Dr. Konstantinos E. Giannakis

BSc, MSc, PhD
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Education

- **Dept. of Informatics, Ionian University** — Corfu, Greece
  PhD — *2013 - 2016*
  - *Infinite and Standard Computation with Unconventional and Quantum Methods Using Automata*
  - Supervisor: Dr. Theodore Andronikos, Assistant Professor, Dept. of Informatics, Ionian University
  - Grade: *Excellent* (top grade)

- **Dept. of Informatics, Ionian University** — Corfu, Greece
  MSc — *2011 - 2013*
  - Grade: *9.72/10*
  - MSc thesis: *Probabilistic Computation and non-terminating systems*

- **Dept. of Informatics, Ionian University** — Corfu, Greece
  BSc — *2007 - 2011*
  - Grade: *7.22/10*
  - BSc thesis: *Specialized issues in Computation Theory: Büchi automata and 2nd-order Logic*

- **1st High School** — Edessa, Greece
  Secondary Education — *2004 - 2007*
  - Grade: *18.2/10*
  - With Honours

Research Interests

Theory of Computation, Algorithms, Automata Theory, Quantum and Unconventional Computation, Probabilistic models of Computation and Logic, Graph querying mechanisms and Semantic Web

Participation in Funded Projects and Scholarships

- 2018 - 2019 (Duration: 15 months)
  - Principal Investigator and author of the funded proposal "Investigating alternative computational methods and their use in computational problems related to optimization and game theory" (72.100 Euros)
    http://di.ionio.gr/alcomopt/

- 2012 - 2015
  - Development team of the project "Buildings, Culture and Environment in a Virtual World"

- 2014 - 2015
  - Development team of the project "Open Academic Courses"

Professional Experience

- 2017 - 2018   Military Service in the Research and Informatics Office as an Analyst-Programmer
- 2015 - 2016   Secretariat, Dept. of Foreign Languages, Translation and Interpreting, Ionian University

- – *IT support and office duties.*

- 2013 - 2015   Library, Ionian University

  - – *IT support and library duties.*

- 2011   Summer Internship

  - – *Internship in the technical Dept. of OTE (Greek Telecommunications Organization).*

Teaching experience

- Winter semester 2016-17

  - – *Co-teaching the course "Neurobiology and Membrane Systems modelling", Postgraduate Studies-MSc in Bioinformatics, Dept. of Informatics, Ionian University.*

- Winter semester 2015-16, 2016-17

  - – *Assisting in the conducting of the lab for the course "Introduction to Molecular and Quantum Computation", Dept. of Informatics, Ionian University.*

- Spring semester 2013-14, 2014-15

  - – *Conducting of the lab for the course "Computer programming", Dept. of Informatics, Ionian University.*

- Winter semester 2013-14, 2014-15, 2015-16

  - – *Conducting of the lab for the course "Introduction in Programming", Dept. of Informatics, Ionian University.*

- Spring semester 2011-12, 2012-13, 2013-14, 2014-15, 2015-16

  - – *Conducting of tutorial lessons for the courses "Algorithms and Complexity" and "Theory of Computation", Dept. of Informatics, Ionian University.*

- Spring semester 2011-12

  - – *Conducting of the labs for the course "Virtual Reality", Dept. of Informatics, Ionian University.*
  - – *Assistance for the conducting of the course "Social and Cooperative Systems", Dept. of Informatics, Ionian University.*

- Winter semester 2011-12

  - – *Conducting of the labs for the courses "Computer Graphics" and "Videogames", Dept. of Informatics, Ionian University.*

Theses supervision and co-supervision

- Konstantinos Skiadopoulos. PhD Thesis: "Information dissemination and dominating sets on wireless sensor networks", Dept. of Informatics, Ionian University. Unofficial co-supervisor (official supervisor: Associate Prof. Konstantinos Oikonomou), 2017-19.

