

Theodore Andronikos

Curriculum Vitae

Personal Info

Date & Place of birth: April 3rd, 1968, Athens
Marital status: Married, 2 children
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Affiliation

- Associate Professor, Department of Informatics, Ionian University, Corfu, Greece.
- **Field:** Internet Programming, Parallel Programming and Models of Computation.

Education

1999-2000: Postdoctoral research at the School of Electrical and Computer Engineering, National Technical University of Athens.
1997: Ph.D. in Computer Science, Computer Science Division, School of Electrical and Computer Engineering, National Technical University of Athens.
1992: Degree in Electrical and Computer Engineering (9.09/10), Computer Science Division, School of Electrical and Computer Engineering, National Technical University of Athens (9,09/10).

Scholarships and Awards

1999–2000: I.K.Y. (National Scholarship Foundation) for postdoctoral research at the School of Electrical and Computer Engineering, National Technical University of Athens.
1994-1996: Bodosaki Foundation Grant.
1995: EPISEY Foundation Grant.
1987: I.K.Y. (National Scholarship Foundation) scholarship for admittance to the ECE department (7th).

Dissertations

PhD Thesis: “Automated Parallelization Of Sequential Algorithms”, School of Electrical and Computer Engineering, National Technical University of Athens, 1997.
Supervisor: Prof. George Papakonstantinou.
Diploma Thesis: “Boolean Algebra Methodologies in Artificial Intelligence” School of Electrical and Computer Engineering, National Technical University of Athens, 1992.
Supervisor: Prof. George Papakonstantinou.

Monographs

- (M₁) Michalis Stefanidakis, Ioannis Papadakis, Theodore Andronikos, "OPEN LINKED DATA AND APPLICATIONS: A practical approach to Semantic Web", <http://www.kallipos.gr/>.

Articles in Refereed International Journals

- (J₃₂) Kalliopi Kastampolidou, Christos Papalitsas, Theodore Andronikos, "[The Distributed Kolkata Paise Restaurant Game](#)", Mathematics (MDPI - Open Access Publishing), Games 2022, 13(3), 33. DOI: [10.3390/g13030033](https://doi.org/10.3390/g13030033).
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- (J₃₁) Evangelos Stogiannos, Christos Papalitsas, Theodore Andronikos, "[Experimental Analysis of Quantum Annealers and Hybrid Solvers Using Benchmark Optimization Problems](#)", Mathematics (MDPI - Open Access Publishing), Mathematics 2022, 10(8), 1294. DOI: [10.3390/math10081294](https://doi.org/10.3390/math10081294).
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- (J₃₀) Theodore Andronikos, Michail Stefanidakis, "[A Two-Party Quantum Parliament](#)", (MDPI - Open Access Publishing), Algorithms 2022, 15(2), 62. DOI: [10.3390/a15020062](https://doi.org/10.3390/a15020062).
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- (J₂₉) Michael Ampatzis, Theodore Andronikos, "[QKD Based on Symmetric Entangled Bernstein-Vazirani](#)", Entropy (MDPI - Open Access Publishing), Entropy 2021, 23(7), 870. DOI: [10.3390/e23070870](https://doi.org/10.3390/e23070870).
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- (J₂₈) Theodore Andronikos, Alla Sirokofskich, "[The Connection between the PQ Penny Flip Game and the Dihedral Groups](#)", Mathematics (MDPI - Open Access Publishing), Mathematics 2021, 9(10), 1115. DOI: [10.3390/math9101115](https://doi.org/10.3390/math9101115).
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- (J₂₇) Theodore Andronikos, "[On the Feasibility of Handling Uncertainty in SPARQL Queries in the Case of Sparse Graphs](#)", International Journal of Innovative Research in Computer Science & Technology (IJIRCST, ISSN: 2347 - 5552), Vol. 8, Issue 6, pp. 396-402, November 2020. DOI: [10.21276/ijircst.2020.8.6.5](https://doi.org/10.21276/ijircst.2020.8.6.5).
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- (J₂₆) Theodore Andronikos, "[Complex Matrices for the Approximate Evaluation of Probabilistic Queries](#)", Vol. 10 - No. 11 (Nov. 2020), International Journal of Engineering Research and Applications (IJERA, ISSN: 2248-9622), Vol. 10, Issue 11, (Series-I), pp. 23-30, November 2020. DOI: [10.9790/9622-1011012330](https://doi.org/10.9790/9622-1011012330).

