). Remote Monitoring and Control of a Robotized Fault Tolerant Workcell, Proceedings Vol. of the 12th IFAC Symposium on Information Control Problems in Manufacturing INCOM'06, May 17-19, Saint-Etienne, France, IFAC Proceedings Volume 39, Issue 3, p. 229-234, Elsevier Ltd., ISBN 978-0-08-044654-7, DOI: 10.1016/B978-008044654-7/50172-2
84. Borangiu Th., Anton F.D., Tunaru, S., Dogar, A. (2006). A Holonic Fault Tolerant Manufacturing Platform With Multiple Robots, Proceedings of the 3rd International Conference on Informatics in Control, Automation and Robotics, Robotics and Automation ICINCO'06, Setúbal, Portugal, August 1-5, https://www.researchgate.net/publication/221645011_A_Holonic_Fault_Tolerant_Manufacturing_Platform_With_Multiple_Robots , DOI: 10.1.1.121.6800
85. Borangiu Th., Anton F.D., Tunaru, S., Dogar, A., Ivanescu, N.-A. (2006). Robot-Vision Based Part Conditioning for Flexible Feeding Devices, Proceedings Vol. of the 1st Int. Conference on Optimization of the Robots and Manipulators – OPTIROB'06, May 26-28, Predeal, Romania, ISBN: 978-973-648-572-5
86. Borangiu Th., Dogar, A., Tunaru, S., Anton F.D., Ivanescu, N.-A. (2006). Vision Guided Robotic Grasp Learning Procedure, Proceedings Vol. of the 1st International Conference on Optimization of the Robots and Manipulators – OPTIROB'06, May 26-28, Predeal, Romania, ISBN: 978-973-648-572-5

