

Universitatea Tehnică din Cluj-Napoca
Facultatea Automatica si Calculatoare
Departamentul Calculatoare
Sef Lucrari Lia-Anca Hangan

LISTA

lucrărilor științifice

Lista publicatii relevante

1. Anca Hangan, Gheorghe Sebestyen, "RTMultiSim: A versatile simulator for multiprocessor real-time systems," in Proceedings of The 3rd International Workshop on Analysis Tools and Methodologies for Embedded and Real-time Systems (WATERS) in conjunction with ECRTS2012 Pisa, Italy, p. 15, 2012
2. **Hangan, A.**; Vacariu, L.; Cret, O.; Hedesiu, H., "A Prototype for the Remote Monitoring of Water Parameters," Control Systems and Computer Science (CSCS), 2013 19th International Conference on , vol., no., pp.634,639, 29-31 May 2013 ISBN: 978-1-4673-6140-8
3. **Hangan, A.**, Vacariu, L., Cret, O., Muste, M., "Providing water parameters monitoring data through interoperable web services", in ICINCO 2014 - Proceedings of the 11th International Conference on Informatics in Control, Automation and Robotics, vol. 1, pp. 684-690, 2014 ISBN: 978-9-8975-8062-8.
4. Vlad Olaru, **Anca Hangan**, Gheorghe Sebestyen-Pal: Java Support Packages and Benchmarks for Multi-core Processors. HPCC 2011: 528-535 ISBN: 978-1-4577-1564-8
5. **Anca Hangan**, Gheorghe Sebestyen, and Lucia Vacariu. "Multiprocessor Real-time Scheduling Using an Optimization-based Technique." IJCCI (ECTA). 2014.
6. G. Sebestyen, **A. Hangan**, S. Oniga and Z. Gál, "eHealth solutions in the context of Internet of Things," 2014 IEEE International Conference on Automation, Quality and Testing, Robotics, Cluj-Napoca, 2014, pp. 1-6. ISBN: 978-1-4799-3731-8
7. Gheorghe Sebestyen, **Anca Hangan**, Alin Suciu, "Simulation-based Schedulability Tests for Multiprocessor Real-time Systems," in Proceedings of 2012 IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2012 ISBN: 978-1-4673-0704-8
8. G. Sebestyen, **A. Hangan**, Z. Czako and G. Kovacs, "A taxonomy and platform for anomaly detection," 2018 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), Cluj-Napoca, Romania, 2018, pp. 1-6.
9. Gheorghe Sebestyen, **Anca Hangan**, Katalin Sebestyen, Roland Vachter, Self-tuning Multimedia Streaming System on Cloud Infrastructure, Procedia Computer Science, Volume 18, 2013, Pages 1342-1351, ISSN 1877-0509
10. Gh. Sebestyen, **A. Hangan**, "Anomaly detection techniques in cyber-physical systems", Acta Universitatis Sapientiae, Informatica, Vol. 9, No. 2, pp. 101-118, 2017, ISSN 1844-6086

A – Teza de doctorat

„Contributii la dezvoltarea sistemelor paralele si distribuite de timp-real”
conducător științific : Prof.dr.ing.Ioan Salomie
Universitatea Tehnica din Cluj Napoca
Susținere publică: 3 iunie 2014

B – Cărți și capitole în cărți

CĂRȚI

1. **Anca Hangan**, Anca Rarau, Catalin Sipos, "Parallel and Distributed Computing", 2009, UTPRESS, ISBN: 978-973-662-484-1
2. C. Oprisa, **A. Hangan**, M. Neagu, E. Cebuc, Gh. Sebestyen, „Programare în limbaj de asamblare”, Editura UTPRESS Cluj-Napoca, 2018, ISBN 978-606-737-333-2
3. Gh. Sebestyen, **A. Hangan**, Informatică Industrială. Lucrări practice, exerciții și probleme, 2020, UTPRESS, ISBN 978-606-737-414-8
4. **A. Hangan**, Contributions to the development of parallel and distributed real-time systems, 2020, UTPRESS, ISBN 978-606-737-444-5