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- (J25) Christos Papalitsas, Theodore Andronikos, Konstantinos Giannakis, Georgia Theocharopoulou, Sofia Fanarioti, "[A OUBO Model for the Traveling Salesman Problem with Time Windows](#)", (MDPI - Open Access Publishing), Algorithms 2019, 12(11), 224. DOI: [10.3390/a12110224](#).
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- (J24) Christos Papalitsas, Panayiotis Karakostas, Theodore Andronikos, "[A Performance Study of the Impact of Different Perturbation Methods on the Efficiency of GVNS for Solving TSP](#)", (MDPI - Open Access Publishing), Applied System Innovation 2019, 2(4), 31. DOI: [10.3390/asi2040031](#).
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- (J23) Christos Papalitsas, Theodore Andronikos, "[Unconventional GVNS for Solving the Garbage Collection Problem with Time Windows](#)", (MDPI - Open Access Publishing), Technologies 2019, 7(3), 61. DOI: [10.3390/technologies7030061](#).
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- (J22) Konstantinos Giannakis, Georgia Theocharopoulou, Christos Papalitsas, Sofia Fanarioti, Theodore Andronikos, "[Quantum Conditional Strategies and Automata for Prisoners' Dilemmata under the EWL Scheme](#)", (MDPI - Open Access Publishing), Applied Sciences 2019, 9(13), 2635. DOI: [10.3390/app9132635](#).
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- (J21) Christos Papalitsas, Panayiotis Karakostas, Theodore Andronikos, Spyros Sioutas, Konstantinos Giannakis, "[Combinatorial GVNS \(General Variable Neighborhood Search\) Optimization for Dynamic Garbage Collection](#)", (MDPI - Open Access Publishing), Algorithms 2018, 11(4), 38. DOI: [10.3390/a11040038](#).
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- (J20) Theodore Andronikos, Alla Sirokofskich, Kalliopi Kastampolidou, Magdalini Varvouzou, Konstantinos Giannakis, Alexandros Singh, "[Finite Automata Capturing Winning Sequences for All Possible Variants of the PO Penny Flip Game](#)", Mathematics, Special Issue Mathematical Game Theory, (MDPI - Open Access Publishing), Mathematics 2018, 6(2), 20. DOI: [10.3390/math6020020](#).
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- (J18) Konstantinos Giannakis, Theodore Andronikos, "[Membrane automata for modeling biomolecular processes](#)", Natural Computing, Springer, Volume 16, Issue 1, pages 151-163, March 2017. DOI: [10.1007/s11047-015-9518-1](#).
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- Zentralblatt Math, Google Scholar, ACM Digital Library, DBLP.
- (J17) Konstantinos Giannakis, Georgia Theodoropoulou, Christos Papalitsas, Theodore Andronikos, Panayiotis Vlamos, "[Associating \$\omega\$ -automata to Path Queries on Webs of Linked Data](#)", Engineering Applications of Artificial Intelligence, Elsevier, Volume 51, pages 115-123, May 2016. DOI: [10.1016/j.engappai.2016.01.013](#).
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- (J15) Konstantinos Giannakis, Theodore Andronikos, "[Use of Buchi automata and randomness for the description of biological processes](#)", International Journal of Scientific World, Science Publishing Corporation, Volume 3, No 1, pages 113-123, 2015. DOI: [10.14419/ijsw.v3i1.4356](#).
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- (J14) Ioannis Riakiotakis, Florina M. Ciorba, Theodore Andronikos, George Papakonstantinou, "[Towards the optimal synchronization granularity for dynamic scheduling of pipelined computations on heterogeneous computing systems](#)", Concurrency and Computation: Practice and Experience, John Wiley & Sons, Volume 24, Issue 18, December 2012, pages 2302-2327.
Impact Factor 2016: 1.133.
Indexed by: ACM Guide to Computing Literature (ACM), COMPENDEX, Inspec (IET), Scopus, DBLP, Web of Science.
- (J13) Ioannis Riakiotakis, Florina M. Ciorba, Theodore Andronikos, George Papakonstantinou, "[Distributed Dynamic Load Balancing for Pipelined Computations on Heterogeneous Systems](#)", Parallel Computing, Elsevier, Volume 37, Issues 10-11, October-November 2011, pages 713-729.
Impact Factor 2016: 1.362, 5-Year Impact Factor: 2.019.
Indexed by: Cambridge Scientific Abstracts, Inspec, ACM Computing Reviews, Zentralblatt MATH, Science Citation Index, Scopus, SCISEARCH, Research Alert.
- (J12) Theodore Andronikos, Florina M. Ciorba, Ioannis Riakiotakis, George Papakonstantinou, Anthony T. Chronopoulos, "[Studying the impact of synchronization frequency on scheduling tasks with dependencies in heterogeneous systems](#)", Performance Evaluation, Elsevier, Volume 67, Issue 12, December 2010, pages 1324-1339.
Impact Factor 2016: 1.613, 5-Year Impact Factor: 1.826.
Indexed by: ISI Alerting Services, ACM Computing Reviews, Cambridge Scientific Abstracts, Inspec, CompuScience, Research Alert, Zentralblatt MATH, Scopus, SCISEARCH.
- (J11) Theodore Andronikos, Vassia Pavlaki, "[Multi Dimensional CTL and Stratified Datalog](#)", International Journal of Computer Science & Information Technology (IJCSIT), Volume 2, Number 1, February 2010, pages 29-53. 10.5121/ijcsit.2010.2103
Indexed by: Google Scholar, Genamics JournalSeek, Inspec (IET).
- (J10) Christos Pavlatos, Alexandros C. Dimopoulos, Andrew Koulouris, Theodore Andronikos, Ioannis Panagopoulos, George Papakonstantinou, "[Efficient reconfigurable embedded parsers](#)", Computer Languages, Systems & Structures, Elsevier, Volume 35, Issue 2, July 2009, pages 196-215.

