

Monographs and book chapters published in 2016

B1. Monographs and book chapters in international publishing houses

Authors in the doctorate domain System Engineering

Neculai Andrei and Ph.D. students

1. Andrei, N. (2016). Book chapter: A new adaptive conjugate gradient algorithm for large-scale unconstrained optimization, in Boris Goldengorin (Ed.) Springer series Optimization and its Applications in Control and Data Sciences, Vol. 115, p 1-16, Springer, DOI 10.1007/978-3-319-42056-1_1, ISBN: 978-3-319-42054-7

Theodor Borangiu and Ph.D. students

2. 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>
3. 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
4. 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
5. Borangiu, Th., Ed. (2016). Advances in Robot Design and Intelligent Control, Springer Series Advances in Intelligent Systems and Computing, no. 371, ISBN 978-3-319-21289-0, DOI: 10.1007/978-3-319-21290-6, Springer Int. Publish. AG Switzerland
6. Trentesaux, D., Borangiu, Th., Thomas, A. (2016). (Eds). Emerging ICT concepts for smart, safe and sustainable industrial systems, Special Issue of J. Computers in Industry, Vol. 81 (2016), p. 1-170, Elsevier, <http://www.sciencedirect.com/science/journal/01663615/81>

Radu Dobrescu and Ph.D. students

7. R. Dobrescu, F. Ionescu (2016). Large scale networks. Modeling and Simulation, CRC Press (Taylor and Francis Group), 2016
8. Gh. Florea, R. Dobrescu, O. Chenaru, M. Eremia, L. Toma (2016). Methodology and Framework for Development of Smart Grid Control, in Th. Borangiu, A. Thomas and D. Trentesaux, Eds., Springer book series "Studies in Computational Intelligence 640", volume Service Orientation in Holonic and Multi-Agent Manufacturing, p.319-327, Springer Verlag, 2016 (eBook)
9. G. Stamatescu, D. Popescu, R. Dobrescu (2016). Framework for Cognitive Radio Deployment in Large Scale WSN-UAV Surveillance, Book Chapter in Recent Advances in Systems Safety and Security Volume 62 of the series Studies in Systems, Decision and Control, pp 41-56, 2016
10. M. Nicolae, D. Popescu, R. Dobrescu, C. Mateescu (2016). Improving Communication Efficiency of Hybrid UAV-WSN Systems, Book Chapter in Advances in Robot Design and Intelligent Control, Volume 371 of the series Advances in Intelligent Systems and Computing, pp 407-415, 2016

Monica Drăgoicea and Ph.D. students

11. Monica Dragoicea, Joao Falcao e Cunha, M. Alexandru, D. Constantinescu (2016). Modelling and Simulation Perspective in Service Design: Experience in Transport Information Service Development, p. 379-404, chapter 19 in: Handbook of Research on Strategic Alliances and Value Co-Creation in the Service Industry, Shao Rozenes, Yuval Cohen (Eds.), Advances in Hospitality, Tourism, and the Services Industry (AHTSI) Book Series, DOI: 10.4018/978-1-5225-2084-9.ch019, IGI Global 2017
12. Th. Borangiu, Monica Drăgoicea, Henriqueta Nóvoa (Eds.) (2016). Exploring Services Science, 7th International Conference, IESS 2016, Bucharest, Romania, May 25-27, 2016, Proceedings Series:

Florin Gheorghe Filip and Ph.D. students

13. Filip, F.G., Bala Zamfirescu, C., Ciurea, C. (2016). Computer-Supported Collaborative Decision-Making, Springer Series Automation, Collaboration and E-Services, ISBN 978-3-319-47219-5, 216 p, Springer AG, <http://link.springer.com/book/10.1007%2F978-3-319-47221-8>

Ion Necoară and Ph.D. students

14. Necoara, I. Patrascu (2016). Decomposition Methods for Large Scale Mathematical Optimization, John Wiley & Sons, 2016

Cristian Oară and Ph.D. students

15. F. Stoican, C. Oara, M. Hovd (2016). RPI approximations of the mRPI set characterizing linear dynamics with zonotopic disturbances, in Developments in Model-Based Optimization and Control (ed. S. Oлару, A. Grancharova, F. Lobo Pereira), Lecture Notes in Control and Information Science, Springer, 2016, ISBN 978-3-319-26687-9, pp. 361-377