CAPITOLE

1. Z. Czako, Gh. Sebestyen, A. Hangan, Trends and Innovations in Information Systems and Technologies. Volume 2. Chapter: "Colorectal Image Classification with Transfer Learning and Auto-Adaptive Artificial Intelligence Platform" p.534-543, Springer 2020, ISBN 978-3-030-45691-7

C – Lucrări indexate ISI/BDI

c1) Articole / studii publicate în reviste de specialitate de circulație internațională recunoscute (cotate ISI)

1. G Kovács, G Sebestyen, **A Hangan**, Evaluation metrics for anomaly detection algorithms in time-series, Acta Univ. Sapientiae 11 (2), 113-130, 2019, ISSN: 1844-6086
2. Deak N, Creț O, Echim M, Teodorescu E, Negrea C, Văcariu L, Munteanu C, **Hangan A**. Edge computing for space applications: Field programmable gate array-based implementation of multiscale probability distribution functions. Review of Scientific Instruments. 2018 Dec 12;89(12):125005, ISSN: 0034-6748.
3. Gh. Sebestyen, **A. Hangan**, “Anomaly detection techniques in cyber-physical systems”, Acta Universitatis Sapientiae, Informatica, Vol. 9, No. 2, pp. 101-118, 2017, ISSN 1844-6086
4. Lucia Vacariu, **Anca Hangan**, Mariana Mocanu, Pollution Detection On The Cyberwater Platform, in Environmental Engineering And Management Journal, vol. 14, no. 9, pp. 2043-2050, 2015. ISSN: 1582-9596

c2) Studii publicate la conferințe indexate în baze de date internaționale de referință în domeniul calculatoare (DBLP, ACM, IEEE, SCOPUS)¹

1. Gheorghe Sebestyen, **Anca Hangan**, Anca Misin, „Travel assistant for persons with visual disabilities”, IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), Cluj-Napoca, Romania, May 2020 [IEEE]

¹ indexate în:

[IEEE] - IEEE Xplore (<http://ieeexplore.ieee.org/Xplore/guesthome.jsp>)

[ACM] - ACM portal (<http://portal.acm.org>)

[DBLP] - (<http://www.informatik.uni-trier.de>)

[SCOPUS] - (<http://www.scopus.com>)

