

Professor Dr. Eng. Nicolae Țăpuș

List of scientific publications (2000-2016)

● Monographs, book chapters (international publication)

1. B. Ditu, N. Tapus (2013). "Improvements of Instruction Scheduling." In Advances in Intelligent Control Systems and Computer Science, Springer Berlin Heidelberg, pp. 407-421
2. Tapus, Nicolae and Slusanschi, Emil-Ioan and Popescu, Tudor. Distributed Rendering Engine. In Advanced Environments, Tools, and Applications for Cluster Computing (Grigoras, D.; Nicolau, A.; Tourse1, B.; Folliot, B). Springer Berlin Heidelberg, vol. Lecture Notes in Computer Science, no. 2326, ISBN 978-3-540-43672-0, ISSN 0302-9743, Springer-Verlag Berlin Heidelberg, pp. 207--215, December 2002

● Monographs, book chapters (national publications)

1. Boiangiu, Costin-Anton and Tapus, Nicolae. Three Enhanced Preprocessing Algorithms for Automatic Document Analysis and Content Extraction. Chapter in Advances in Engineering: from Theory to Application. Politehnica Press, pp. 21--28, 2012

● Articles in journals and in conference proceedings volumes (ISI indexed)

1. Duta, Cristina-Loredana and Gheorghe, Laura and Tapus, Nicolae. Real Time Collaborative Editing in Mobile Computing Environments. In UPB Scientific Bulletin, Series C. vol. 78, no. 1, pp. 3--16, 2016
2. C.-L.Duta, B.-C. Mocanu, F.-A. Vladescu, L. C. Gheorghe, N. Tapus (2015). "Evaluation Framework for Security and Resource Consumption of Cryptographic Algorithms". Journal of Control Engineering and Applied Informatics 17, no. 3 (2015), pp. 77-87.
3. M.I. Andreica, N.Tapus (2013). "Sequential Algorithms for Constructing an "Out-of-Place" Multidimensional Quad-Tree Index for Answering Exact and Approximate Fixed-Radius Nearest Neighbor Queries". Romanian Journal of Information Science and Technology 16, no. 4 (2013), pp. 304-323.
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5. N. Țăpuș, P.-G. Popescu (2012). "A new entropy upper bound." Applied Mathematics Letters 25, no. 11 (2012), vol. 25, ISSN 0893-9659, pp. 1887-1890
6. C.Grigoras, R. Voicu, N. Tapus, I. Legrand, F. Carminati, L. Betev (2011). "MonALISA-based Grid monitoring and control." The European Physical Journal Plus 126, no. 1 (2011), pp. 1-7.
7. M.U Farooq, N. Tapus (2014). "CEHR: Core enabled hybrid routing protocol for mobile ad hoc networks." Proceedings of the International Conference on In Intelligent Computer Communication and Processing (ICCP2014), IEEE, pp. 349-354
8. G. Lupescu, L. Gheorghe, N. Tapus (2014). "Commodity hardware performance in AES processing." Proceedings of the 13th International Symposium on Parallel and Distributed Computing, IEEE, pp. 82-86.
9. M. Carabas, L. Mogosanu, R. Deaconescu, L. Gheorghe, N.Tapus (2014). "Lightweight display virtualization for mobile devices." Proceedings of the International Workshop on In Secure Internet of Things (SIoT 2014), IEEE, pp. 18-25.
10. M.I Andreica, N. Țăpuș (2014). "Efficient Computation of the Number of Solutions of the Linear Diophantine Equation of Frobenius with Small Coefficients." Proceedings of the Romanian Academy Series a-Mathematics Physics Technical Sciences Information Science 15, no. 3, pp. 310-314.