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16. G. Stamatescu, D. Popescu, C. Mateescu (2016). Dynamic Task Planning of Aerial Robotic Platforms for Ground Sensor Data Collection and Processing. Advances in Robot Design and Intelligent Control – Proceedings of the 24th International Conference on Robotics in Alpe-Adria-Danube Region, RAAD 2015, Bucharest, Romania, 27-29 May 2015, Advances in Intelligent Systems and Computing 371, Springer 2016, ISBN 978-3-319-21289-0, pp 397-407.
17. M. Nicolae, D. Popescu, R. Dobrescu, C. Mateescu (2016). Improving Communication Efficiency of hybrid UAV – WSN systems, Book chapter in Advances in Robot Design and Intelligent Control – Proceedings of the 24th International Conference on Robotics in Alpe-Adria-Danube Region, RAAD 2015, Bucharest, Romania, 27-29 May 2015, Advances in Intelligent Systems and Computing 371, Springer 2016, ISBN 978-3-319-21289-0, pp 407-417
18. G. Stamatescu, D. Popescu, R. Dobrescu (2016). Book Chapter: Framework for Cognitive Radio Deployment in Large Scale WSN-UAV Surveillance. Recent Advances in Systems Safety and Security, Eds: Emil Pricop, Grigore Stamatescu, in Studies in Systems, Decision and Control, Volume 62, Springer, pp. 41-56, ISBN: 978-3-319-32523-1 (Print) 978-3-319-32525-5 (Online), 2016
19. D. Popescu, L. Ichim, R. Fratila, D. Gornea (2016). Book chapter: Image Based Control of a Simple Mobile Robotic System. Recent Advances in Systems Safety and Security, Eds: Emil Pricop, Grigore Stamatescu, in Studies in Systems, Decision and Control, Volume 62, Springer, pp. 117-137, ISBN: 978-3-319-32523-1 (Print) 978-3-319-32525-5 (Online), 2016
20. O. Chenaru, D. Popescu (2016). Book chapter: Execution of an IEC61499 Application on a Remote Server. Recent Advances in Systems Safety and Security, Eds: Emil Pricop, Grigore Stamatescu, in Studies in Systems, Decision and Control, Volume 62, Springer, pp. 117-137, ISBN: 978-3-319-32523-1

Dumitru Popescu and Ph.D. students

21. D. Popescu, D. Stefanoiu, P. Borne (2016). Conception de la Commande pour les Applications Industrielles, Monografie, Hermes-Lavoisier Paris, 2016
22. D. Popescu, D. Stefanoiu, P. Borne (2016). Control Design for Industrial Applications, Monografie, John Wiley London, 2016

Valentin Sgârciu and Ph.D. students

23. I. Halcu, Gr. Stamatescu, I. Stamatescu, V. Sgârciu (2016). IPv6 Sensor Networks Modeling for Security and Communication Evaluation, Chapter in book: Recent Advances in Systems Safety and Security, Vol. 62 of the series Studies in Systems, Decision and Control, pp 241-259, DOI: 10.1007/978-3-319-32525-5_14, Print ISBN: 978-3-319-32523-1, Online ISBN: 978-3-319-32525-5, Springer International Publishing.
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Valentin Cristea and Ph.D. students

25. F. Pop, C. Negru, S.N. Ciolofan, M. Mocanu, V. Cristea (2016). Optimizing Intelligent Reduction Techniques for Big Data” in “Big Data Optimization: Recent Developments and Challenges” p. 49-70, Editors: Emrouznejad, Ali , Springer, 2016, ISBN 978-3-319-30263-8
26. Bogdan-Costel Mocanu, Florin Pop, Ciprian Dobre, Valentin Cristea (2016). Self-adaptive Overlay Networks, chapter of book Pervasive Computing: Next Generation Platforms for Intelligent Data Collection, Editors: Morgan Kaufmann/ Elsevier, 2016
27. Claudia Ifrim, Andreea-Mihaela Pintilie, Elena Apostol, Ciprian Dobre, Florin Pop (2016). The Art of Advanced Healthcare Applications in Big Data and IoT Systems, Chapter in book: Mavromoustakis, Constandinos X., George Mastorakis, and Ciprian Dobre. “Advances in Mobile Cloud Computing and Big Data in the 5G Era.” Studies in big data (ISSN 2197-6503 22 (2016)
28. Olteanu, V. Raiciu, C. (2016). Datacenter Scale Load Balancing for Multipath Transport , Chapter in Book Proc. of the 2016 Workshop on Hot topics in Middleboxes and Network Function Virtualization, Florianopolis, Brazil, 2016
29. Catalin Gosman, Tudor Cornea, Ciprian Dobre, Florin Pop, Aniello Castiglione (2016). Putting the User in Control of the Intelligent Transportation System, Chapter in book: Information Security and Privacy, Volume 9722 of the series Lecture Notes in Computer Science pp 231-246, 2016
30. Cristian Chilipirea, Andreea-Cristina Petre, Loredana-Marsilia Groza, Ciprian Dobre, Florin Pop (2016). An Integrated Architecture for Future Studies in Data Processing for Smart Cities, Book chapter MICPRO, HACPS, 2016
31. Cristian Chilipirea, Andreea-Cristina Petre, and Ciprian Dobre (2016). Big Data Uses in Crowd Based Systems, Chapter in Book Resource Management for Big Data Platforms, pp. 441-459. Springer International Publishing, 2016
32. C. Negru, F. Pop, M. Mocanu, V. Cristea (2016). A Unified Approach to Data Modeling and Management in Big Data Era, Chapter in book Data Science and Big Data Computing, 95116, 2016
33. R.I. Ciobanu, R.C. Marin, C. Dobre, V. Cristea (2016). ONSIDESELF: A Selfish Node Detection and Incentive Mechanism for Opportunistic Dissemination, Chapter in book Internet of Things (IoT) in 5G Mobile Technologies, pages 317332, 2016