2. C Mihali, **A Hangan**, G Sebestyén, Z István, „In-Storage Data Transformations for Enforceable Privacy”, EUROSYS’20, 2020 [ACM]
3. G. Sebestyén, **A. Hangan**, Z. Czako and G. Kovacs, "A taxonomy and platform for anomaly detection," 2018 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), Cluj-Napoca, Romania, 2018, pp. 1-6. [IEEE]
4. Sebestyén G. and **Hangan A.** (2018). Anomaly Detection using System Identification Techniques. In Proceedings of the 15th International Conference on Informatics in Control, Automation and Robotics - Volume 1: ICINCO, ISBN 978-989-758-321-6, pages 482-487. [DBLP]
5. Czako Z., Sebestyén G. and **Hangan A.** (2018). Evaluation Platform for Artificial Intelligence Algorithms. In Proceedings of the 10th International Joint Conference on Computational Intelligence - Volume 1: IJCCI, ISBN 978-989-758-327-8, pages 39-46 [DBLP]
6. Lucia Văcariu, **Anca Hangan**, Octavian Creț, Andrei Crețu, A Decision Support System on the Cyberwater Platform. Proceedings of the 21st International Conference on Control Systems and Computer Science, CSCS21, 3rd International Workshop on Cyberinfrastructures for Natural Resources Management, CyRM-2017, May 29-31, 2017, Bucharest, Romania, pp. 591-598, ISBN-13: 978-1-5386-1839-4, ISSN: 2379-0482. [IEEE]
7. G. Sebestyén and **A. Hangan**, "Bloom filters for information retrieval in the context of IoT," 2016 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), Cluj-Napoca, 2016, pp. 1-6. ISBN: 978-1-5090-3899-2 [IEEE]
8. G. Sebestyén, I. Stoica and **A. Hangan**, "Human activity recognition and monitoring for elderly people," 2016 IEEE 12th International Conference on Intelligent Computer Communication and Processing (ICCP), Cluj-Napoca, 2016, pp. 341-347. ISBN: 978-1-5090-3899-2 [IEEE]
9. C. Negru, F. Pop, M. Mocanu, V. Cristea, **A. Hangan** and L. Vacariu, "Cost-aware cloud storage service allocation for distributed data gathering," 2016 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), Cluj-Napoca, 2016, pp. 1-5. ISBN: 978-1-4673-8692-0 [IEEE]
10. G. Sebestyén, D. Muresan and **A. Hangan**, "Road quality evaluation with mobile devices," Proceedings of the 2015 16th International Carpathian Control Conference (ICCC), Szilvasvarad, 2015, pp. 458-464. ISBN: 978-1-4799-7370-5 [IEEE]
11. L. Vacariu, O. Cret, **A. Hangan** and C. Bacotiu, "Water Parameters Monitoring on a Cyberwater Platform," 2015 20th International Conference on Control Systems and Computer Science, Bucharest, 2015, pp. 797-802 ISBN: 978-1-4799-1780-8 [IEEE]
12. Vacariu, L., **Hangan, A.**, Cret, O., Hedeshiu, H., "An INSPIRE-compliant system for pollution detection for some river, in Proceedings - 2015 20th International Conference on Control Systems and Computer Science", CSCS 2015, pp. 803-808, 2015. ISBN: 978-1-4799-1780-8 [IEEE]
13. **Anca Hangan**, Gheorghe Sebestyén, and Lucia Vacariu. "Multiprocessor Real-time Scheduling Using an Optimization-based Technique." IJCCI (ECTA). 2014. [SCOPUS]
14. **Hangan, A.**, Vacariu, L., Cret, O., Muste, M., "Providing water parameters monitoring data through interoperable web services", in ICINCO 2014 - Proceedings of the 11th International Conference on Informatics in Control, Automation and Robotics, vol. 1, pp. 684-690, 2014 ISBN: 978-9-8975-8062-8.[SCOPUS][IEEE][ACM]
15. G. Sebestyén, **A. Hangan**, S. Oniga and Z. Gál, "eHealth solutions in the context of Internet of Things," 2014 IEEE International Conference on Automation, Quality and Testing, Robotics, Cluj-Napoca, 2014, pp. 1-6. ISBN: 978-1-4799-3731-8 [IEEE]