- Sofia Tsepeneka. MSc Thesis: "Time perception in the prism of neuroscience: Theoretical models and applications", Dept. of Informatics, Ionian University. Supervising Committee, 2017-18.

- Katerina Gialopsou. MSc Thesis: "Functional plasticity in the aging brain", Dept. of Informatics, Ionian University. Supervising Committee, 2017-18.

- Anastasia Stavridou. MSc Thesis: "Designing brain computer interaction software for memory and cognitivity enhancement", Dept. of Informatics, Ionian University. Supervising Committee, 2017-18.

- Alexander Sing. BSc Thesis: "Design of a novel Quantum Programming Language", Dept. of Informatics, Ionian University. Supervisor: Theodore Andronikos, 2017.

- Kalliopi Kastampolidou. BSc Thesis: "Quantum games and group theory", Dept. of Informatics, Ionian University. Supervisor: Theodore Andronikos, 2016.

- Anastasios Lafazanis. BSc Thesis: "Automata variants in Computation Theory", Dept. of Informatics, Ionian University. Supervisor: Theodore Andronikos, 2015.
- Antonis Kontakis. BSc Thesis: "Quantum Computation - Presentation and analysis of Quantum Gates", Dept. of Informatics, Ionian University. Supervisor: Theodore Andronikos, 2015.
- Christos Archontis. BSc Thesis: "Introduction to Temporal Logic", Dept. of Informatics, Ionian University. Supervisor: Theodore Andronikos, 2012.

Talks/Presentations/Seminars

- July, 2019. *"A quantum-inspired optimization heuristic for the multiple sequence alignment problem in bio-computing"* and *"Elements of game theory in a bio-inspired model of computation,"* in the 10th Information, Intelligence, Systems and Applications (IISA 2019), Patras, Greece.
- June, 2019. *"A Distributed Method to Organize Terrestrial Nodes to Facilitate Short Drone Routes in WSNs,"* in the 3rd International Balkan Conference on Communications and Networking 2019 (BalkanCom'19), Skopje, North Macedonia.
- May, 2019. Invited guest lecture entitled"New technologies, data and risks" at the 2nd General High School, Edessa, Greece.
- June, 2017. Organization and lecturing for the summer school "Programming and Robotics" at the Dept. of Informatics, Ionian University, Corfu, Greece.
- February-June, 2017. *4 Lectures on "Bio-inspired computational methods,"* for the course "Neurobiology and Membrane Systems modelling" of the Programme of Postgraduate Studies-MSc in Bioinformatics, Dept. of Informatics, Ionian University, Corfu, Greece.
- December, 2016. *Two Lectures on "Networking technologies",* for the course "Advanced Topics in Data Networks" of the Programme of Postgraduate Studies-MSc Informatics, Dept. of Informatics, Ionian University, Corfu, Greece.
- October, 2016. *Chair of NUBACoM Workshop and paper's presentation,"* in the 2nd World Congress on Geriatrics and Neurodegenerative Disease Research, Sparta, Greece.
- February, 2016. *Lecture on "Bioinformatics and bio-inspired computational methods,"* for the course "Bioinformatics" of the Programme of Postgraduate Studies-MSc Informatics, Dept. of Informatics, Ionian University, Corfu, Greece.
- 2013-2016. Set-up of workshops and tutorial for students on writing manuscripts using Latex
- July, 2015 *"Quantum automata for infinite periodic words,"* in the 6th International Conference on Information, Intelligence, Systems and Applications (IISA), Corfu, Greece.
- July, 2015. *"Initialization methods for the TSP with Time Windows using Variable Neighborhood Search,"* in the 6th International Conference on Information, Intelligence, Systems and Applications (IISA), Corfu, Greece.
- April, 2015. Coordination of a workshop within the seminar "1st Seminar for the Coordinators of the Network of Sustainable Technology in Environmental Education Center of Corfu" entitled *"Affordable Virtual Reality Applications for Educational Purposes,"* Corfu, Greece.
- October, 2014. *"Querying Linked Data and Buchi Automata,"* in the 9th International Workshop on Semantic and Social Media Adaptation and Personalization (SMAP), Corfu, Greece.
- June, 2014. Talk in the seminar "Modern educational approaches for the natural and anthropogenic environment" entitled *"Constructing a Virtual World,"* Ithaca, Greece.
- June, 2014. Coordination of a workshop within the seminar "Modern educational approaches for the natural and anthropogenic environment" entitled *"Virtual Worlds Construction Lab,"* Ithaca, Greece.
- April, 2014. *Mitochondrial fusion through membrane automata,"* in the 1st World Congress on Geriatrics and Neurodegenerative Disease Research, Corfu, Greece.
- December, 2013. Coordination of a workshop within the seminar "Introduction to Environmental Education" entitled *"Implementation of Virtual Worlds in Learning,"* Corfu, Greece.
- September, 2012. *Web mining to create semantic content: A case study for the environment,* in 1st MWDM in AIAI 2012, Chalkidiki, Greece.

