

Radu-Ioan Ciobanu - Lucrări publicate

Lista de lucrări relevante pentru realizările profesionale proprii (10 lucrări)

1. Cristian Pop, **Radu-Ioan Ciobanu**, Radu-Corneliu Marin, Ciprian Dobre, Constandinos X. Mavromoustakis, George Mastorakis, Joel J.P.C. Rodrigues, "*Data Dissemination in Vehicular Ad Hoc Networks using Context Spaces*", in 2015 IEEE Global Communications Conference (GC'15 Workshops), San Diego, CA, USA, 6-10 December 2015, IEEE 2015, ISBN: 978-1-4673-9526-7, DOI: 10.1109/GLOCOMW.2015.7413963, INSPEC Accession Number: 15805873.
2. **Radu-Ioan Ciobanu**, Radu-Corneliu Marin, Ciprian Dobre, Valentin Cristea, Constandinos X. Mavromoustakis, George Mastorakis, "*Opportunistic Dissemination using Context-Based Data Aggregation over Interest Spaces*", in IEEE International Conference on Communications (ICC 2014), London, UK, 8-12 June 2014, IEEE 2015, ISBN: 978-1-4673-6432-4, ISSN: 1550-3607, DOI: 10.1109/ICC.2015.7248489, INSPEC Accession Number: 15438379.
3. **Radu-Ioan Ciobanu**, Radu-Corneliu Marin, Ciprian Dobre, Valentin Cristea, Constandinos X. Mavromoustakis, "*ONSIDE: Socially-Aware and Interest-Based Dissemination in Opportunistic Networks*", in Proc. of the Sixth IEEE/IFIP International Workshop on Management of the Future Internet (ManFI 2014), Krakow, Poland, 5-29 May 2014, IEEE 2014, ISBN: 978-1-4799-0913-1, DOI: 10.1109/NOMS.2014.6838390.
4. **Radu Ioan Ciobanu**, Ciprian Dobre, Valentin Cristea, "*SPRINT: Social Prediction-Based Opportunistic Routing*", in World of Wireless, Mobile and Multimedia Networks (WoWMoM), 2013 IEEE 14th International Symposium and Workshops on a, Madrid, Spain, June 2013, pp. 1-7, IEEE 2013, ISBN: 978-1-4673-5827-9, DOI: 10.1109/WoWMoM.2013.6583442, INSPEC Accession Number: 13712781.
5. **Radu-Ioan Ciobanu**, Radu-Corneliu Marin, Ciprian Dobre, "*Interaction Predictability of Opportunistic Networks in Academic Environments*", in Transactions on Emerging Telecommunications Technologies, vol. 25, issue 8, pp. 852-864, ISSN: 2161-3915, DOI: 10.1002/ett.2692, 2013. (indexare ISI, IF = 1.295)
6. **Radu Ioan Ciobanu**, Ciprian Dobre, Mihai Dascalu, Stefan Trausan-Matu, Valentin Cristea, "*Collaborative Selfish Node Detection with an Incentive Mechanism for Opportunistic Networks*", in Integrated Network Management (IM 2013), 2013 IFIP/IEEE International Symposium on, pp. 1161-1166, IEEE 2013, ISBN: 978-1-4673-5229-1, INSPEC Accession Number: 13684423.
7. **Radu Ioan Ciobanu**, Ciprian Dobre, Valentin Cristea, Florin Pop, Fatos Xhafa, "*SPRINT-SELF: Social-Based Routing and Selfish Node Detection in Opportunistic Networks*", in Mobile Information Systems (MIS), Special Issue on Emerging Trends in Networking and Ubiquitous Technologies, vol. 2015, 12 pages, ISSN: 1574-017x, DOI: 10.1155/2015/596204, 2013. (indexare ISI, IF = 1.462)
8. **Radu-Ioan Ciobanu**, Ciprian Dobre, Mihai Dascalu, Stefan Trausan-Matu, Valentin Cristea, "*SENSE: A Collaborative Selfish Node Detection and Incentive Mechanism for Opportunistic Networks*", in Journal of Network and Computer Applications, vol. 41, pp. 240-249, ISSN: 1084-8045, DOI: 10.1016/j.jnca.2014.01.009, 2013. (indexare ISI, IF = 2.331)
9. **Radu Ioan Ciobanu**, Ciprian Dobre. "*Predicting encounters in opportunistic networks*", in Proceedings of the 1st ACM workshop on High performance mobile opportunistic systems (HP-MOSys '12), Paphos, Cyprus, October 2012, pp. 9-14, ACM 2012, ISBN: 978-1-4503-1629-3, DOI: 10.1145/2386980.2386983.
10. **Radu Ioan Ciobanu**, Daniel Gutiérrez Reina, Ciprian Dobre, Sergio L. Toral, Princy Johnson, "*JDER: A history-based forwarding scheme for Delay Tolerant Networks using Jaccard Distance and Encountered Ration*", in Journal of Network and Computer Applications, vol. 40, pp. 279-291, ISSN: 1084-8045, DOI: 10.1016/j.jnca.2013.09.012, 2013. (indexare ISI, IF = 2.331)