16. **Hangan, A.**; Vacariu, L.; Cret, O.; Hedesiu, H., "A Prototype for the Remote Monitoring of Water Parameters," Control Systems and Computer Science (CSCS), 2013 19th International Conference on , vol., no., pp.634,639, 29-31 May 2013 ISBN: 978-1-4673-6140-8 [IEEE][SCOPUS]
17. Gheorghe Sebestyen, **Anca Hangan**, Katalin Sebestyen, Roland Vachter, Self-tuning Multimedia Streaming System on Cloud Infrastructure, Procedia Computer Science, Volume 18, 2013, Pages 1342-1351, ISSN 1877-0509[SCOPUS][DBLP]
18. Gheorghe Sebestyen, **Anca Hangan**, "Genetic approach for real-time scheduling on multiprocessor systems," Intelligent Computer Communication and Processing (ICCP), 2012 IEEE International Conference on , vol., no., pp.267,272, Aug. 30 2012-Sept. 1 2012 ISBN: 978-1-4673-2953-8 [IEEE]
19. Gheorghe Sebestyen, **Anca Hangan**, Alin Suciu, "Simulation-based Schedulability Tests for Multiprocessor Real-time Systems," in Proceedings of 2012 IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2012 ISBN: 978-1-4673-0704-8 [IEEE]
20. **Anca Hangan**, Gheorghe Sebestyen, "Cyclic executive-based method for scheduling hard real-time transactions on distributed systems" iccp, pp.441-444, Proceedings of the 2011 IEEE 6th International Conference on Intelligent Computer Communication and Processing, 2011 ISBN 978-1-4577-1479-5 [IEEE]
21. Vlad Olaru, **Anca Hangan**, Gheorghe Sebestyen-Pal: Java Support Packages and Benchmarks for Multi-core Processors. HPCC 2011: 528-535 ISBN: 978-1-4577-1564-8 [IEEE][ACM][DBLP]
22. **Anca Hangan**, Gheorghe Sebestyen, "Simulation-based evaluation of real-time multiprocessor scheduling strategies" iccp, pp.375-378, Proceedings of the 2010 IEEE 6th International Conference on Intelligent Computer Communication and Processing, 2010 ISBN 978-1-4244-8228-3 [IEEE][ACM]
23. Olaru, V.; **Hangan, A.**; Sebestyen, Gh.; , "RTSJMcbench, a framework for writing parallel benchmarks for Real-Time Java on multi-core architectures," Automation Quality and Testing Robotics (AQTR), 2010 IEEE International Conference on , vol.2, no., pp.1-6, 28-30 May 2010, ISBN 978-1-4244-6724-2 [IEEE][ACM]
24. **Anca Hangan**, Ramona Marfievici, Gheorghe Sebestyen - "Solutions for Real-Time Communication over Best-Effort Networks", RoEduNet International Conference 2008, pp.44, ISBN: 978-973-662-393-6[IEEE]
25. Vlad Olaru, **Anca Hangan**, Gheorghe Sebestyen, Gavril Saplacan - "Real-time Java and multi-core architectures", Intelligent Computer Communication and Processing, 2008. ICCP 2008, pp.215-222, ISBN: 978-1-4244-2673-7[IEEE]
26. Ramona Marfievici, **Anca Hangan**, Gheorghe Sebestyen - "Periodic real-time data flows over general purpose networks", Intelligent Computer Communication and Processing, 2008. ICCP 2008, pp.207-213, ISBN: 978-1-4244-2673-7[IEEE]
27. Gheorghe Sebestyen, **Anca Hangan** - "Transaction-based model for real-time distributed control systems", Automation, Quality and Testing, Robotics, 2008. AQTR 2008, pp.165-170, ISBN: 978-1-4244-2576-1[IEEE][ACM]
28. **Anca Hangan**, Ramona Marfievici, Gheorghe Sebestyen – "Reservation-Based Data Flow Scheduling in Distributed Control Applications" – The Third International Conference on Networking and Services, 19-25 June 2007, Athens, Greece, in Proceedings of the Third International Conference on Networking and Services, IEEE Computer Society Washington, DC, USA, 2007, ISBN: 0-7695-2858-9, p. 10-15 – Best Paper Award[IEEE][ACM][DBLP]
29. Ramona Marfievici, Gheorghe Sebestyen, **Anca Pop-Bidian** – "Industrial Control Communication Framework based on an IPv6 Infrastructure" – International Multi-

Conference on Computing in the Global Information Technology – Challenges for the Next Generation of IT&C, Bucuresti, Romania, 1-3 August 2006, in IEEE Computer Society Order Number E2629, ISBN 0-7695-2629-2, Editors: Petre Dini, Chip Popoviciu, Cosmin Dini, Gunter van de Velde, Eugen Borcoci [IEEE]

30. Ramona Marfievici, Gheorghe Sebestyen, **Anca Pop-Bidian** – “QoS and IPv6 Infrastructure for Industrial Control Applications” – 5th RoEduNet IEEE International Conference, Sibiu, Romania, June 2006, in “Proceedings of the 5th RoEduNet IEEE International Conference”, Ed. Univ. Lucian Blaga, ISBN (10)973-739-277-9; (13)978-973-739-277-0, p. 166-169 [IEEE]

D – Lucrări publicate reviste și volume de conferințe cu referenți (neindexate)

1. G. Sebestyen, A. Hangan, G. Kovacs and Z. Czako, Platform for Anomaly Detection in Time-Series, Science in Practice 2018, Budapesta, Ungaria
2. Anca Hangan, Gheorghe Sebestyen, “RTMultiSim: A versatile simulator for multiprocessor real-time systems,” in Proceedings of The 3rd International Workshop on Analysis Tools and Methodologies for Embedded and Real-time Systems (WATERS) in conjunction with ECRTS2012 Pisa, Italy, p. 15, 2012

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Semnătura