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- (J9) Theodore Andronikos, Florina M. Ciorba, Panayiotis Theodoropoulos, Dimitrios Kamenopoulos, George Papakonstantinou, "[CRONUS: A platform for parallel code generation based on computational geometry methods](#)", Journal of Systems and Software, Elsevier, Volume 81, Issue 8, August 2008, pages 1389-1405.
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- (J8) Florina M. Ciorba, Ioannis Riakiotakis, Theodore Andronikos, George Papakonstantinou, Anthony T. Chronopoulos, "[Enhancing self-scheduling algorithms via synchronization and weighting](#)", Journal of Parallel and Distributed Computing, Elsevier, Volume 68, Issue 2, February 2008, pages 246-264.
Impact Factor 2016: 1.930, 5-Year Impact Factor: 1.976.
Indexed by: Scopus, ACM Guide to Computing Literature, CompuMath Citation Index, Research Alert, Science Citation Index, SCISEARCH, Zentralblatt MATH.
- (J7) George Papakonstantinou, Ioannis Riakiotakis, Theodore Andronikos, Florina M. Ciorba, Anthony T. Chronopoulos, "Dynamic Scheduling for Dependence Loops on Heterogeneous Clusters", Neural, Parallel & Scientific Computations, vol. 14, no. 4, December 2006, pages 359-384.
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- (J5) Theodore Andronikos, George Koletsos and George Stavrinou, "[An Alternative Tableaux method for Propositional Linear Temporal Logic](#)", The Bulletin of Symbolic Logic, Association for Symbolic Logic, Cambridge University Press, Volume 12, Issue 2, June 2006, pages 322-323.
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- (J4) Irène Guessarian, Eugénie Foustoucos, Theodore Andronikos, Foto Afrati, "[On temporal logic versus datalog](#)", Theoretical Computer Science, Elsevier (Impact Factor: 0.698), Volume 303, Issue 1, 28 June 2003, pages 103-133.
Impact Factor 2016: 0.698, 5-Year Impact Factor: 0.815.
Indexed by: ACM Computing Reviews, Computer Abstracts, Inspec, Mathematical Reviews, Zentralblatt MATH, CompuScience, Scopus.
- (J3) George Papakonstantinou, Ioannis Drositis, Theodore Andronikos, "On the Parallelization of UET/UET-UCT Loops", Neural, Parallel & Scientific Computations, vol. 9, no. 3-4, September & December 2001, pages 279-318.
- (J2) Theodore Andronikos, Nectarios Koziris, George Papakonstantinou, Panayiotis Tsanakas, "[Optimal Scheduling for UET/UET-UCT Generalized n-Dimensional Grid Task Graphs](#)", Journal of Parallel and Distributed Computing, Elsevier, vol. 57, May 1999, pages 140-165.
Impact Factor 2016: 1.930, 5-Year Impact Factor: 1.976.
Indexed by: Scopus, ACM Guide to Computing Literature, CompuMath Citation Index, Research Alert, Science Citation Index, SCISEARCH, Zentralblatt MATH.
- (J1) Theodore Andronikos, Nectarios Koziris, Zacharias Tsiatsoulis, George K. Papakonstantinou, Panayiotis Tsanakas, "[Lower Time and Processor Bounds for Efficient Mapping of Uniform Dependence Algorithms into Systolic Arrays](#)", International Journal of Parallel, Emergent and Distributed Systems (πρώτων Parallel Algorithms and Applications), Taylor & Francis Group,

vol. 10, no. 3-4, pages 177-194, 1997.

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Book Chapters

- (B₁₆) Kalliopi Kastampolidou, Theodore Andronikos, "[Game Theory and Other Unconventional Approaches to Biological Systems](#)". In: Vlamos P., Kotsireas I.S., Tarnanas I. (eds) Handbook of Computational Neurodegeneration, pp. 1-18. Springer, Cham, eBook ISBN 978-3-319-75479-6. DOI: [10.1007/978-3-319-75479-6_23-1](#).
- (B₁₅) Kalliopi Kastampolidou, Theodore Andronikos, "[Microbes and the Games They Play](#)". In: Vlamos P. (eds) GeNeDis 2020. Advances in Experimental Medicine and Biology, vol 1339, pp. 265-271. Springer, ISBN: 978-3-030-78786-8 (Print) 978-3-030-78787-5 (Online), 2022. DOI: [10.1007/978-3-030-78787-5_32](#).
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- (B₁₄) Christos Papalitsas, Kalliopi Kastampolidou, Theodore Andronikos, "[Nature and Quantum-Inspired Procedures – A Short Literature Review](#)". In: Vlamos P. (eds) GeNeDis 2020. Advances in Experimental Medicine and Biology, vol 1138, pp. 129-133. Springer, ISBN: 978-3-030-78774-5 (Print) 978-3-030-78775-2 (Online), 2022. DOI: [10.1007/978-3-030-78775-2_15](#).
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- (B₉) Theodore Andronikos, Alexandros Singh, Konstantinos Giannakis, Spyros Sioutas, "[Computing probabilistic queries in the presence of uncertainty via probabilistic automata](#)", Algorithmic Aspects of Cloud Computing, Third International Workshop, ALGO CLOUD 2017, Vienna, Austria, 5 September, 2017, Revised Selected Papers. Springer Theoretical Computer Science and General Issues, Volume 10739, pp. 106-122, ISBN: 978-3-319-74874-0 (Print) 978-3-319-74875-7 (Online), 2018.
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- (C35) Christos Papalitsas, Theodore Andronikos, Panagiotis Karakostas, "Studying the impact of perturbation methods on the efficiency of GVNS for the ATSP", Proceedings of the 6th International Conference on Variable Neighborhood Search (ICVNS 2018), 4-7 October, Sithonia, Halkidiki, Greece, 2018.
- (C34) Theodore Andronikos, Alexandros Singh, Konstantinos Giannakis, Spyros Sioutas, "Computing probabilistic queries in the presence of uncertainty via probabilistic automata", Proceedings of the 3rd International Workshop on Algorithmic Aspects of Cloud Computing (ALGO CLOUD 2017), 4-8 September, Vienna, Austria, 2017.
- (C33) Konstantinos Giannakis, Alexandros Singh, Kalliopi Kastampolidou, Christos Papalitsas, Theodore Andronikos, "QM automata - A new class of restricted quantum membrane systems", Proceedings of the 2nd World Congress on Genetics, Geriatrics and Neurodegenerative Diseases Research (GeNeDis 2016), 20-23 October, Sparta, Greece, 2016.