11. O. A. Mohamad, R. T. Hameed, N. Țăpuș (2015). "Smart Home Security based on optimal wireless sensor network routing protocols." Proceedings of the 7th International Conference on In Electronics, Computers and Artificial Intelligence (ECAI 2015), IEEE, pp. SSS-17.
12. E. M. Mocanu, N. Tapus (2014). "Non-linear prediction over time-based big data application." Proceedings of the International Conference on In Intelligent Computer Communication and Processing (ICCP 2014), IEEE, pp. 405-409.
13. Farooq, Muhammad Umar, N. Tapus (2014). "Multiclass On-demand routing in heterogeneous ad hoc networks." Proceedings of the 10th International Conference on in Communications (COMM 2014), IEEE, pp. 1-4.
14. L. Ghinea, M.I. Andreica, V. Olaru, N. Tapus (2013). "Towards using SCTP as a Data Transport Protocol for Data-Intensive Batch Jobs." In Proceedings of the 19th International Conference on Control Systems and Computer Science, IEEE, pp. 83-90.
15. L. Ghica, B. Ditu, N. Tapus (2013). "Automatic Generation of Architecture Model for Reconfigurable Build Tools." In Proceedings of the 19th International Conference on Control Systems and Computer Science, IEEE, pp. 142-146.
16. A.C. Olteanu, G.D. Oprina, N. Tapus, S. Zeisberg (2013). "Enabling mobile devices for home automation using zigbee." In Proceedings of the 19th International Conference on Control Systems and Computer Science, IEEE, pp. 189-195.
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18. G. Avramescu, M. Bucicoiu, D. Rosner, N. Tapus (2013). "Guidelines for discovering and improving application security." In 2013 19th International Conference on Control Systems and Computer Science, pp. 560-565. IEEE, 2013.
19. M. Bucicoiu, N. Tapus (2013). "Easy attendance: Location-Based authentication for students integrated with moodle." In Proceedings of the 11th Roedunet International Conference on Networking in Education and Research (RoEduNet'13), IEEE, pp. 1-4.
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23. D.O. Rizea, D.S. Tudose, A.C. Olteanu, N. Tapus (2013). "Adaptive query algorithm for location oriented applications." In Proceedings of the 11th Roedunet International Conference on Networking in Education and Research (RoEduNet'13), IEEE, pp. 1-5.
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25. V. Zamfirache, A. C. Olteanu, N. Tapus (2013). "Collaborative learning assistant for android". In Proceedings of the 2013 RoEduNet International Conference 12th Edition Networking in Education and Research, IEEE, pp. 1-6.
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34. I.-I. Pătru, M. Carabaș, L. Gheorghe, Ș.G. Șoriga, N. Țăpuș (2015). Porting Android on Intel-based Embedded Platform, Proceedings of the 14th RoEduNet International Conference - Networking in Education and Research, Septembrie 24-26, Craiova
35. A. Nicolae, L. Gheorghe, M. Carabas, N. Tapuș, C. Duță (2015). LLDP Packet Generator. Proceedings of the 14th RoEduNet International Conference - Networking in Education and Research, Septembrie 24-26, Craiova
36. L. Mogosanu, M.Carabas, C. Condurache, L. Gheorghe, N. Tapus (2015). Evaluating Architecture-Dependent Linux Performance. In Proceedings of the 20th International Conference on Control Systems and Computer Science (Ioan Dumitrache, Adina Magda Florea, Florin Pop, Alexandru Dumitrascu). IEEE, vol. 1, ISBN 978-1-4799-1779-2, May 2015 pp. 499--505
37. S. M.Costea, N. Țăpuș (2015). Solving the Top-K problem for Sequence Counting Using Differential Privacy. Proceedings of the 14th RoEduNet International Conference - Networking in Education and Research, Septembrie 24-26, Craiova
38. S.Stegaru, E. I. Slușanschi, N. Țăpuș (2015). The influence of genetic operators in a Genetic Algorithm used for estimating the energy consumption in a Passive House. Proceedings of the 14th RoEduNet International Conference - Networking in Education and Research, Septembrie 24-26, Craiova
39. A Ciocan, S. Costea, N. Țăpuș (2015). Implementation and Optimization of a Somewhat Homomorphic Encryption Scheme. Proceedings of the 14th RoEduNet International Conference - Networking in Education and Research, Septembrie 24-26, Craiova
40. M. Andreica, A. Grigorean, A. Parvu, N. Tapus (2014). Efficient Evaluation of Hyper-Rectangular Blocks of Update Operations Applied to General Data Structures. In Proceedings of the ACAM : Automation, Computers, Applied Mathematics. July 2014
41. A.Corneliu, N.Țăpuș, A. Iosup (2013) Extending the Capabilities of Mobile Devices for Online Social Applications through Cloud Offloading, CCGrid2013, Proceedings of the 13th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing, 13 – 16 May 2013, Delft, the Netherlands
42. E M. Mocanu, M. Florea, M. I. Andreica, N. Țăpuș (2012). "Cloud Computing - Task Scheduling based on Genetic Algorithms", Proceedings of the IEEE International Systems Conference, Vancouver, Canada, 19-22 March, 2012. (ISBN: 978-1-4673-0748-2)
43. R. Burtica, E.M. Mocanu, M. I. Andreica, N.Țăpuș (2012). "Practical Application and Evaluation of No-SQL Databases in Cloud Computing", Proceedings of the IEEE International Systems Conference, Vancouver, Canada, 19-22 March, 2012. (ISBN: 978-1-4673-0748-2)
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45. E.M. Mocanu, V. Galtier, N.Țăpuș (2012). Generic and fault-tolerant bag-of-tasks framework based on JavaSpace technology Conference: Annual IEEE Systems Conference - SysCon , 2012
46. Voicu, Ramiro and Legrand, Iosif. C. and Newman, Harvey B. and Tapus, Nicolae and Dobre, Ciprian. A distributed service for on demand end to end optical circuits. In arXiv preprint arXiv:1106.5570. 2011