Skills

- Windows OS, Unix-like systems
- LaTex
- Programming Languages and platforms: C/C++, Java, MATLAB, PHP
- Basic RDBM Systems
- Web development
- 3d modeling and Game Engines
- Image processing
- Cambridge International Diploma in IT Skills (Diploma at Standard Level) and IT Skills Proficiency

Languages

Greek, English, French

Reviewer and Committees

- Received the "2018 Entropy Outstanding Reviewer Award" (Journal's Impact Factor: 23.05)
- Committees and Editorials
    - Co-Chair of the Organizing Committee of the Natural, Unconventional, and Bio-inspired Algorithms and Computation Methods Workshop (NUBACoM 2016) by Springer, Sparta, Greece, 2016
    - Guest editor, Journal of Computation, Special Issue in "Computational Aspects Related to Unconventional, Bio-Inspired and Quantum Methods"
    - Member of the Reviewer Board of *Entropy* journal, MDPI
    - Program Committee: 3rd International Symposium on Intelligent Systems Technologies and Applications (ISTA '17) by Springer, Manipal, India
    - Program Committee: International Conference on Composite Materials & Renewable Energy Applications (ICCMREA 2017) by IEEE, Istanbul, Turkey
    - Program Committee: 3rd World Congress "Genetics, Geriatrics and Neurodegenerative Diseases Research" (GeNeDis 2018), Fields Institute, Toronto, Canada
    - Program Committee: International Conference on Composite Materials & Renewable Energy Applications (ICCMREA 2018) by IEEE, Cairo, Egypt
    - Program Committee: 4th International Symposium on Intelligent Systems Technologies and Applications (ISTA '18) by IEEE, Bangalore, India
    - Program Committee: International Conference and Workshop on Telecommunication, Computing, Electrical, Electronics and Control (ICW-TELKOMNIKA 2018), Yogyakarta, Indonesia
    - Program Committee: International Conference and Workshop on Telecommunication, Computing, Electrical, Electronics and Control (ICW-TELKOMNIKA 2019), Yogyakarta, Indonesia
    - Program Committee: International Conference on Industry 4.0 and Artificial Intelligence Technologies (INAIT '19), University of Cambridge, United Kingdom
    - Program Committee: International Conference on Computational Materials Science and Thermodynamic Systems (CMST 2019), University of Cambridge, United Kingdom
    - International Program Committee: First International Conference on Advances in Signal Processing and Artificial Intelligence (ASPAI 2019), Barcelona, Spain
    - International Conference on Smart Energy Systems (SES 2019), University of Oxford, United Kingdom
    - International Conference on Smart Energy Systems (SES 2020), Cambridge, United Kingdom
    - 6th International Conference on Electrical Engineering, Computer Science and Informatics (EECSI 2019), Bandung, Indonesia
- Served as a reviewer
    - Journals
        * Communication Networks, Elsevier