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- (C31) Konstantinos Giannakis, Christos Papalitsas, Theodore Andronikos, "Quantum Automata for Infinite Periodic Words", 6th International Conference on Information, Intelligence, Systems and Applications (IISA), 6-8 July, Corfu, Greece, 2015.
- (C30) Christos Papalitsas, Konstantinos Giannakis, Theodore Andronikos, Dimitrios Theotokis, Angelo Sifaleras, "[Initialization methods for the TSP with Time Windows using Variable Neighborhood Search](#)", 6th International Conference on Information, Intelligence, Systems and Applications (IISA), 6-8 July, Corfu, Greece, 2015.
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- (C28) Konstantinos Giannakis, Theodore Andronikos, "Mitochondrial Fusion Through Membrane Automata", Proceedings of the 1st World Congress on Genetics, Geriatrics and Neurodegenerative Diseases Research (GeNeDis 2014), 10-13 April, Corfu, Greece, 2014.
- (C27) Theodore Andronikos, Michalis Stefanidakis, Ioannis Papadakis, "Adding Temporal Dimension to Ontologies via OWL Reification", Proceedings of the 13th Panhellenic Conference on Informatics - PCI 2009 Conference, 10-12 September, Corfu, Greece, IEEE Computer Society, pp. 19-22, 2009.
- (C26) Florina M. Ciorba, Ioannis Riakiotakis, Theodore Andronikos, Anthony T. Chronopoulos, George Papakonstantinou, "Optimal Synchronization Frequency for Dynamic Pipelined Computations on Heterogeneous Systems", IEEE International Conference on Cluster Computing (CLUSTER 2007), Austin, TX USA, September 17-20, 2007.
- (C25) Florina M. Ciorba, Ioannis Riakiotakis, Theodore Andronikos, Anthony T. Chronopoulos, George Papakonstantinou, "Studying the impact of synchronization frequency on scheduling tasks with dependencies in heterogeneous systems", 16th International Conference on Parallel Architectures and Compilation Techniques (PACT'07), Brasov, Romania, September 15-19, 2007.
- (C24) Florina M. Ciorba, Ioannis Riakiotakis, Theodore Andronikos, George Papakonstantinou, "Self-Adapting Scheduling for Tasks with Dependencies in Stochastic Environments", Proceedings of the 5th International Workshop on Algorithms, Models and Tools for Parallel Computing on Heterogeneous Networks (HeteroPar'06), September 28, 2006, Barcelona, Spain.
- (C23) Andrew Koulouris, Theodore Andronikos, Christos Pavlatos, Alexandros C. Dimopoulos, Ioannis Panagopoulos, George Papakonstantinou, "[Efficient Signal Processing using Syntactic Pattern Recognition Methods](#)", Proceedings of the IASTED Conference on Signal and Image Processing (SIP 2006), August 14-16, 2006, Honolulu, Hawaii, USA.
- (C22) Florina M. Ciorba, Theodore Andronikos, Ioannis Riakiotakis, Anthony T. Chronopoulos, George Papakonstantinou, "Dynamic Multi Phase Scheduling for Heterogeneous Clusters", Proceedings of the 20th IEEE International Parallel & Distributed Processing Symposium (IPDPS 2006), April 25-29, 2006, Rhodes Island, Greece.
- (C21) Theodore Andronikos, George Koletsos, George Stavrinou, "An Alternative Tableaux method for Propositional Linear Temporal Logic", Proceedings of the Logic Colloquium 2005 (LC 2005), Athens, Greece.
- (C20) Florina M. Ciorba, Theodore Andronikos, Ioannis Drositis, George Papakonstantinou, Panayiotis Tsanakas, "Reducing the Communication Cost via Chain Pattern Scheduling",

- Proceedings of the 4th IEEE International Symposium on Network Computing and Applications (NCA 2005), pp. 186-193, July 27-29, 2005, Cambridge, MA USA.
- (C₁₉) Theodore Andronikos, Florina M. Ciorba, Panayiotis Theodoropoulos, Dimitris Kamenopoulos, George Papakonstantinou, "[Code generation for General Loops using methods from Computational Geometry](#)", Proceedings of the 16th IASTED Parallel and Distributed Computing and Systems Conference (PCDS 2004), pp. 348-353, Cambridge, MA USA, November 9-11, 2004.
- (C₁₈) Florina M. Ciorba, Theodore Andronikos, Dimitris Kamenopoulos, Panayiotis Theodoropoulos, George Papakonstantinou, "Simple Code Generation for special UDLs", Proceedings of the 1st Balcan Conference on Informatics (BCI 2003), pp. 466-475, Thessaloniki, Greece, November 2003.
- (C₁₇) Foto Afrati, Theodore Andronikos, Vassia Pavlaki, Eugenie Foustoucos, Irène Guessarian, "[From CTL to Datalog](#)", Principles of Computing and Knowledge: Paris C. Kanellakis Memorial Workshop (PCK50), pp. 72-85, San Diego, June 2003.
- (C₁₆) Theodore Andronikos, Marios Kalathas, Florina M. Ciorba, Panayiotis Theodoropoulos, George Papakonstantinou, Panayiotis Tsanakas, "[Scheduling nested loops with the least number of processors](#)", Proceedings of the 21st IASTED International Conference on Applied Informatics, pp. 713-718, Innsbruck, Austria, February 2003.
- (C₁₅) Ioannis Drositis, Theodore Andronikos, Marios Kalathas, George Papakonstantinou, Nectarios Koziris, "Optimal Loop Parallelization in n-Dimensional Index Spaces", Proceedings of 2002 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA 2002), pp. 2197-2201, Las Vegas, Nevada, USA, 2002.
- (C₁₄) Ioannis Drositis, Theodore Andronikos, George Manis, George Papakonstantinou, Nectarios Koziris, "Geometric Scheduling of 2-D UET/UET-UCT Uniform Dependence Loops", Proceedings of the 10th Euromicro Workshop on Parallel, Distributed and Network-based Processing (PDP 2002), IEEE Press, pp. 343-350, Gran Canaria Island, Spain, 2002.
- (C₁₃) Foto Afrati, Theodore Andronikos, Eugenie Foustoucos, Irène Guessarian, "CTL et al. vs. Monadic Inf-Datalog", International Workshop on Logic and Complexity in Computer Science (LCCS 2001), pp. 17-36, Créteil, France, September 2001.
- (C₁₂) Ioannis Drositis, Theodore Andronikos, Aggelos Kokorogiannis, George Papakonstantinou, Nectarios Koziris, "Geometric Scheduling of 2-D Uniform Dependence Loops", Proceedings of the 2001 IEEE International Conference on Parallel and Distributed Systems (ICPADS 2001), IEEE Press, pp. 259-264, Korea, 2001.
- (C₁₁) Theodore Andronikos, Nectarios Koziris, George Papakonstantinou, Panayiotis Tsanakas, "Optimal Scheduling for UET-UCT Grids Into Fixed Number of Processors", Proceedings of 8th Euromicro Workshop on Parallel and Distributed Processing (PDP 2000), IEEE Press, pp. 237-243, Rhodes, Greece, 2000.
- (C₁₀) Andrew Koulouris, Nectarios Koziris, Theodore Andronikos, George Papakonstantinou, Panayiotis Tsanakas, "A Parallel Parsing VLSI Architecture for Arbitrary Context Free Grammars", Proceedings of the 1998 IEEE International Conference on Parallel and Distributed Systems (ICPADS 98), IEEE Press, pp. 783-790, Taiwan, ROC, Dec. 1998.
- (C₉) Andrew Koulouris, Nectarios Koziris, Theodore Andronikos, George Papakonstantinou, Panayiotis Tsanakas, "Automatic Generation of a VLSI Parallel Architecture for QRS Detection", Proceedings of the IX European Signal Processing Conference (EUSIPCO-98), vol. III, pp. 1597-1600, Rhodes, Greece, Sept. 1998.
- (C₈) Nectarios Koziris, George Economakos, Theodore Andronikos, George Papakonstantinou, Panayiotis Tsanakas, "Optimal Automatic Hardware Synthesis For Signal Processing Algorithms", Proceedings of 13th IEEE International Conference on Digital Signal Processing (DSP 97), IEEE Press, pp. 1011-1014, Santorini, Greece, 1997.