I. TEZA DE DOCTORAT (T)

- T1. **Radu-Ioan Ciobanu**, *Middleware pentru sisteme mobile colaborative cu adaptare la context și extragere de cunoștințe (Context-Adaptive and Knowledge-Based Middleware for Mobile Collaborative Systems)*, teză susținută public în data de 15 ianuarie 2016. Calificativ și Distincție: EXCELENT, *SUMMA CUM LAUDE*.

III. ALTE MATERIALE PUBLICATE (I, D)

I - Culegeri și Îndrumare publicate (separate în edituri cu ISBN și în tipografiile locale/de instituții sau de uz intern); D - Alte lucrări publicate: capitole publicate în volume colective, capitole teoretice redactate, sisteme de laborator funcționale etc.

- D1. Mihail Costea, **Radu-Ioan Ciobanu**, Radu-Corneliu Marin, Ciprian Dobre, Constandinos X. Mavromoustakis, George Mastorakis, "*Causal and Total Order in Opportunistic Networks*", in Emerging Innovations in Wireless Networks and Broadband Technologies, IGI Global, pp. 221-262, DOI:10.4018/978-1-4666-9941-0.ch010, 2016.

- D2. **Radu-Ioan Ciobanu**, Radu-Corneliu Marin, Ciprian Dobre, Valentin Cristea, "*ONSIDE-SELF: A Selfish Node Detection and Incentive Mechanism for Opportunistic Dissemination*", in Internet of Things (IoT) in 5G Mobile Technologies (IoT5G 2015), Springer International Publishing, pp. 317-332, DOI: 10.1007/978-3-319-30913-2_14, ISBN: 978-3-319-30913-2, 2015.
- D3. **Radu-Ioan Ciobanu**, Ciprian Dobre, "*Employing Opportunistic Networks in Dementia Patient Monitoring*", in Advanced Technological Solutions for Dementia Patient Monitoring, IGI Global, pp. 106-136, DOI: 10.4018/978-1-4666-7481-3.ch005, 2014.
- D4. Radu-Corneliu Marin, **Radu-Ioan Ciobanu**, Radu Pasea, Vlad Barosan, Mihail Costea, Ciprian Dobre, "*Context-awareness in Opportunistic Mobile Cloud Computing*", in Resource Management of Mobile Cloud Computing Networks and Environments. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, IGI Global, pp. 203-237, DOI: 10.4018/978-1-4666-8225-2.ch008, 2014.
- D5. **Radu-Ioan Ciobanu**, Valentin Cristea, Ciprian Dobre, Florin Pop, "*Big Data Platforms for the Internet of Things*", in Big Data and Internet of Things: A Roadmap for Smart Environments. Studies in Computational Intelligence, vol. 546, Springer, pp. 3-34, DOI: 10.1007/978-3-319-05029-4_1, ISBN: 978-3-319-05029-4, 2014.
- D6. **Radu-Ioan Ciobanu**, Ciprian Dobre, Fatos Xhafa, "*Data Modeling for Socially-Based Routing in Opportunistic Networks*", in Modelling and Processing for Next Generation Big Data Technologies and Applications. Modeling and Optimization in Science and Technologies, vol. 4, Springer, pp. 29-55, DOI: 10.1007/978-3-319-09177-8_2, ISBN: 978-3-319-09177-8, 2014.
- D7. Radu-Corneliu Marin, **Radu-Ioan Ciobanu**, Ciprian Dobre, Fatos Xhafa, "*Techniques and Applications to Analyze Mobility Data*", in Inter-cooperative Collective Intelligence: Techniques and Applications, Studies in Comp. Intel., vol. 495, Springer, DOI: 10.1007/978-3-642-35016-0_8, ISBN: 978-3-642-35016-0, 2013.