* Transactions on Industrial Informatics, IEEE
* Artificial Intelligence in Medicine, Elsevier
* PLOS One, PLOS
* IEEE Access, IEEE
* Scientific Programming, Hindawi
* Algorithms, MDPI
* Computers, MDPI
* Entropy, MDPI
* Symmetry, MDPI
* Mathematics, MDPI
* Axioms, MDPI
* Applied Sciences, MDPI
* Sensors, MDPI
* Cryptography, MDPI
* Philosophies, MDPI
* Future Internet, MDPI
* Inventions, MDPI
* Games, MDPI
* Journal of Low Power Electronics and Applications, MDPI
* Current Science, Current Science Association
* Research Journal of Optics and Photonics, SciTechnol

- International Conferences
    * TENCON 2015 by IEEE, Macau, China
    * 2nd International Symposium on Intelligent Systems Technologies and Applications (ISTA '16) by Springer, Jaipur, India
    * 25th European Conference on Information Systems (ECIS 2017), Guimaraes, Portugal
    * 5th International Conference on Electrical Engineering, Computer Science and Informatics (EECSI 2018), Yogyakarta, Indonesia
    * International Conference on Computer Science, Information Technology and Electrical Engineering (ICOMITEE 2019), East Java, Indonesia
    * 6th International Conference on Electrical Engineering, Computer Science and Informatics (EECSI 2019), Bandung, Indonesia
    * 4th South-East Europe Design Automation, Computer Engineering, Computer Networks and Social Media Conference (SEEDA-CECNSM 2019), Piraeus, Greece

- External reviewer for grant proposals
    * National Fund for Scientific and Technological Development (FONDECYT) of the Chilean National Commission for Scientific and Technological Research (CONICYT), 2017
    * Government of Canada, Natural Sciences and Engineering Research Council of Canada (NSERC), Discovery Grants Program, 2019

Membership in Scientific Societies, Research Lab and groups

- Member of scientific associations and societies
    - Computability in Europe
    - ACM SIGACT
- Research Labs and Groups
    - Bioinformatics and Human Electrophysiology Lab (BiHELab), Dept. of Informatics, Ionian University
    - Networks, Multimedia and Security Systems Laboratory (NMSLab), Dept. of Informatics, Ionian University
    - Quantum and UnconventIonal CompuTing research group (QUIT), Dept. of Informatics, Ionian University
        * founding member

Articles in Refereed International Journals

[1] Christos Papalitsas, Theodore Andronikos, Konstantinos Giannakis, Georgia Theocharopoulou, and Sofia Fanarioti. "A QUBO model for the Traveling Salesman Problem with Time Windows for execution on the D-Wave". In: *Preprints* (), pp. 1–18.

[2] Konstantinos Giannakis, Georgia Theocharopoulou, Christos Papalitsas, Sofia Fanarioti, and Theodore Andronikos. "Quantum Conditional Strategies and Automata for Prisoners' Dilemmata under the EWL Scheme". In: *Applied Sciences* 9.13 (2019). ISSN: 2076-3417. DOI: 10.3390/app9132635. URL: https://www.mdpi.com/2076-3417/9/13/2635.

[3] Konstantinos Skiadopoulos, Konstantinos Oikonomou, Markos Avlonitis, Konstantinos Giannakis, Dimitrios Kogias, and Ioannis Stavrakakis. "Multiple and Replicated Random Walkers Analysis for Service Discovery in Fog Computing IoT Environments". In: *Ad Hoc Networks* xxx (2019), pp. 1–27.

[4] Konstantinos Skiadopoulos et al. "Synchronization of Data Measurements in Wireless Sensor Networks for IoT Applications". In: *Ad Hoc Networks* xxx (2019), pp. 1–28.

[5] Theodore Andronikos, Alla Sirokofskich, Kalliopi Kastampolidou, Magdalini Varvouzou, Konstantinos Giannakis, and Alexander Singh. "Finite Automata Capturing Winning Sequences for All Possible Variants of the PQ Penny Flip Game". In: *Mathematics* 6.2 (2018). ISSN: 2227-7390.