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34. Mihail Costea, Radu-Ioan Ciobanu, Radu-Corneliu Marin, Ciprian Dobre, Constandinos X. Mavromoustakis, George Mastorakis (2016). Causal and Total Order in Opportunistic Networks, in Emerging Innovations in Wireless Networks and Broadband Technologies, Naveen Chilamkurti (Ed.), IGI Global, chapter 10, pp. 221-262, 2016
35. Cristian Chilipirea, Andreea-Cristina Petre, Mitra Baratchi, Ciprian Dobre, Maarten van Steen (2016). WiFi tracking of pedestrian behavior, Chapter 18 in book Smart Sensors Networks: Communication Technologies and Intelligent Applications, F. Xhafa, L.-L. Hung, F.-Y. Leu (Eds.), Elsevier, 2016
36. Alexandra-Elena Mihaita, Ciprian Dobre, Florin Pop, Constandinos X. Mavromoustakis, George Mastorakis (2016). Secure Opportunistic Vehicle-to-Vehicle Communication, in Advances in Mobile Cloud Computing and Big Data under the 5G Era, C. X. Mavromoustakis, G. Mastorakis, C. Dobre (Eds.), Chapter published in the “Studies in Big Data” book series, Springer (2016)
37. O. Shiakallis, C. X. Mavromoustakis, G. Mastorakis, A. Bourdena, E. Pallis, E. Markakis, C. Dobre, N. Chilamkurti (2016). A Scheduling Scheme for Throughput Optimization in Mobile Peer-to-Peer Networks, in Emerging Innovations in Wireless Networks and Broadband Technologies, Naveen Chilamkurti (Ed.), IGI Global, chapter 8, pp. 169-198, 2016

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38. Nita, M. C., Vasile, M., Pop, F., Cristea, V. (2016). Workflow Scheduling Techniques for Big Data Platforms. Chapter in Resource Management for Big Data Platforms (pp. 35-53). Springer International Publishing
39. Pop, F., Tutueanu, R. I., Barbieru, C., Vasile, M. A., & Kołodziej, J. (2016). Adaptive Resource Allocation in Cloud Computing Based on Agreement Protocols, Chapter in Intelligent Agents in Data-intensive Computing (pp. 193-213). Springer International Publishing
40. Ionut-Mihai Posea, Marius Ion, Florin Pop, Decebal Popescu and Nirvana Popescu (2016). E-Vote: A Cloud-Based Electronic Voting System for Large-Scale Election. Chapter in Cloud Computing

Răzvan Rughiniș and Ph.D. students

41. R. Rughiniș, Ș. Matei (2016). A Delayed Badge is a Worthy Badge: Designing Digital Badge Architectures Based on Academic Delay of Gratification, Book chapter in L. Y. Muilenburg & Z. L. Berge (Eds.), Digital badges in education: Trends, issues, and cases, p. 203-214, New York: Routledge

Adriana Țăpuș and Ph.D. students

42. Chevalier, P., Martin, J.-C., Bazile, C., Isableu, B., Tapus, A. (2016) "Proprioceptive and Kinematic Profiles for Customized Human-Robot Interaction for People Suffering from Autism", In Autism – Paradigms and Clinical Application, Intech, ISBN 978-953-51-5013-8.
43. Ramaswamy A., Monsuez, B., and Tapus, A. (2016) "Formal Specification of Robotic Architectures for Experimental Robotics", In Springer Cosmos Series Book on Metrics of sensory motor integration in robots and animals