IV. ARTICOLE / STUDII IN EXTENSO PUBLICATE (R, V)

Ris – Reviste de specialitate de circulație internațională recunoscute (cotate / indexate ISI Thomson Reuters, sau indexate in alte Baze de Date Internationale - BDI specifice domeniului, care fac un proces de selectie a revistelor pe baza unor criterii de performanta).

Rio – Alte reviste de specialitate de circulație internațională.

Rns – Reviste de specialitate de circulație națională recunoscute de CNCSIS.

Rno – Alte reviste de specialitate de circulație națională.

Vis – Volumele unor manifestări științifice internaționale recunoscute, organizate în țară și străinătate, indexate ISI Thomson Reuters sau indexate in alte Baze de Date Internationale - BDI specifice domeniului, care fac un proces de selectie a publicatiilor pe baza unor criterii de performanta.

Vi – Volumele unor manifestări științifice internaționale recunoscute, organizate în țară și străinătate;

Vn – Volumele unor manifestări științifice naționale.

- Ris1. Cristian-Octavian Ojog, Radu-Corneliu Marin, **Radu-Ioan Ciobanu**, Ciprian Dobre, "*Multi-criteria optimization of wireless connectivity over sparse networks*", in Computer Networks, vol. 111, pp. 120-128, ISSN: 1389-1286, DOI: 10.1016/j.comnet.2016.07.010, 2016 (indexare ISI, IF = 1.446).
- Ris2. Mihail Costea, **Radu-Ioan Ciobanu**, Radu-Corneliu Marin, Ciprian Dobre, Constandinos X. Mavromoustakis, George Mastorakis, Fatos Xhafa, "*Total order in opportunistic networks*", in Concurrency and Computation: Practice and Experience, vol. 29, no. 10, ISSN: 1532-0634, DOI: 10.1002/cpe.4056, 2017 (indexare ISI, IF = 0.942).
- Ris3. **Radu-Ioan Ciobanu**, Radu-Corneliu Marin, Ciprian Dobre, Valentin Cristea, "*Trust and Reputation Management for Opportunistic Dissemination*", in Pervasive and Mobile Computing, ISSN: 1574-1192, 2016. (indexare ISI, IF = 1.719)
- Ris4. Daniel Gutiérrez Reina, Patricia Ruiz, **Radu-Ioan Ciobanu**, Sergio L. Toral, Bernabe Dorransoro, Ciprian Dobre, "*A Survey on the Application of Evolutionary Algorithms for Mobile Multihop Ad Hoc Network Optimization Problems*", in International Journal of Distributed Sensor Networks, ISSN: 1550-1477, DOI:10.1155/2016/2082496, 2016. (indexare ISI, IF = 0.906)
- Ris5. Daniel Gutiérrez Reina, **Radu-Ioan Ciobanu**, Sergio L. Toral, Ciprian Dobre, "*A multi-objective optimization of data dissemination in delay tolerant networks*", in Expert System with Applications, vol. 57, pp. 178-191, ISSN: 0957-4174, DOI: 10.1016/j.eswa.2016.03.038, 2016 (indexare ISI, IF = 2.981)
- Ris6. **Radu-Ioan Ciobanu**, Radu-Corneliu Marin, Ciprian Dobre, Florin Pop, "*Interest Spaces: a Unified Interest-Based Dissemination Framework for Opportunistic Networks*", in Journal of Systems Architecture, ISSN 1383-7621, DOI: 10.1016/j.sysarc.2016.06.004, 2016. (indexare ISI, IF = 0.683)
- Ris7. **Radu-Ioan Ciobanu**, Radu-Corneliu Marin, Ciprian Dobre, Valentin Cristea, "*Interest-Awareness in Data Dissemination for Opportunistic Networks*", in Ad Hoc Networks, Special Issue on New Research Challenges in Mobile, Opportunistic and Delay-Tolerant Networks, vol. 25, part B, pp. 330-345, ISSN: 1570-8705, DOI: 10.1016/j.adhoc.2014.07.004, 2014. (indexare ISI, IF = 1.660)
- Ris8. **Radu Ioan Ciobanu**, Ciprian Dobre, Valentin Cristea, Florin Pop, Fatos Xhafa, "*SPRINT-SELF: Social-Based Routing and Selfish Node Detection in Opportunistic Networks*", in Mobile Information Systems (MIS), Special Issue on Emerging Trends in Networking and Ubiquitous Technologies, vol. 2015, 12 pages, ISSN: 1574-017x, DOI: 10.1155/2015/596204, 2013. (indexare ISI, IF = 1.462)