[6] Vasileios Dragonas, Konstantinos Oikonomou, Konstantinos Giannakis, and Ioannis Stavrakakis. "A disjoint frame topology-independent TDMA MAC policy for safety applications in vehicular networks". In: *Ad Hoc Networks* 79 (2018), pp. 43–52. ISSN: 1570-8705.

[7] George Koufoudakis, Konstantinos Oikonomou, Konstantinos Giannakis, and Sonia Assa. "Probabilistic flooding coverage analysis for efficient information dissemination in wireless networks". In: *Computer Networks* 140 (2018), pp. 51–61.

[8] Christos Papalitsas, Panayiotis Karakostas, Theodore Andronikos, Spyros Sioutas, and Konstantinos Giannakis. "Combinatorial GVNS (General Variable Neighborhood Search) Optimization for Dynamic Garbage Collection". In: *Algorithms* 11.4 (2018), p. 38.

[9] Konstantinos Giannakis and Theodore Andronikos. "Membrane automata for modeling biomolecular processes". In: *Natural Computing* 16.1 (2017), pp. 151–163. DOI: 10.1007/s11047-015-9518-1. URL: http://dx.doi.org/10.1007/s11047-015-9518-1.

[10] Konstantinos Giannakis, Alexandros Singh, Kalliopi Kastampolidou, Christos Papalitsas, Theodore Andronikos, and Spyros Sioutas. "Simple quantum walks on labeled graphs: Examples and simulations". In: *submitted* (2017).

[11] Alexander Singh, Konstantinos Giannakis, and Theodore Andronikos. "Qumin, a minimalist quantum programming language". In: *arXiv preprint arXiv:1704.04460* (2017).

[12] Konstantinos Skiadopoulos, Konstantinos Giannakis, and Konstantinos Oikonomou. "Random Walker Coverage Analysis for Information Dissemination in Wireless Sensor Networks". In: *Technologies* 5.2 (2017), p. 33.

[13] Konstantinos Giannakis, Georgia Theocharopoulou, Christos Papalitsas, Theodore Andronikos, and Panayiotis Vlamos. "Associating ω-automata to path queries on Webs of Linked Data". In: *Engineering Applications of Artificial Intelligence* 51 (2016). Mining the Humanities: Technologies and Applications, pp. 115–123. ISSN: 0952-1976. DOI: http://dx.doi.org/10.1016/j.engappai.2016.01.013.

[14] Konstantinos Giannakis and Theodore Andronikos. "Use of Bchi automata and randomness for the description of biological processes". In: *International Journal of Scientific World* 3.1 (2015), pp. 113–123. ISSN: 2307-9037.

[15] Konstantinos Giannakis, Christos Papalitsas, Kalliopi Kastampolidou, Alexandros Singh, and Theodore Andronikos. "Dominant Strategies of Quantum Games on Quantum Periodic Automata". In: *Computation* 3.4 (2015), pp. 586–599.

Book Chapters

[16] Konstantinos Giannakis, Georgia Theocharopoulou, Christos Papalitsas, Sofia Fanarioti, and Theodore Andronikos. "Particular biomolecular processes as computing paradigms". In: *GeNeDis 2018*. Ed. by Panayiotis Vlamos. Cham: Springer International Publishing, 2018, pp. 1–16.

[17] Andreas Giannakis, Konstantinos Giannakis, and Athanasios Karlis. "An Approach of Non-Linear Systems Through Fuzzy Control Based on Takagi-Sugeno Method". In: *GeNeDis 2016: Computational Biology and Bioinformatics*. Ed. by Panayiotis Vlamos. Cham: Springer International Publishing, 2017, pp. 113–126. ISBN: 978-3-319-56246-9. DOI: 10.1007/978-3-319-56246-9_9. URL: https://doi.org/10.1007/978-3-319-56246-9_9.