B2. Monographs and book chapters in national publishing houses

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Theodor Borangiu and Ph.D. students

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2. Borangiu, Th., Voinescu, I., Eds. (2016). Book of abstracts and Preprints volume of Int. Conf. IESS1.6, AGIR Publish. House, Bucharest, ISBN 978-973-720-631-2

Sergiu Stelian Iliescu and Ph.D. students

3. S. St. Iliescu, I. Făgărășan, C. Festila, I. Dumitrache (2016). Automatizari in energetica, cap. 31, AUTOMATICA vol. III, Publishing House of Romanian Academy, Bucharest, 2016, ISBN 978-973-27-2613-6

Costică Nitu and Ph.D. students

4. C. Nitu, A. Dobrescu, A. Oprea, V. Tovarnitchi, S. Popescu (2016). Sisteme inteligente in ecologie. Surse regenerabile de energie, ISBN978-606-25-0346, Ed. Matrix, 620 p., 2016
5. C. Nitu, V. Krapivin, I. Potapov (2016). Global Climate and Sustainable Development Problems, Ed. Matrix, Bucuresti, 2016

Dumitru Popescu and Ph.D. students

6. D. Popescu, N. Paraschiv, C. Patrascioiu (2016). Automatica Vol 3, Cap.33, Editor I. Dumitrache, Editura Academiei Romane, 2016

Dan Ștefănoiu and Ph.D. students

7. Ștefănoiu, D., Dumitrescu, B., Dumitrascu, A., Culita, J. (2016). Signal Processing – Laboratory Works (130 pages), "Politehnica" Press (ISBN: 978-606-515-725-5), Bucharest, Romania

Valentin Sgârciu and Ph.D. students

8. Enache, A.C., Sgarcu, V. (2016). Designing real-time anomaly intrusion detection through artificial immune systems, Proc. European Conference on Information Warfare and Security, ECCWS, 2016
9. Dobrin, A., Stamatescu, G., Dragana, C., Sgarcu, V. (2016). Cloud challenges for networked embedded systems: A review, Proc. 20th International Conference on System Theory, Control and

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10. Dincu, E. Apostol, C. Leordeanu, M. Mocanu, D. Huru (2016). Real-time processing of Heterogeneous Data in Sensor-based Systems, Published in The 7-th International Workshop on Autonomic Distributed Systems (ADIS), July 2016
11. C. Gosman, T. Cornea, C. Dobre, F. Pop, A. Castiglione (2016). Controlling and Filtering users data in Intelligent Transportation System, in Special Issue on Security and Privacy Issues in Fog Computing, ScienceDirect, Elsevier 2016
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13. R.I. Ciobanu, R.C. Marin, C. Dobre, V. Cristea (2016). Trust and reputation management for opportunistic dissemination, in Pervasive and Mobile Computing journal, Available online 3 October 2016
14. X. Koulouri, C. Ifrim, M. Wallace, F. Pop (2016). Making sense of citations, 2nd International KEYSTONE Conference (IKC 2016), Cluj-Napoca Romania, 8-9 Septembrie 2016
15. C.Chilipirea, A.-C. Petre, C. Dobre, F. Pop, G. Suci, A simulator for opportunistic networks, Concurrency and Computation Practice and Experience, cpe.3814, 2016
16. V.I. Nistorica, C. Chilipirea, C. Dobre, How many people are needed for a crowdsensing campaign?, IEEE Intelligent Computer Communication and Processing (ICCP), pp.353-358, Cluj-Napoca, Romania, September 2016
17. C. Chilipirea, A. Ursache, D.O. Popa, F. Pop, Energy efficiency and robustness for IoT: building a smart home security system, IEEE Intelligent Computer Communication and Processing (ICCP), pp.43-48, 2016
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23. Apostol, G.C., Pop, F. (2016). MICE: Monitoring high-level events in cloud environments. In Applied Computational Intelligence and Informatics (SACI), 2016 IEEE 11th International Symposium on (pp. 377-380). IEEE
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Stefan Trăuşan-Matu and Ph.D. students

25. Traian Rebedea, Mihai Dascălu, Ştefan Trăuşan-Matu, Proiectarea algoritmilor. O abordare practică (2016), Politehnica Press, Bucharest, 2016