- (C7) Nectarios Koziris, Theodore Andronikos, George Economakos, George Papakonstantinou, Panayiotis Tsanakas, "Automatic Hardware Synthesis of Nested Loops using UET Grids and VHDL", Proceedings of the International Conference on High Performance Computing and Networking (HPCN 97), Vienna, Austria, 1997.
- (C6) Theodore Andronikos, Nectarios Koziris, George Papakonstantinou, Panayiotis Tsanakas, "Optimal Scheduling for UET-UCT Generalized n-Dimensional Grid Task Graphs", Proceedings of the 11th IEEE/ACM International Parallel Processing Symposium (IPPS 97), IEEE Press, pp. 146-151, Geneva, Switzerland, 1997.
- (C5) Foto Afrati, Theodore Andronikos, Theodore Kavalieros, "On the Expressiveness of Query Languages with Linear Constraints; Capturing Desirable Spatial Properties", 2nd International CONTESSA Workshop on Constraint Databases (CDB '97), Delphi, Greece, 1997.
- (C4) Theodore Andronikos, George Papakonstantinou, Panayiotis Tsanakas, "Optimal Scheduling of Uniform Dependence Loops in Polynomial Time", 2nd ECPD International Conference on Advance Robotics, Intelligent Automation and Active Systems, pp. 605-610, Vienna, Austria, 1996.
- (C3) Foto Afrati, Theodore Andronikos, Theodore Kavalieros, "On the Expressiveness of First-Order Constraint Languages", 1st International CONTESSA Workshop on Constraint Databases, Germany, 1995.
- (C2) Theodore Andronikos, Nectarios Koziris, Zacharias Tsiatsoulis, George Papakonstantinou, Panayiotis Tsanakas, "An Efficient Algorithm for the Optimal Linear Schedule of Uniform Dependence Algorithms", Proceedings of the 1st ECPD International Conference on Advanced Robotics and Intelligent Automation, pp. 140-145, Athens, 1995.
- (C1) Dimitris Papadias, Theodore Andronikos, "Relation-Based Information Processing with Symbolic Spatial Images", Proceedings of the International Workshop on Advanced Research in Geographic Information Systems, IGIS94, Ascona, Switzerland, 1994.

Articles in Refereed Hellenic Conferences

- (HC9) Christos Papalitsas, Panayiotis Karakostas, Konstantinos Giannakis, Angelo Sifaleras, Theodore Andronikos, "Initialization methods for the TSP with Time Windows using qGVNS", Proceedings of the 6th International Symposium & 28th National Conference on Operational Research (HELORS2017), 8-10 June, Thessaloniki, Greece, 2017.
- (HC8) Florina M. Ciorba, Theodore Andronikos, George Papakonstantinou, "Adaptive Cyclic Scheduling of Nested Loops", Proceedings of the 7th Hellenic European Conference on Computer Mathematics and its Applications (HERCMA 2005).
- (HC7) Theodore Andronikos, Marios Kalathas, Florina M. Ciorba, Panayiotis Theodoropoulos, George Papakonstantinou, "An Efficient Scheduling of Uniform Dependence Loops", Proceedings of the 6th Hellenic European Conference on Computer Mathematics and its Applications (HERCMA 2003).
- (HC6) Theodore Andronikos, Petros Potikas, Stathis Zachos, "A Distributed Temporal Logic Framework for the Verification and Synthesis of Reactive Systems", Proceedings of the 8th Hellenic Conference on Informatics, vol. II, pp. 1-9, Cyprus, November 2001.
- (HC5) Ioannis Drositis, Theodore Andronikos, Aneta Alexandridi, George Papakonstantinou, Nectarios Koziris, "Geometric Pattern Prediction and Scheduling of Uniform Dependence Loops", Proceedings of the 5th Hellenic European Conference on Computer Mathematics and its Applications (HERCMA 2001).
- (HC4) Theodore Andronikos, Stathis Zachos, "A Modal Logic Formalism for Scheduling Dags", Proceedings of the 7th Hellenic Conference on Informatics, pp. II.1-II.8, Ioannina, Greece, August 1999.

- (HC₃) Foto Afrati, Eugenie Foustoucos, Theodore Andronikos, "Datalog Trees and their Automata", Proceedings of the 2nd Panhellenic Logic Symposium, Delphi, Greece, July 1999.
- (HC₂) Alexandros Pappas, Nectarios Koziris, Theodore Andronikos, George Papakonstantinou, Panayiotis Tsanakas, "LoopDep: An Integrated Environment for Nested Loop Parallelization using PVM", Proceedings of the 6th Hellenic Conference on Informatics, Greece, 1997.
- (HC₁) Foto Afrati, Theodore Andronikos, Theodore Kavalieros, George Stavrinou, "Linear vs. Polynomial Queries", Proceedings of the 6th Hellenic Conference on Informatics, Greece, 1997.