[18] Konstantinos Giannakis, Alexandros Singh, Kalliopi Kastampolidou, Christos Papalitsas, and Theodore Andronikos. "QM Automata: A New Class of Restricted Quantum Membrane Automata". In: *GeNeDis 2016: Computational Biology and Bioinformatics*. Ed. by Panayiotis Vlamos. Cham: Springer International Publishing, 2017, pp. 193–204. ISBN: 978-3-319-56246-9. DOI: 10.1007/978-3-319-56246-9_15. URL: https://doi.org/10.1007/978-3-319-56246-9_15.

[19] Alexandros Singh, Konstantinos Giannakis, Kalliopi Kastampolidou, and Christos Papalitsas. "Methods and Patterns for User-Friendly Quantum Programming". In: *GeNeDis 2016 : Geriatrics*. Ed. by Panayiotis Vlamos. Cham: Springer International Publishing, 2017, pp. 201–210. DOI: 10.1007/978-3-319-57348-9_17. URL: https://doi.org/10.1007/978-3-319-57348-9_17.

[20] Konstantinos Giannakis and Theodore Andronikos. "Mitochondrial Fusion Through Membrane Automata". In: *GeNeDis 2014*. Ed. by Panayiotis Vlamos and Athanasios Alexiou. Springer International Publishing, 2015, pp. 163–172. ISBN: 978-3-319-09011-5.

Articles in Refereed International Conferences

[21] Aikaterini-Georgia Alvanou, Konstantinos Skiadopoulos, Konstantinos Giannakis, Konstantinos Oikonomou, and Georgios Tsoumanis. "Random Walkers Coverage Experimentation and Evaluation in Low-Cost Wireless Home Networks". In: *Information, Intelligence, Systems and Applications, IISA 2019, The 10th International Conference on*. 2019, pp. 1–4.

[22] Konstantinos Giannakis, Christos Papalitsas, Georgia Theocharopoulou, Sofia Fanarioti, and Theodore Andronikos. "A quantum-inspired optimization heuristic for the multiple sequence alignment problem in bio-computing". In: *Information, Intelligence, Systems and Applications, IISA 2019, The 10th International Conference on*. 2019, pp. 1–8.

[23] Konstantinos Skiadopoulos, Konstantinos Giannakis, Konstantinos Oikonomou, Ioannis Stavrakakis, and Sofia Fanarioti. "A Distributed Method to Organize Terrestrial Nodes to Facilitate Short Drone Routes in WSNs". In: *Third International Balkan Conference on Communications and Networking 2019 (BalkanCom'19)*. Skopje, North Macedonia, June 2019.

[24] Georgia Theocharopoulou, Konstantinos Giannakis, Christos Papalitsas, Sofia Fanarioti, and Theodore Andronikos. "Elements of game theory in a bio-inspired model of computation". In: *Information, Intelligence, Systems and Applications, IISA 2019, The 10th International Conference on*. 2019, pp. 1–4.

[25] Alexandros Zervopoulos, Konstantinos Skiadopoulos, Konstantinos Giannakis, Konstantinos Oikonomou, Vasileios Komianos, and Georgios Tsoumanis. "Constructing Virtual Backbones over Low-Cost Wireless Networks for Smart Tourism Services". In: *Information, Intelligence, Systems and Applications, IISA 2019, The 10th International Conference on*. 2019, pp. 1–8.

[26] Alexandros Zervopoulos et al. "Constructing Minimal Maintenance Virtual Backbones over Low-Cost Wireless Networks". In: *4th South-East Europe Design Automation, Computer Engineering, Computer Networks and Social Media Conference (SEEDA-CECNSM)*. accepted. 2019, pp. 1–5.

[27] Theodore Andronikos, Alexander Singh, Konstantinos Giannakis, and Spyros Sioutas. "Computing Probabilistic Queries in the Presence of Uncertainty via Probabilistic Automata". In: *Algorithmic Aspects of Cloud Computing*. Ed. by Dan Alistarh, Alex Delis, and George Pallis. Cham: Springer International Publishing, 2018, pp. 106–120. ISBN: 978-3-319-74875-7.

