Ioannis Refanidis

- Professor of Artificial Intelligence
  Department of Applied Informatics
  University of Macedonia,
  Thessaloniki, Greece

- Dean of School of Information Sciences,
  University of Macedonia

Curriculum Vitae

Thessaloniki, November 2023

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BASIC DETAILS

Full name	Refanidis Ioannis
Residence	Thessaloniki, Greece
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ACADEMIC HISTORY AT UNIVERSITY OF MACEDONIA

Lecturer (date of election)	24.5.2002
Lecturer (date of appointment)	ΝΠΔΔ208 - 11.9.2002 (16.9.2002)
Assistant professor (date of election)	30.06.2006
Assistant professor (date of appointment)	Γ452 - 4.12.2006 (7.12.2006)
Tenure track (date of election)	15.6.2010
Tenure track (date of appointment)	Γ1062 - 4.11.2010 (5.11.2010)
Associate professor (date of election)	24.4.2012
Associate professor (date of appointment)	Γ655 - 10.7.2012 (11.7.2012)
Professor (date of election)	27.09.2016
Professor (date of appointment)	Γ1274/2016 (14.12.2016)

STUDIES

Higher education	2001	**PhD, Department of Informatics**, Aristotle University of Thessaloniki. Dissertation title: "Heuristic Planning Systems" (**Excellent**)
	1997	**BSc in Informatics**, Aristotle University of Thessaloniki (**Excellent, 9.00/10**).
	1992	**BSc in Physics**, Aristotle University of Thessaloniki (**Excellent, 8.91/10**).
Basic education	1988	Certificate of studies, 21st Higher School of Thessaloniki (Excellent).
Scholarships	1996-1999	Scholarship from **Bodossaki Foundation** (3 years) for doctoral studies in Greece.

	1989, 1990	Two (2) yearly scholarships from the **State Scholarship Foundation** (I.K.Y.) for excellent performance as an undergraduate student at the Department of Physics.
Foreign languages	2003	• **English**, Certificate in Advanced English από το University of Cambridge (grade: B). • **English**, Advanced Level Certificate in English από The Hellenic American Union.
	1985	**German**, Zertifikat Deutch als Fremdsprache – Grundstufe. Grade: D-ausreichend.

RESEARCH INTERESTS

Artificial Intelligence	• Artificial Intelligence
	   o Planning and Scheduling
	   o Neural networks, Machine learning
	   o Intelligent systems in internet
	   o Semantic web, intelligent agents
	   o games
	• Game Theory
	• Intelligent Information Systems
	   o Intelligent tutoring systems
	   o Expert systems and Knowledge based systems
	• Educational software
	• Simulations

CERTIFICATIONS

- "Introduction to Self-Driving Cars by University of Toronto on Coursera. Certificate earned at Tuesday, April 9, 2019 10:01 PM GMT"
    - https://www.coursera.org/account/accomplishments/certificate/JQFF8BT2TK7M

TEACHING

2002-now	- **Undergraduate level**, Department of Applied Informatics, University of Macedonia
	   o **Computation theory** (since 2002-03 till now)
	   o **Artificial Intelligence** (since 2002-03 till now). The course is also offered in the English language, for Erasmus students.
	   o **Neural networks** (since 2003 to 2021)
	   o **Game Theory** (since 2003-04 till now). The course is also offered in the English language, for Erasmus students.
	   o **Introduction to Informatics** (between 2009-10 and 2013-14, co-teaching with I. Mavridis and N. Samaras)

2003-now	- **Postgraduate level, Master in Applied Informatics**, University of Macedonia.
	    o **Artificial Intelligence and Intelligent Systems** (since 2003-04 till 2021-22). Since 2012-13 the course has been renamed to **Advanced Artificial Intelligence**.
	    o **Methods and Tools of Artificial Intelligence**, 2022-23, co-teaching with colleagues (undertaking 4 lectures).
	    o **Neural Networks and Evolutionary Algorithms** (since 2003-04 till 2012-13)
	    o **Knowledge Management Systems** (2011-12 and 2012-13, co-teaching with colleague, undertaking 6 lectures).
	    o **Algorithmic Game Theory** (since 2014-15 till 2017-18)