Programming Language

- [Qumin](#): A minimalistic quantum programming language.

Invited Talks

- (IT₃) Theodore Andronikos, "[Quantum Computers and Quantum Computation](#)", Cafe Scientifique, 23 January 2018..
- (IT₂) Theodore Andronikos, "Quantum Computers", 7th Conference on Informatics in Education, University of Piraeus, 9-11 October 2015.
- (IT₁) Theodore Andronikos, "Using Information Technologies to organize and process historical data", 1st Conference on Historical Research and History Teaching, Piraeus, November 2014.

Citations

- 573 citations, h-index: 13, i10-index: 20 according to "[Google Scholar](#)".
- 562 citations, 8,070 reads, 22.92 RGScore according to "[Research Gate](#)".

Research Interests

- Head of the Research Group [QUIT - Quantum and Unconventional Computing](#) and member of the [Bio Informatics and Human Electro - Physiology Lab - BiHELab](#) of the Department of Informatics, Ionian University, Corfu, Greece.
- Quantum & unconventional computation.
- Parallel programming.
- Internet programming.
- Query languages and inference engines for ontologies and the semantic the web.
- Probabilistic automata and automata on infinite objects.
- Dynamic scheduling algorithms for parallel and distributed systems.
- Temporal logics for automated synthesis and verification of reactive systems.

Teaching Experience

- 2015 – Today** Department of Informatics, Ionian University, "[Postgraduate Diploma of Specialization in Informatics](#)"
Master Course:
- Operating Systems
- 2009 – Today** Departments of History & Informatics, Ionian University
Master Course:
- [The use of new technologies in historical research](#)
- 2009 – 2011** Department of Informatics, Ionian University
Master Courses:

- 18/4/2007 – Today

Department of Informatics, Ionian University

Courses:

 - Programming Principles
 - Artificial Intelligence
 - Introduction to Programming
 - Introduction to Computer Science
 - Computer Programming
 - Algorithms
 - Introduction to the Theory of Computation
 - Introduction to Quantum and DNA Computing
 - Compilers
 - Logic Programming
- 9/2006 – 17/4/2007

Department of Informatics, Ionian University (Adjunct Lecturer)

Courses:

 - Introduction to Programming
 - Introduction to Computer Science
 - Computer Programming
 - Compilers
- 10/2004 – 8/2006

Department of Computer Science and Biomedical Informatics of the University of Central Greece (Adjunct Assistant Professor)

Courses:

 - Introduction to Programming
 - Object-Oriented Programming
 - Algorithms and Complexity
- 10/2004– 8/2006

Department of Information & Communications Systems Engineering, School Of Engineering, University of the Aegean (Adjunct Lecturer)

Courses:

 - Programming Methodologies and Languages I
 - Programming Methodologies and Languages II
 - Software Engineering
- 3/2004 – 8/2004

Department of Mathematics, University of Athens (Adjunct Lecturer)

Courses:

 - Programming Languages
- 2/2001– 8/2004

School of Applied Mathematics and Physics, National Technical University of Athens(Adjunct Lecturer)

Courses:

 - Introduction to Programming
 - Program Design and Development
 - Programming Techniques
 - Programming Languages
 - Introduction to Computer Science
- 9/2001 – 7/2003

Graduate Program in Logic, Algorithms and Computation (MPLA)

Master Courses:

 - Algorithms and Complexity
 - Computational Complexity
- 1999– 2000

School of Electrical and Computer Engineering, National Technical University of Athens in collaboration with Prof. F. Afrati

Graduate Course:

 - Temporal Logics and Automata on Infinite Objects

Participation in Research Programmes

- 2016 - Today** Scientific advisor and coordinator of the Department of Informatics for the program: "On the Job Training of the Ionian University" (Greek Ministry of Education, Research and Religious Affairs, MIS 5000647).
- 2011 – 2015** Scientific advisor and coordinator for the program: "On the Job Training of the Informatics Department of the Ionian University" (Greek Ministry of Education, Research and Religious Affairs, MIS 346795).
- 2014 – 2015** ADRIATinn - a sustainable, cross-border ecosystem aiming to foster and boost SMEs R&D capacities and networking.
- 2013 – 2014** PACiNNO - Platform for trans-Academic Cooperation in Innovation.
- 2011 – 2013** Scientific advisor and coordinator for the program: "On the Job Training of the Informatics Department of the Ionian University" (Ministry of Education, Lifelong Learning and Religious Affairs).
- 2007 – 2009** Basic research program "Hardware/Software Co-design using High Level Synthesis Techniques, with focus on Pattern Recognition and Artificial Intelligence Applications", PENED - 2003 Program for the Support of Research.
- 2005 – 2007** Basic research program "PYTHAGORAS II - Aid of Research Teams in the Universities", in the frame of the "Operational Program Education and Initial Professional Training (E.P.E.A.E.K. II)" program of the Ministry of Education, Lifelong Learning and Religious Affairs. The field of research was Automatic Mapping of Algorithms onto Embedded Systems.
- 2000 – 2002** Basic Research Program «Archimedes» entitled «System Verification & Synthesis using Temporal Logics and Automata».
- 2000 – 2002** Basic Research Program «Archimedes» entitled «Mathematical Logic Techniques in Programming».
- 1999 – 2001** Research Program «AGENDA-II: An High Level Meta-Compiling environment for High Performance Hardware», PENED 99 ED 521.
- 1996 – 1998** Research Program « Automated Parallelization Of Sequential Programs», PENED 1451.

Guest Editor in Special Issues of International Journals

- 2021: Special Issue "[Quantum, Molecular and Unconventional Computing](#)" in [Mathematics](#) (ISSN 2227-7390), Special Issue's Guest Editor.
- 2017: Special Issue "[Computational Aspects Related to Unconventional, Bio-Inspired and Quantum Methods](#)" in [Computation](#) (ISSN 2079-3197), Special Issue's Guest Editor.