[28] Sofia Fanarioti et al. "A Proposed Algorithm for Data Measurements Synchronization in Wireless Sensor Networks". In: *Second International Balkan Conference on Communications and Networking 2018 (BalkanCom'18)*. Podgorica, Montenegro, June 2018.

[29] Konstantinos Skiadopoulos, Konstantinos Giannakis, Konstantinos Oikonomou, and Ioannis Stavrakakis. "Analysis of Multiple Random Walkers for Service Discovery in Fog Computing Network Environments". In: *Second International Balkan Conference on Communications and Networking 2018 (BalkanCom'18)*. Podgorica, Montenegro, June 2018.

[30] Konstantinos Skiadopoulos, Konstantinos Giannakis, Konstantinos Oikonomou, Ioannis Stavrakakis, and Sonia Assa. "Distributed Construction of d-hop Connected Dominating Sets for Wireless Sensor Networks". In: *2018 IEEE Global Communications Conference: Ad Hoc and Sensor Networks (Globecom2018 AHSN)*. Abu Dhabi, United Arab Emirates, Dec. 2018.

[31] Christos Papalitsas, Panayiotis Karakostas, Konstantinos Giannakis, Angelo Sifaleras, and Theodore Andronikos. "Initialization methods for the TSP with Time Windows using qGVNS". In: *6th International Symposium on Operational Research*. Thessaloniki, Greece, 2017.

[32] Konstantinos Giannakis, Christos Papalitsas, and Theodore Andronikos. "Quantum automata for infinite periodic words". In: *Information, Intelligence, Systems and Applications (IISA), 2015 6th International Conference on*. IEEE. 2015, pp. 1–6.

[33] Christos Papalitsas, Konstantinos Giannakis, Theodore Andronikos, Dimitrios Theotokis, and Angelo Sifaleras. "Initialization methods for the TSP with time windows using variable neighborhood search". In: *Information, Intelligence, Systems and Applications, IISA 2015, The 6th International Conference on*. IEEE. 2015.

[34] Georgia Theocharopoulou, Konstantinos Giannakis, and Theodore Andronikos. "The mechanism of splitting mitochondria in terms of membrane automata". In: *2015 IEEE International Symposium on Signal Processing and Information Technology (ISSPIT)*. IEEE. 2015, pp. 397–402.

[35] Konstantinos Giannakis and Theodore Andronikos. "Querying linked data and Buchi automata". In: *Semantic and Social Media Adaptation and Personalization (SMAP), 2014 9th International Workshop on*. IEEE. 2014, pp. 110–114.

[36] Konstantinos Giannakis, Konstantinos Chorianopoulos, and Letizia Jaccheri. "User Requirements for Gamifying Sports Software". In: *Proceedings of the 3rd International Workshop on Games and Software Engineering: Engineering Computer Games to Enable Positive, Progressive Change*. GAS '13. San Francisco, California: IEEE Press, 2013, pp. 22–26. ISBN: 978-1-4673-6263-4.

[37] Georgia Theocharopoulou and Konstantinos Giannakis. "Web Mining to Create Semantic Content: A Case Study for the Environment". In: *Artificial Intelligence Applications and Innovations: AIAI 2012 International Workshop: MHDW, Halkidiki, Greece, September 27-30, 2012, Proceedings, Part II*. Berlin, Heidelberg: Springer Berlin Heidelberg, 2012, pp. 411–420. ISBN: 978-3-642-33412-2. DOI: 10.1007/978-3-642-33412-2_42.

Articles in Refereed Greek Conferences

[38] Stefanos Koursaris and Konstantinos Giannakis. "Hellenic Natural Resources with Ontologies". Local proceedings. 2011.

Research impact (according to Google Scholar)

Citations: **92**
h-index: **5**
i10-index: **2**

Hobbies

reading, movies, sports.