- Ris9. **Radu-Ioan Ciobanu**, Ciprian Dobre, Mihai Dascalu, Stefan Trausan-Matu, Valentin Cristea, "*SENSE: A Collaborative Selfish Node Detection and Incentive Mechanism for Opportunistic Networks*", in Journal of Network and Computer Applications, vol. 41, pp. 240-249, ISSN: 1084-8045, DOI: 10.1016/j.jnca.2014.01.009, 2013. (indexare ISI, IF = 2.331)
- Ris10. **Radu Ioan Ciobanu**, Daniel Gutiérrez Reina, Ciprian Dobre, Sergio L. Toral, Princy Johnson, "*JDER: A history-based forwarding scheme for Delay Tolerant Networks using Jaccard Distance and Encountered Ration*", in Journal of Network and Computer Applications, vol. 40, pp. 279-291, ISSN: 1084-8045, DOI: 10.1016/j.jnca.2013.09.012, 2013. (indexare ISI, IF = 2.331)
- Ris11. **Radu-Ioan Ciobanu**, Radu-Corneliu Marin, Ciprian Dobre, "*Interaction Predictability of Opportunistic Networks in Academic Environments*", in Transactions on Emerging Telecommunications Technologies, vol. 25, issue 8, pp. 852-864, ISSN: 2161-3915, DOI: 10.1002/ett.2692, 2013. (indexare ISI, IF = 1.295)
- Ris12. Florin Pop, **Radu-Ioan Ciobanu**, Ciprian Dobre, "*Adaptive Method to Support Social-based Mobile Networks Using a PageRank Approach*", in Concurrency and Computation: Practice and Experience, vol. 27, issue 8, pp. 1900-1912, ISSN: 1532-0626, DOI: 10.1002/cpe.3103, 2013. (indexare ISI, IF = 0.942)
- Ris13. **Radu-Ioan Ciobanu**, Ciprian Dobre, "*Social-awareness in opportunistic networking*", in International Journal of Intelligent Systems Technologies and Applications (IJISTA), Special Issue on Green Communication and Computing, vol. 12, issue 1, ISSN: 17408865, DOI: 10.1504/IJISTA.2013.055095, 2013. (IF = 0.590)
- Ris14. **Radu Ioan Ciobanu**, Ciprian Dobre, "*Opportunistic Networks: A Taxonomy of Data Dissemination Techniques*", in International Journal of Virtual Communities and Social Networking (IJVCSN), vol. 5, issue 2, pp. 11-26, ISSN: 1942-9010, DOI: 10.4018/jvcsn.2013040102, 2013.
- Vis1. Radu Drăgan, **Radu-Ioan Ciobanu**, Ciprian Dobre, Constandinos X. Mavromoustakis, George Mastorakis, "*Multimedia sharing over opportunistic networks*", in 2016 IEEE 12th International Conference on Intelligent Computer Communication and Processing (ICCP), pp. 409-416, IEEE 2016, ISBN: 978-1-5090-3899-2, DOI: 10.1109/ICCP.2016.7737181, INSPEC Accession Number: 16450454.
- Vis2. Cristian Pop, **Radu-Ioan Ciobanu**, Radu-Corneliu Marin, Ciprian Dobre, Constandinos X. Mavromoustakis, George Mastorakis, Joel J.P.C. Rodrigues, "*Data Dissemination in Vehicular Ad Hoc Networks using Context Spaces*", in 2015 IEEE Global Communications Conference (GC'15 Workshops), San Diego, CA, USA, 6-10 December 2015, IEEE 2015, ISBN: 978-1-4673-9526-7, DOI: 10.1109/GLOCOMW.2015.7413963, INSPEC Accession Number: 15805873.
- Vis3. **Radu-Ioan Ciobanu**, Radu-Corneliu Marin, Ciprian Dobre, Valentin Cristea, Constandinos X. Mavromoustakis, George Mastorakis, "*Opportunistic Dissemination using Context-Based Data Aggregation over Interest Spaces*", in IEEE International Conference on Communications (ICC 2015), London, UK, 8-12 June 2014, IEEE 2015, ISBN: 978-1-4673-6432-4, ISSN: 1550-3607, DOI: 10.1109/ICC.2015.7248489, INSPEC Accession Number: 15438379.
- Vis4. **Radu-Ioan Ciobanu**, Radu-Corneliu Marin, Ciprian Dobre, Valentin Cristea, Constandinos X. Mavromoustakis, "*ONSIDE: Socially-Aware and Interest-Based Dissemination in Opportunistic Networks*", in Proc. of the Sixth IEEE/IFIP International Workshop on Management of the Future Internet (ManFI 2014), Krakow, Poland, 5-29 May 2014, IEEE 2014, ISBN: 978-1-4799-0913-1, DOI: 10.1109/NOMS.2014.6838390.
- Vis5. Daniel Reina, **Radu Ioan Ciobanu**, Sergio Toral, Ciprian Dobre, Federico Barrero, "*Analysis of Probabilistic Forwarding in Opportunistic Networks Using the Percolation Theory*", in Sixth International Conference on Developments in e-Systems Engineering (DeSE2013), Abu Dhabi, UAE, December 2013, IEEE 2015, ISBN: 978-1-4799-5263-2, ISSN: 2161-1343, DOI: 10.1109/DeSE.2013.18, INSPEC Accession Number: 14930435.
- Vis6. **Radu Ioan Ciobanu**, Ciprian Dobre, Valentin Cristea, "*SPRINT: Social Prediction-Based Opportunistic Routing*", in World of Wireless, Mobile and Multimedia Networks (WoWMoM), 2013 IEEE 14th International Symposium and Workshops on a, Madrid, Spain, June 2013, pp. 1-7, IEEE 2013, ISBN: 978-1-4673-5827-9, DOI: 10.1109/WoWMoM.2013.6583442, INSPEC Accession Number: 13712781.
- Vis7. **Radu Ioan Ciobanu**, Ciprian Dobre, Mihai Dascalu, Stefan Trausan-Matu, Valentin Cristea, "*Collaborative Selfish Node Detection with an Incentive Mechanism for Opportunistic Networks*", in Integrated Network Management (IM 2013), 2013 IFIP/IEEE International Symposium on, pp. 1161-1166, IEEE 2013, ISBN: 978-1-4673-5229-1, INSPEC Accession Number: 13684423.
- Vis8. **Radu Ioan Ciobanu**, Ciprian Dobre, Valentin Cristea, "*Reducing Congestion for Routing Algorithms in Opportunistic Networks with Socially-Aware Node Behavior Prediction*", in Proc. of 27th International Conference on Advanced Information Networking and Applications (AINA-2013), Barcelona, Spain, 25-28 March 2013, pp. 554-561, IEEE 2013, ISBN: 978-0-7695-4953-8, ISSN: 1550-445X, DOI: 10.1109/AINA.2013.63, INSPEC Accession Number: 13581080.
- Vis9. **Radu Ioan Ciobanu**, Ciprian Dobre. "*Predicting encounters in opportunistic networks*", in Proceedings of the 1st ACM workshop on High performance mobile opportunistic systems (HP-MOSys '12), Paphos, Cyprus, October 2012, pp. 9-14, ACM 2012, ISBN: 978-1-4503-1629-3, DOI: 10.1145/2386980.2386983.