Organization & Participation in Conference Programme Committees

- 2020: [GeNeDis 2020](#) - 4th World Congress on Genetics, Geriatrics and Neurodegenerative Diseases Research, 8-11 October 2020, Heraklion, Crete, Greece. Μέλος Επιστημονικής Επιτροπής.
- 2018: [GeNeDis 2018](#) - 3rd World Congress on Genetics, Geriatrics and Neurodegenerative Diseases Research, 25-28 October 2018, Toronto, Canada. Member of the Organizing Committee.
- 2016: [NUBACoM 2016](#) - Natural, Unconventional, and Bio-inspired Algorithms and Computation Methods Workshop, 21 October 2016, Sparta, Greece (special side track programme)

- at GeNeDis 2016). Organizer.
- 2016: [GeNeDis 2016](#) - 2nd World Congress on Geriatrics and Neurodegenerative Disease Research, 20-23 October 2016, Sparta, Greece. Member of the Organizing Committee.
- 2009: PCI 2009 - 13th Pan-Hellenic Conference on Informatics, 10-12 Sep. 2009, Corfu, Greece. Member of the Organizing Committee.
- 6th International Conference on Database Theory (ICDT'97), Delphi, Greece, 1997. Member of the Organizing Committee.

Referee in International Journals and Conferences

- IEEE Access (IEEE)
- Algorithms (MDPI)
- Applied Sciences (MDPI)
- Axioms (MDPI)
- Electronics (MDPI)
- Entropy (MDPI)
- Information (MDPI)
- Mathematics (MDPI)
- Symmetry (MDPI)
- FCT 2019: 22nd International Symposium on Fundamentals of Computation Theory
- FONDECYT Chilean National Science and Technology Commission
- Computers & Electrical Engineering (Elsevier)
- International Journal of Pattern Recognition and Artificial Intelligence (World Scientific Publishing)
- IEEE Transactions on Instrumentation & Measurement (IEEE)
- Parallel Computing (Elsevier)
- Formal Methods in System Design (Elsevier)
- Journal of Systems and Software (Elsevier)
- The Journal of Supercomputing (Springer)
- Euro-Par 2002
- 11th IEEE International Parallel Processing Symposium (IPPS97)
- 8th, 13th Pan-Hellenic Conference on Informatics

Thesis and Dissertation Supervision

- Κωνσταντίνος Γιαννάκης. Διδακτορική Διατριβή: «Infinite and Standard Computation with Unconventional and Quantum Methods Using Automata - Απειρος και Κλασικός Υπολογισμός με Μη Συμβατικές και Κβαντικές Μεθόδους Χρησιμοποιώντας Αυτόματα», Τμήμα Πληροφορικής, Ιόνιο Πανεπιστήμιο, Ιούλιος 2016.
Επιβλέπων: Θεόδωρος Ανδρόνικος, Ιούλιος 2016.
- Βασίλειος Λαπατάς. Διδακτορική Διατριβή: «The Web: Data Integration and Cutting Edge Applications», Τμήμα Πληροφορικής, Ιόνιο Πανεπιστήμιο, Ιανουάριος 2016.
Μέλος της επταμελούς εξεταστικής επιτροπής.
- Δημήτριος Καμενόπουλος. Διδακτορική Διατριβή: «Ποιότητα Υπηρεσίας στο Υπολογιστικό Πλέγμα», Σχολή Ηλεκτρολόγων Μηχανικών και Μηχανικών Υπολογιστών, Εθνικό Μετσόβιο Πολυτεχνείο, Ιούλιος 2009.
Μέλος της επταμελούς εξεταστικής επιτροπής.
- Μαρίνος Σαμψών. Διδακτορική Διατριβή: «Ελαχιστοποίηση Εκφράσεων Αποκλειστικού Ή - Κβαντικοί Αλγόριθμοι», Σχολή Ηλεκτρολόγων Μηχανικών και Μηχανικών Υπολογιστών, Εθνικό Μετσόβιο Πολυτεχνείο, Ιούλιος 2009.