87. Borangiu, Th., Anton, F.D., Tunaru, S., Ivanescu, N.-A. (2005). Obstacle Avoidance in Vision Guidance of Robots, Proceedings Vol. of the IFAC World Congress, July 2005, Prague, Czech Rep, IFAC Publications, Elsevier, ISBN: 008045108X 9780080451084
88. Borangiu, Th. (2005). Guidance Vision for Robots and Part Inspection: Proceedings Volume of the 14th Int. Conf. Robotics in Alpe-Adria-Danube Region RAAD'05 (Plenary Paper), Bucharest, May 26-28, p. 27-54, ISBN 973-718-241-3
89. Borangiu, Th., Anton, F.D., Tunaru, S., Dogar, A., Ivanescu, N.-A., Manu, M. (2005). High speed real-time robot vision design for flexible part feeding, Proceedings Vol. of the 14th Int. Conf. on Robotics in Alpe-Adria-Danube Region RAAD'05, Bucharest, May 26-28, p. 337-345, ISBN 973-718-241-3
90. Borangiu, Th., Anton, F.D., Dogar, A., Tunaru, S. (2005). Interactive visual-based learning of grasping model, Proceedings Vol. of the 14th Int. Conf. Robotics in Alpe-Adria-Danube Region RAAD'05, Bucharest, May 26-28, p. 357-362, ISBN 973-718-241-3
91. Borangiu, Th., Anton, F.D., Tunaru, S., Dogar, A. (2005). Object recognition method using a network oriented skeleton computation, Proceedings Vol. of the 14th Int. Conf. on Robotics in Alpe-Adria-Danube Region RAAD'05, Bucharest, May 26-28, p. 531-536, ISBN 973-718-241-3
92. Borangiu, Th., Stefanoiu, D. (2005). Rowobo-An algorithm of robot workspace boundaries drawing, Proceedings Vol. of the 14th Int. Conf. Robotics in Alpe-Adria-Danube Region RAAD'05, Bucharest, May 26-28, p. 544-549, ISBN 973-718-241-3
93. Borangiu, Th., Anton, F.D., Tunaru, S., Dogar, A., Manu, M. (2005). High speed, multitasking visual robot guidance, Proceedings Vol. of the 15th Int. Conf. on Control Systems and Computer Science CSCS'15, Bucharest, May 26-28, p. 337-345
94. Borangiu, Th., Anton, F.D., Tunaru, S., Manu, M. (2005). Internet-based messaging and team workplace software for remote robot control, Proceedings Vol. of the 18th International Conference on Production Research, Salerno, Italy, July 31-August 4, p. 122-127, ISBN 88-87030-96-0
95. Stefanoiu, D., Borangiu, Th., Ionescu, F. (2004), Generating Planar Workspace Boundaries by Radius Parsimonious Increase, Proceedings Volume from the IFAC Workshop IAD'03, Bucharest, October 9-11, p. 73-78, IFAC Publications, Elsevier Ltd, ISBN: 0080440657 9780080440651
96. Borangiu, Th., Barad, S., Ivanescu, N.-A. (2004). Robotized Flange Assembling with Line Scan Camera Control, Proceedings Volume from the IFAC Workshop IAD'03, Bucharest, October 9-11, p. 119-124, IFAC Publications, Elsevier Ltd, ISBN: 0080440657 9780080440651
97. Borangiu, Th., Ivanescu, N.-A., Barad, S. (2004). Robotized Flange Assembling with LSC Control, VENTIL, Revija za Fluidno Tehniko in Avtomatizacijo, Marec, 10/2004/1, p. 14-19, Ljubljana, ISSN 1318-7279
98. Borangiu, Th., Anton, F.D. (2004). Visual Servoing in Robot Motion Control, Control Engineering and Applied Informatics (CEAI) Revue, Vol. 6, No. 1, p. 61-66, Published by the Romanian Society of Control Engineering and Technical Informatics, Bucharest
99. Borangiu, Th., Anton, F.D. Ivanescu, N.-A., Tunaru, S. (2004). Adding fingerprint models for collision-free grasping in robotic tasks, Proceedings Vol. of the 13th Int. Conf. on Robotics in Alpe-Adria-Danube Region RAAD'04, June 2-5, Brno, Czech Rep.
100. Borangiu, Th., Ivanescu, N.-A. (2003). Modelling Conveyor Belts for Visual Robot-Object Tracking, Proceedings Vol. of the 7th IFAC Symposium on Robot Control SYROCO'03, Wroclaw, Sept. 1-3, IFAC Publications, Elsevier, ISBN: 0080440096 9780080440095
101. Borangiu, Th. (2003). Optimal material processing with SCARA robots based on LSC image processing, Proceedings Vol. of the 7th IFAC Workshop on Intelligent Manufacturing Systems IMS'03, Budapest, Hungary, April 6-8, IFAC Publications, Elsevier, ISBN: 0080442897 9780080442891
102. Borangiu, Th., Ivanescu, N.-A. (2003). Visual Servo Architectures for Rigid Robots, Proceedings Vol. of the 12th Int. Workshop on Robotics in Alpe-Adria-Danube Region RAAD'03, Cassino, May 7-10
103. Borangiu, Th., Ionescu, F., Ivanescu, N.-A., Naghi, A., Manu, M. (2003). Multitasking Tracking of Conveyors as Single Axis Robots, Proceedings Vol. of the 12th Int. Workshop on Robotics in Alpe-Adria-Danube Region RAAD'03, Cassino, May 7-10
104. Manu, M., Borangiu, Th. (2003). Performance in Distributed Systems, Proceedings Vol. of the IEEE Int. Multi-Conference on Computational Engineering in Systems Applications CESA'03, Lille, July 9-11
105. Borangiu, Th., Barad, S., Ivanescu, N.-A. (2003). Robotized Flange Assembling with Line Scan Camera Control, Proceedings Vol. of the IFAC Int. Workshop Intelligent Assembly and Disassembly IAD'03, Bucharest, October 9-11, IFAC Publications, Elsevier, ISBN: 0080440657 9780080440651