47. Deaconescu, Razvan and Sandu-Popa, Marius and Draghici, Adriana and Tapus, Nicolae. BitTorrent Swarm Analysis through Automation and Enhanced Logging. In *International Journal of Computer Networks & Communications*. vol. 3, no. 1, ISSN 0974 - 9322, pp. 52--65, 2011
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51. Nistor, Adrian and Wei-Ngan, Chin and Tan, Tiow-Seng and Tapus, Nicolae. Optimizing the parallel computation of linear recurrences using compact matrix representations. In *Journal of Parallel and Distributed Computing*. Elsevier, 2009
52. Andreica, Mugurel and Tapus, Nicolae. Efficient data structures for online qos-constrained data transfer scheduling. In *Parallel and Distributed Computing*, ieeexplore.ieee.org, 2008
53. Voicu, Ramiro and Legrand, Iosif. C. and Newman, Harvey B. and Dobre, Ciprian and Tapus, Nicolae. A distributed agent system for dynamic optical path provisioning. In *Proceedings of Intelligent Systems and Agents (ISA)*. 2007

● **Articles in journals and in conference proceedings volumes (indexed in other databases)**

1. Duta, Cristina-Loredana and Gheorghe, Laura and Tapus, Nicolae. Performance Analysis of Real Time Implementations of Voice Encryption Algorithms Using Blackfin Processors. In *International Conference on Information Systems Security and Privacy*. pp. 157--166, 2016
2. Lupescu, Grigore and Slusanschi, Emil-Ioan and Tapus, Nicolae. Extensions over OpenCL for latency reduction and critical applications. In *17th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC) 2015*. IEEE, ISBN 978-1-5090-0461-4, Timisoara, Romania, September 2015
3. Duta, Cristina-Loredana and Gheorghe, Laura and Tapus, Nicolae. Real Time Implementation of MELP Speech Compression Algorithm using Blackfin Processors. In *9th International Symposium on Image and Signal Processing and Analysis (ISPA 2015)*. pp. 252--257, September 2015
4. Carabas, Costin and Patru, Irina-Ioana and Carabas, Mihai and Gheorghe, Laura and Tapus, Nicolae. Error Monitoring for Mobile Operating Systems. In *Complex, Intelligent, and Software Intensive Systems (CISIS), 2015 Ninth International Conference on*. pp. 302--307, July 2015
5. Ciocirlan, Daniel and Tapus, Nicolae and Dragomir, Dan. Solving Hard Problems on Adiabatic Quantum Computers. In *The 20th International Conference on Control Systems and Computer Science (CSCS20-2015)*. May 2015
6. Costea, Sergiu and Tapus, Nicolae. Input Validation for the Laplace Differential Privacy Mechanism. In *The 20th International Conference on Control Systems and Computer Science CSCS20*. May 2015
7. Florea, Iulia Maria and Gheorghe, Laura and Carabas, Mihai and Tapus, Nicolae. Routing Enhancements based on Evolutionary Algorithm. In *11th International Conference on Intelligent Computer Communications and Processing (ICCP 2015)*. pp. 491--497, 2015
8. Duta, Cristina-Loredana and Gheorghe, Laura and Tapus, Nicolae. Analyze OSPF Convergence Time in the Presence of Single and Multiple Failures. In *7th International Conference on Emerging Networks and Systems Intelligence (EMERGING 2015)*. pp. 72--78, 2015
9. Duta, Cristina-Loredana and Gheorghe, Laura and Tapus, Nicolae. Framework for Evaluation and Comparison of Primality Testing Algorithms. In *20th International Conference on Control Systems and Computer Science (CSCS20 2015)*. pp. 483--490, 2015