- Vis10. **Radu Ioan Ciobanu**, Ciprian Dobre, Valentin Cristea, "Social aspects to support opportunistic networks in an academic environment", in Proceedings of the 11th international conference on Ad-hoc, Mobile, and Wireless Networks (ADHOC-NOW '12), Belgrade, Serbia, July 2012, pp. 69-82, Springer-Verlag, Berlin, Heidelberg 2012, ISBN: 978-3-642-31637-1, DOI: 10.1007/978-3-642-31638-8_6.
- Vis11. **Radu Ioan Ciobanu**, Ciprian Dobre, Valentin Cristea, Dhiya Al-Jumeily, "Social Aspects for Opportunistic Communication", in Proc. of 11th International Symposium on Parallel and Distributed Computing (ISPDC 2012), Munich, Germany, 25-29 June 2012, pp. 251-258, IEEE 2012, ISBN: 978-1-4673-2599-8, DOI: 10.1109/ISPDC.2012.41, INSPEC Accession Number: 13118518.
- Vis12. **Radu-Ioan Ciobanu**, Ciprian Dobre, Valentin Cristea, "A Data Dissemination Algorithm for Opportunistic Networks", in Proc. of 13th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC '11), Timișoara, Romania, 26-29 Sept. 2011, pp. 299-305, IEEE 2012, ISBN: 978-1-4673-0207-4, DOI: 10.1109/SYNASC.2011.56, INSPEC Accession Number: 12616804.
- Vis13. **Radu-Ioan Ciobanu**, Mihai-Ovidiu Tîrșă, Raluca Lupu, Sonia Stan, Mugurel Ionuț Andreica, "SCONeP: Steganography and Cryptography approach for UDP and ICMP", in Proc. of 10th Roedunet International Conference (RoEduNet), Iași, Romania, June 2011, pp. 1-6, IEEE 2011, ISBN: 978-1-4577-1233-3, ISSN: 2068-1038, DOI: 10.1109/RoEduNet.2011.5993700, INSPEC Accession Number: 12193979.
- Vis14. **Radu Ciobanu**, Ciprian Dobre, "Data Dissemination in Opportunistic Networks", in Proc. of 18th International Conference on Control Systems and Computer Science (CSCS-18), Bucharest, Romania, 2011, pp. 529-536, Politehnica Press 2011, ISSN: 2066-4451.