- Μέλος της επταμελούς εξεταστικής επιτροπής.
Δημήτριος Ε. Βουδούρης. Διδακτορική Διατριβή: «Ελαχιστοποίηση Εκφράσεων Αποκλειστικού Ή», Σχολή Ηλεκτρολόγων Μηχανικών και Μηχανικών Υπολογιστών, Εθνικό Μετσόβιο Πολυτεχνείο, Απρίλιος 2008.
Μέλος της επταμελούς εξεταστικής επιτροπής.
 - Florina M. Ciorba. Διδακτορική Διατριβή: "Algorithm Design for the Parallelization of Nested Loops", Σχολή Ηλεκτρολόγων Μηχανικών και Μηχανικών Υπολογιστών, Εθνικό Μετσόβιο Πολυτεχνείο, Φεβρουάριος 2008.
Επιβλέπων: Γεώργιος Παπακωνσταντίνου.
 - Χρήστος Γ. Παυλάτος. Διδακτορική Διατριβή: «Αυτοματοποίηση Συσχεδίασης Υλικού/Λογισμικού», Σχολή Ηλεκτρολόγων Μηχανικών και Μηχανικών Υπολογιστών, Εθνικό Μετσόβιο Πολυτεχνείο, 2007.
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- Παντελής Κεχαγιάς. Πτυχιακή Εργασία: «Κβαντικές Πύλες», Τμήμα Πληροφορικής, Ιόνιο Πανεπιστήμιο.
Επιβλέπων: Θεόδωρος Ανδρόνικος, Σεπτέμβριος 2015.
 - Αναστάσιος Λαφαζάνης. Πτυχιακή Εργασία: «Τύποι Αυτομάτων στη Θεωρία Υπολογισμού», Τμήμα Πληροφορικής, Ιόνιο Πανεπιστήμιο.
Επιβλέπων: Θεόδωρος Ανδρόνικος, Φεβρουάριος 2015.
 - Αντώνιος Κοντάκης. Πτυχιακή Εργασία: «Κβαντικός Υπολογισμός - Παρουσίαση και Ανάλυση Κβαντικών Πυλών», Τμήμα Πληροφορικής, Ιόνιο Πανεπιστήμιο.
Επιβλέπων: Θεόδωρος Ανδρόνικος, Φεβρουάριος 2015.
 - Γκρίτζαλης Σπύρος. Πτυχιακή Εργασία: «Κβαντικά αυτόματα», Τμήμα Πληροφορικής, Ιόνιο Πανεπιστήμιο.
Επιβλέπων: Θεόδωρος Ανδρόνικος, Σεπτέμβριος 2014.
 - Χρήστος Αρχοντής. Πτυχιακή Εργασία: «Εισαγωγή στη χρονική λογική», Τμήμα Πληροφορικής, Ιόνιο Πανεπιστήμιο.
Επιβλέπων: Θεόδωρος Ανδρόνικος, Σεπτέμβριος 2012.
 - Νικολέτα Τρύφωνα. Πτυχιακή Εργασία: «Μοντέρνοι Αλγόριθμοι Ανάλυσης Προγραμμάτων Java», Τμήμα Πληροφορικής, Ιόνιο Πανεπιστήμιο.
Επιβλέπων: Θεόδωρος Ανδρόνικος, Ιούνιος 2012.
 - Κωνσταντίνος Γιαννάκης. Πτυχιακή Εργασία: «Ειδικά θέματα Θεωρίας Υπολογισμού - Buchi αυτόματα και λογική δεύτερης τάξης», Τμήμα Πληροφορικής, Ιόνιο Πανεπιστήμιο.
Επιβλέπων: Θεόδωρος Ανδρόνικος, Σεπτέμβριος 2011.
 - Χρήστος Παπαλίτσας. Πτυχιακή Εργασία: «Εισαγωγή στον Κβαντικό Υπολογισμό», Τμήμα Πληροφορικής, Ιόνιο Πανεπιστήμιο.
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 - Βίκη Καλκανίδη. Πτυχιακή Εργασία: «Υλοποίηση αλγορίθμων απόφασης για προτασιακές τροπικές λογικές», Τμήμα Πληροφορικής, Ιόνιο Πανεπιστήμιο.
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 - Σταματία Γκοζντάρη. Διπλωματική Εργασία: «Υλοποίηση και Συγκριτική Μελέτη Δυναμικών Αλγορίθμων Χρονοδρομολόγησης για Ετερογενή Συστήματα», Τμήμα Μηχανικών Πληροφοριακών και Επικοινωνιακών Συστημάτων, Πανεπιστήμιο Αιγαίου.
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 - Ευαγγελία Γαβαθά. Πτυχιακή Εργασία: «Χρωματισμός ακμών σε γραφήματα», Μεταπτυχιακό Πρόγραμμα Λογικής & Αλγορίθμων.

- Επιβλέποντες: Θεόδωρος Ανδρόνικος & Ευστάθιος Ζάχος, Δεκέμβριος 2004.
Έλενα Κοτελίδα. Πτυχιακή Εργασία: «Το δίκτυο ως γράφος», Μεταπτυχιακό Πρόγραμμα Λογικής & Αλγορίθμων.
- Επιβλέποντες: Θεόδωρος Ανδρόνικος & Ευστάθιος Ζάχος, Δεκέμβριος 2004.
Χρήστος Τσιρώνης. Πτυχιακή Εργασία: «Arthur-Merlin Games & Interactive Proof Systems», Μεταπτυχιακό Πρόγραμμα Λογικής & Αλγορίθμων.
- Επιβλέποντες: Θεόδωρος Ανδρόνικος & Ευστάθιος Ζάχος, Δεκέμβριος 2004.
Ιωάννης Δροσίτης. Διδακτορική Διατριβή: «Εφαρμογή Γεωμετρικών Μεθόδων στην Παραλληλοποίηση Φωλιασμένων Βρόγχων», Σχολή Ηλεκτρολόγων Μηχανικών και Μηχανικών Υπολογιστών, Εθνικό Μετσόβιο Πολυτεχνείο, Μάιος 2002.
- Επιβλέπων: Γεώργιος Παπακωνσταντίνου.
Βίκτωρ Κυρίτσης. Διπλωματική Εργασία: «Θεμελίωση-Σημασιολογία των Χρονικών Λογικών στα Υπολογιστικά Συστήματα», Εθνικό Μετσόβιο Πολυτεχνείο, Σχολή Ηλεκτρολόγων Μηχανικών και Μηχανικών Υπολογιστών.
- Επιβλέπων: Φώτω Αφράτη, Ιούνιος 2001.

Positions in Academic Committees

- Chairman of the Research Ethics Committee of the Ionian University (10/10/2018 - 9/10/2021).
- Member of the General Assembly of the Hellenic Foundation for Research and Innovation representing Ionian University (2018 - today).

Reviewer

- IEEE Access (IEEE)
- Applied Sciences (MDPI)
- Electronics (MDPI)
- Mathematics (MDPI)
- Symmetry (MDPI)
- FCT 2019: 22nd International Symposium on Fundamentals of Computation Theory
- FONDECYT Chilean National Science and Technology Commission
- Computers & Electrical Engineering (Elsevier)
- International Journal of Pattern Recognition and Artificial Intelligence (World Scientific Publishing)
- IEEE Transactions on Instrumentation & Measurement (IEEE)
- Parallel Computing (Elsevier)
- Formal Methods in System Design (Elsevier)
- Journal of Systems and Software (Elsevier)
- The Journal of Supercomputing (Springer)
- Euro-Par 2002
- 11th IEEE International Parallel Processing Symposium (IPPS97)
- 8th, 13th Pan-Hellenic Conference on Informatics

Participation in Scientific Unions

- Member of the [Technical Chamber of Greece](#)

Languages

- CERTIFICATE of PROFICIENCY in ENGLISH - University of Cambridge