- 106.Stefanoiu, D., Borangiu, Th., Ionescu, F. (2003). Generating Planar Workspace Boundaries by Radius Parsimonious Increase, Proceedings Vol. of the IFAC Int. Workshop Intelligent Assembly and Disassembly IAD'03, Bucharest, October 9-11, p. 90-96, IFAC Publications, Elsevier, ISBN: 0080440657 9780080440651
- 107.Borangiu, Th., Ionescu, F., Ivanescu, N.-A., Naghi, A., Manu, M. (2003). Multitasking Tracking of Conveyors as Single Axis Robots, International Journal of Mechanics and Control (JOMAC), Vol. 04, No. 2, p. 63-68, Torino, ISSN 1590-8844
- 108.Borangiu, Th., Ivanescu, N.A., Brotac, S. (2002). An Analytical Method for Visual Robot-Object Calibration, Proceedings Vol. of the 11th Int. Workshop on Robotics in Alpe-Adria-Danube Region RAAD'02, June 2002, Balatonfüred, Hungary, p. 59-64, ISBN: 63 7154 09 4,
- 109.Borangiu, Th. (2002). Feature-Based Object Modelling in Robotics, Proceedings Vol. of the 11th Int. Workshop on Robotics in Alpe-Adria-Danube Region, June'02, Balatonfüred, Hungary, p. 123-128, ISBN: 63 7154 09 4, http://webuser.unicas.it/cigola/articoli/02_RAAD.pdf
- 110.Manu, M., Borangiu, Th., Roman, D. (2002). WMI-based Performance Analysis for Distributed Systems, Proceedings Vol. of the 15th IFAC World Congress B'02, Barcelona, July 2002, p. 1129-1134, IFAC Publications, Elsevier, ISBN: 008044220X 9780080442204
- 111.Borangiu, Th., Dupas, M. (2001). Feature-Based Modelling in Robot Vision Tasks, Proc. of the Int. Conference on Feature Modeling and Advanced Design-For-The-Life-Cycle Systems FEATS 2001, Valenciennes, France, June 2001
- 112.Borangiu, Th., Ionescu, F. (2001). A Reconfigurable Fault-Tolerant Communication System for Intelligent Manufacturing Control, Proc. of the 6th Workshop on Intelligent Manufacturing Systems IMS 2001, Poznan, April, p. 35-40, Elsevier Science, ISBN 0 08 043862 8
- 113.Borangiu, Th., Tomas Balibrea, L.M. (2001). Machine Vision for Intelligent Manufacturing, Proc. of the 6th Workshop on Intelligent Manufacturing Systems IMS 2001, Poznan, April 2001, p.28-34, Elsevier Science, ISBN 0 08 043862 8
- 114.Borangiu, Th. Manu, M., Ivanescu, N.-A. (2001). Manufacturing and Control of Printed Circuit Boards Using Robot Vision Systems, Proc. of the 10th Int. Workshop on Robotics in Alpe-Adria-Danube Region RAAD 2001, Vienna, May 2001, p. 431-437
- 115.Ivanescu, N., Borangiu, Th., Brotac, S. (2001). A Distributed and Configurable Architecture for Controlling Industrial Processes, Proc. of the 10th IFAC Sympos. on Information Control Problems in Manufacturing INCOM'01, Vienna, Sept. 2001, p. 177-182, ISBN: 0080432468 9780080432465
- 116.Borangiu, Th. (2001), Reactive Control Architecture for Mobile Robots, Proc. of the 2nd National Workshop on Mobile Robots, Craiova, October 2001, p. 47-52
- 117.Borangiu, Th., Oltean, V.E., Manu, M. (2001). Collision-Free Grasping in Robot Vision Assembly, Proc. of the IFAC Workshop Intelligent Assembly and Disassembly IAD'01, Gramado, Brazil, p.221-226, ISBN: 008043908X 9780080439082
- 118.Borangiu, Th., Oltean, V.E. (2000). Robot Vision Tools for Real-Time Inspecting of Ice Cream Bars, Proc. of the 9th Int. Workshop on Robotics in Alpe-Adria-Danube Region - RAAD'2000, Maribor, June 2000, p.349-354, ISBN 86-435-0324-X
- 119.Borangiu, Th., Ivanescu, N.-A. (2000). Automated Visual Inspection of ICs in Robotised PCB Assembling, Proc. of the 9th Int. Workshop on Robotics in Alpe-Adria-Danube Region - RAAD'2000, Maribor, June 2000, p. 355-360, ISBN 86-435-0324-X
- 120.Borangiu, Th., Ivanescu, N.-A. (2000). Intelligent Control Station for a Robot-Tended Adaptive Machine Tool, Proc. of the 6th IFAC Sympos. Robot Control SYROCO 2000, Vienna, Sept. 21-23, 2000, p. 223-228, IFAC Publications, Elsevier, ISBN: 978-0080435619
- 121.Borangiu, Th., Ivanescu, N.-A. (2000). Structuration of Merged Robot Vision and Automated Visual Inspection Tasks Based on Rulers and Finders, Proc. of the IFAC Symposium SYROCO'2000, Vienna, September 21-23, p. 151-156, IFAC Publications, Elsevier, ISBN: 978-0080435619

Lista granturilor și contractelor de cercetare (2000-2016)

● Internaționale

1. Big Data, Analytics and Cloud for Digital Transformation on Manufacturing (DTM), IBM Faculty Awards National IBM Research Grant 2016, project coordinator