VI. CONTRACTE ȘI RAPOARTE ȘTIINȚIFICE (P, F)

P – Proiecte de cercetare–dezvoltare–inovare obținute prin competiție, pe bază de contract/grant, în țară/străinătate (Pn – naționale, Pi – internaționale); F – Alte lucrări de cercetare–dezvoltare.

Observație: a se menționa calitatea de responsabil/director sau coautor.

- Pn1. 2015-2017: *DataWay: Real-time Data Processing Platform for Smart Cities: Making sense of Big Data* (Ro: Platformă de Procesare în Timp Real pentru Big Data în Orașe Inteligente), cod: PN-II-RU-TE-2014-4-2731, director: prof. Florin POP, perioadă: octombrie 2015 - septembrie 2017, participant.
- Pn2. 2014-2016: *MobiWay: Mobility Beyond Individualism: an Integrated Platform for Intelligent Transportation Systems of Tomorrow* (Ro: Platformă Integrată pentru Sistemele de Transport Inteligent ale Viitorului), cod: PN-II-PT-PCCA-2013-4, No. 16/2014, director: prof. Ciprian DOBRE, perioadă: octombrie 2014 - iulie 2017, participant.
- Pi1. 2017-2018: *TTOff (Traffic and Data Offloading in Mobile Networks)*, subfinanțat în cadrul proiectului european H2020 MONROE (Measuring Broadband Networks in Europe), director: prof. Ciprian DOBRE, perioadă: martie 2017 - martie 2018, coordonator științific.