10. Dragomir, Cosmin and Mogosanu, Lucian and Carabas, Mihai and Deaconescu, Razvan and Tapus, Nicolae. Towards the Property-Based Testing of an L4 Microkernel API. In VECoS'2015 Verification and Evaluation of Computer and Communication Systems. vol. 1431, ISSN 1613-0073, pp. 39 -- 48, 2015
11. Costea, Sergiu and Ghinita, Gabriel and Rughinis, Razvan and Tapus, Nicolae. Reduced Relative Errors for Short Sequence Counting with Differential Privacy. In The 20th International Conference on Control Systems and Computer Science CSCS20. IEEE, pp. 475--482, 2015
12. Usurelu, Catalin-Constantin and Nita, Mihaela-Catalina and Istrate, Roxana and Pop, Florin and Tapus, Nicolae. Spider Mesh Overlay for Task Load Balancing in Cloud Computing. In Intelligent Computer Communication and Processing (ICCP), 2015 IEEE International Conference on. pp. 433--440, 2015
13. Condurache, Cristian and Mogosanu, Lucian and Carabas, Mihai and Gheorghe, Laura and Tapus, Nicolae. Performance Evaluation of In-kernel System Calls. In Engineering of Computer Based Systems (ECBS-EERC), 2015 4th Eastern European Regional Conference on the. pp. 130 -- 133, 2015
14. Trandafir, Ruxandra and Carabas, Mihai and Rughinis, Razvan and Tapus, Nicolae. FirewallPK: Security tool for centralized Access Control List management. In RoEduNet Conference 13th Edition: Networking in Education and Research Joint Event RENAM 8th Conference, 2014. ISSN 2068-1038, pp. 1--6, September 2014
15. Niculaescu, Oana and Carabas, Mihai and Gheorghe, Laura and Rughinis, Razvan and Tapus, Nicolae. Graphical Packet Generator - A solution for automatic discovery of the network topology and packet generation. In RoEduNet Conference 13th Edition: Networking in Education and Research Joint Event RENAM 8th Conference, 2014. ISSN 2068-1038, pp. 1--6, September 2014
16. Farooq, Muhammad Umar and Tapus, Nicolae. CAMT: Core Assisted Multicast Tree for Ad hoc Networks. In Networking in Education and Research, Joint Event 13th RoEduNet & 8th RENAM Conference, Chisinau, Moldova, September 11-13, 2014. September 2014
17. Bucicoiu, Mihai and Mircea, Ghiddeu and Tapus, Nicolae. Secure Cloud Video Streaming Using Tokens. In Roedunet International Conference (RoEduNet). ISSN 2068-1038, September 2014
18. Ruta, Cristian and Carabas, Mihai and Rughinis, Razvan and Tapus, Nicolae. TEMPO: Traffic engineering and management in private organizations. In RoEduNet Conference 13th Edition: Networking in Education and Research Joint Event RENAM 8th Conference, 2014. ISSN 2068-1038, pp. 1--5, September 2014
19. Burada, Andrei and Gheorghe, Laura and Tapus, Nicolae. Portable Implementation of the SPID Algorithm. In 13th RoEduNet International Conference. pp. 53--58, 2014
20. Vasilescu, Mihai and Gheorghe, Laura and Tapus, Nicolae. Practical Malware Analysis based on Sandboxing. In 13th RoEduNet International Conference. pp. 47--52, 2014
21. Olteanu, Alexandru and Tapus, Nicolae. Offloading for mobile devices: A survey. In UPB Scientific Bulletin. October 2013
22. Chiricescu, Serban and Olteanu, Alexandru and Tapus, Nicolae. Interactiunea cu dispozitive mobile pe baza detectiei miscărilor fetei. In RoCHI 2013. September 2013
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24. Olteanu, Alexandru and Alexandru, Iosup and Tapus, Nicolae. Towards a workload model for online social applications: ICPE 2013 work-in-progress paper. In ACM/SPEC International Conference on Performance Engineering. August 2013
25. D. Tudose, L. Gheorghe, N. Țăpuș, (2013). Radio transceiver consumption modeling for multi-hop wireless sensor networks , U.P.B. Sci. Bull., Series C, Vol. 75, Iss. 1, 2013. (ISSN 1454-234x)
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27. Fasui, Alexandru and Olteanu, Alexandru and Tapus, Nicolae. On using grid and distributed computing for mobile applications. In The 2nd International Conference on Systems and Computer Science. August 2013
28. Olteanu, Alexandru and Tudose, Dan and Tapus, Nicolae. Energy-efficient user interaction with an off-grid building. In Systems and Computer Science (ICSCS). 2013