2. Migration in IBM Cloud of the Service System Modelling and Validation Platform (CloudSSyst), Research Grant IBM, 2014, project coordinator
3. Business Analytics for the Digital Enterprise with IBM Technologies (BA4DigEn), Research Grant IBM, 2014, project coordinator
4. IBM ILOG-based Business Intelligence Infrastructure and Competence Network (ILOG_BI4MES), Research Grant IBM, 2013, project coordinator
5. Empowering Romanian Research on Intelligent Information Technologies (ERRIC), EU grant FP7, REGPOT-2010-1, 2011-2013, Task force WP coordinator
6. Action en Région de Coopération Universitaire et Scientifique (ARCUS) - Transports Urbains et Périurbains, Grant Région Nord Pas de Calais, France, 2006-2007, scientific coordinator partner UPB
7. Gestion informatisée des flous de transport, Project ARCUS, Grant bilateral RO- FR (Nord Pas de Calais) 2006-2008, scientific coordinator partner UPB
8. Feature-based modelling and control of a robot vision system integrated in flexible manufacturing, Grant MERCATOR al Deutsche Forschungsgemeinschaft (DFG), 2002-2003, scientific director of the project
9. Master and Doctorate Program: Intelligent Robot Control and CIM Integration, Grant CNCSIS D174 World Bank, Round 4, 2000-2002, project director

● **Nationale**

1. Strategic program promoting innovation in services through open, continuous education, (INSEED), contract POSDRU/86/1.2/S/57748, MECTI, 2010-2013, project director
2. Multi-agent manufacturing execution system development and total enterprise integration, Exploratory workshops program, contract PN-II-ID-WE-2012-4-025, UEFISCDI, 2012, project director
3. Strategic R&D program fostering innovation and growth in the service domain, R&D grant ANCS, contract. no. 207 CP/II/2010, ANCS, 2010-2011, project director
4. Inter-regional and transnational doctoral excellence program in the domains "Computers and Information Technology" and "System Engineering" for a knowledge-based economy (CATIIS), Structural Funds EU Project, Axis 1, DMI 1.5, 2010-2012, WP coordinator
5. Autonomous, intelligent robot-vision platforms for product qualification, sorting / processing / packing and quality inspection with holonic, service-oriented, feature-based control architecture (SOFHICOR), R&D grant PN II Program 4 Parteneriat, Contract CNMP, no. 11-042/2007, ANCS, 2007-2010, project director
6. Autonomous, self-learning adaptive control robot – CNC system integrated in a service-oriented architecture for object recovery from depth map images, R&D grant PN II Program IDEI, Contract no. 69/2007, PN II, contract CNCSIS 929, 2007-2010, project director
7. Advanced control platform and new information technologies CANTI, R&D grant MECI, 2006-2008 , Laboratory coordinator
8. Holonic manufacturing control platform with multiple robots and artificial vision for material conditioning (RVHOLON), R&D grant CEEX PN II, contract nr. 42/2006, ANCS, 2006-2008, project director
9. 7-d.o.f. universal mobile robot for constructions (RMUC 7), R&D grant CEEX MI, contract no. 11/2005, ANCS, 2005-2008, project director partner UPB
10. Modelling, design, and object-oriented implementing of adaptive control of multi-robot material conditioning systems, using the holonic manufacturing concept, R&D grant IDEI, CNCSIS, 2006-2008 , project director
11. Virtual, intelligent, high-risk manufacturing processes in the machine building industry for vulnerability reduction and prevention of the consequences of industrial accidents, R&D grant CEEX MI-VIPROHARD, Contract no. 96/ 2006, ANCS, 2006-2008, project director partner UPB
12. Sharing learning and research resources (PRIC), R&D grant CEEX, contract no. 24/2005, ANCS, 2005-2008, project director partner UPB
13. Artificial vision-based device and robotic equipment identifying, locating and on line automatic inspecting products in quality control, sorting and in-line assembly, R&D grant RELANSIN, Contract MECI, 2004-2006, project director
14. Intelligent robot motion control system based on feedback of features extracted from images, for interphasic traceability of mechanical components, R&D grant CNCSIS, 2003-2005, project director

15. Reactive control procedure for mobile robots in unstructured working environments, R&D grant of the Romanian Academy, 2001-2003, project director
16. Visual inspection system with multiple linear cameras for integrated quality control and optimization of material processing in moving scenes, R&D contract 535 MECI, Program RELANSIN, 2000-2002, project director
17. Nonlinear Multivariable Control Algorithms and Implementation Techniques for Rigid Manipulators, R&D grant 32/1998 of the Romanian Academy, 1998-2000, project director

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