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30. Prejbeanu, Razvan and Olteanu, Alexandru and Tapus, Nicolae. Real time collaboration in cloud for tune-up android. In *The 12th Roedunet International Conference*. January 2013
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34. M. I. Andreica, N. Țăpuș (2012). "Sequential and MapReduce-based Algorithms for Constructing an In-Place Multidimensional Quad-Tree Index for Answering Fixed-Radius Nearest Neighbor Queries", *Acta Universitatis Apulensis - Mathematics-Informatics*, no. 29, pp. 131-151, 2012. (ISSN: 1582-5329)
35. D. Tudose, L. Gheorghe, N. Țăpuș (2012). "Radio Transceiver Consumption Modeling for Multi-hop Wireless Sensor Networks", *UPB Scientific Bulletin, Series C*
36. Burloiu, Călin and Deaconescu, Razvan and Tapus, Nicolae. Design and Implementation of a BitTorrent Tracker Overlay for Swarm Unification. In *7th International Conference on Networking and Services (ICNS 2011)*. ISBN 978-1-61208-133-5, ISSN 2308-4006, pp. 217--212, May 2011
37. Rughinis, Razvan and Gheorghe, Laura and Deaconescu, Razvan and Tapus, Nicolae. Hop-by-hop Inspection Mechanism for Wireless Sensor Networks. In *18th International Conference on Control Systems and Computer Science*. May 2011
38. M.I. Andreica, E.-D. Tirsă, N. Țăpuș (2011). "A Modular Framework for the Development of Peer-to-Peer Applications and Services", *International Journal of Grid and Utility Computing (IJGUC)*, Vol. 2, No. 3, special issue on "Advances in P2P Computing and Applications", pp. 215-233, 2011. (ISSN: 1741-8488 / 1741-847X)
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41. Deaconescu, Razvan and Milescu, George and Tapus, Nicolae. Simulating connection dropouts in BitTorrent environments. In *International Conference on Computer as a Tool (EUROCON)*. IEEE, ISBN 978-1-4244-7486-8, pp. 1--4, April 2011
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47. Rosner, Daniel and Boiangiu, Costin-Anton and Stefanescu, Alexandru and Tapus, Nicolae and Olteanu, Alexandra. Text line processing for high-confidence skew detection in image documents. In 2010 IEEE International Conference on Intelligent Computer Communication and Processing (ICCP). pp. 129--132, 2010
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List of scientific grants and research contracts (2000-2016)

● International projects

1. Trustworthy Wireless Industrial Sensor NETworks – TWISNet, ICT-2009.1.4 - Trustworthy ICT, 2010-2013
2. EGI-InSPRE Enabling Grids for the E-science in Europe, FP7, 2010-2014
3. DATA4WATER - Excellence in Smart Data and Services for Supporting Water Management, H2020-TWINN-2015, 2016-2018
4. KEYSTONE - Semantic keyword-based search on structured data sources, Project COST, November 2013 - November 2017
5. AESOP - A European and South African Partnership on Heritage and Past, International project, Erasmus Mundus, 2013 – 2017
6. LEXNET - Low EMF Networks, International project, FP7, ID. 2342342, November 2012 - September 2015
7. ERRIC - Empowering Romanian Research on Intelligent Information Technologies, International project, FP7, ID. 264207, September 2010 - March 2014
8. EUWB - Coexisting Short Range Radio by Advanced Ultra-Wideband Radio Technology, International project, FP7-ICT-IP, ID. ID. 258066, January 2010 - July 2011
9. SENSEI - Integrating the Physical with the Digital World of the Network of the Future, International project, FP7-ICT-IP, ID. 215923, January 2008 - December 2010
10. P2P-Next - Next generation peer-to-peer content delivery platform, International project, FP7, ID. 216217, January 2008 - December 2011

● National projects

1. SideSTEP – Metode de Planificare pentru Sisteme Distribuite Dinamice: o Abordare Adaptiva (Scheduling Methods for Dynamic Distributed Systems: a self-* approach), International PNII – Cooperări Bilaterale, ID: PN-II-CT-RO-FR-2012-1-0084, Benef.: UEFISCDI, 2013-2014
2. DataWay - Real-time Data Processing Platform for Smart Cities: Making sense of Big Data, CNCS – UEFISCDI, project number PN-II-RU-TE-2014-4-2731, 2015-2017
3. PALIROM - Pachet de aplicații lingvistice pentru limba română, National project, 2008 - 2009