2019-now	- **Postgraduate level, Master in Artificial Intelligence and Data Analytics**, University of Macedonia.
	    o Machine learning and natural language processing, 2019-20 to 2022-23, teaching the part of natural language processing (5 out of 13 lectures).
	    o Planning and Scheduling, since 2019-20, teaching the part of planning (9 out of 13 lectures)

2006-now	- **Master program in Information Systems**, Hellenic Open University (EAP) – distance teaching. o Basic Specialization in Theory and Software (PLS50)

2004	- For the master program "Technologies and Management of Information and Telecommunication Systems" of the Department of Information and Telecommunications Systems Engineering of Aegean University, particularly of the direction "Information management", I delivered a 7 hours lecture about the topic "Planning systems in internet".

2001-2002	- Adjunct lecturer (full time) at University of Thessaly, Department of Computer, Telecommunications and Network Engineering, teaching the courses "Programming I (programming language C)", "Scientific Programming (MATLAB)" and "Computational Mathematics ". - Adjunct lecturer (part time) at Aristotle University of Thessaloniki, Department of Informatics, teaching the courses "Structured Programming (Pascal)" and "Programming language C and Unix".

1996-2000	• Occasionally teaching at teachers college "D. Glinos" of the Pedagogic Department for Primary Education of Aristotle University of Thessaloniki.

SUPERVISING DISSERTATIONS AND THESES

I have supervised successfully the following **six (6) PhD students**:

- **Sklavakis Dimitrios** (2007-2015) with title "**MATHESIS: An Intelligent Environment to Author Cognitive Tutors for Mathematics**". He defended successfully his work in July 2015. The dissertation has been graded unanimously with **Excellent** by the seven-member examination committee. During the first three years of his PhD research, Mr. Sklavakis received an educational leave with full salary from his work at the Greek Secondary Education.

- **Markou George** (2009-2015) with the title "**Decision making in non-deterministic environments**". He defended successfully his work in October 2015. The dissertation has been graded unanimously with **Excellent** by the seven-member examination committee. The research has been funded by the program "Heracleitus II.

- **Alexiadis Anastasios** (2009-2015) with the title "**Planning and Scheduling Systems** ". He defended successfully his work in November 2015. The dissertation has been graded unanimously with **Excellent** by the seven-member examination committee.

- **Papachristou Nikolaos** (2010-2015) with the title "**Decision making in multi-agent environments: Application to games**". He defended successfully his work in October 2015. The dissertation has been graded unanimously with **Excellent** by the seven-member examination committee. Within his PhD research framework, he won **two gold medals** in the International Computer Olympiad (2011 and 2015), in the game backgammon, with the program **Palamides**, which is the main outcome of his PhD research. For the first two years of his research Mr. Papachristou received a scholarship from the State Scholarship Foundation (IKY).

- **Agnantis Konstantinos** (2011-2015) with the title "**Intelligent systems in Semantic Web**". He defended successfully his work in November 2015. The dissertation has been graded unanimously with **Excellent** by the seven-member examination committee. The research has been funded by the program "Heracleitus II".

- **Nikolaidis Spyridon** (2018-2022), with the title "**Decentralized Deep Neural Network Training via Distributed Ledger Technology**". Successfully defended in March 2022, approved unanimously.

Furthermore, I am/was participating in the three-member advisory committee of the several PhD students.

Finally, for the following programs:
- Undergraduate program in Applied Informatics of University of Macedonia
- Postgraduate program in Applied Informatics of University of Macedonia

- Postgraduate program in Information Systems of the Hellenic Open University

I have supervised successfully **131 BSc and MSc theses (11/2023)**.

EDUCATIONAL LEAVES

10/2008-1/2009	• SRI International, CA, USA.

ADMINISTRATIVE EXPERIENCE

2023-now	• Dean of School of Information Sciences, University of Macedonia
2019-2023	• Director of the MSc Program on Artificial Intelligence and Data Analytics, of the Department of Applied Informatics of University of Macedonia.
2013-2017	• Member of the coordination committed of the Master Program in Applied Informatics of University of Macedonia.
Sep'2015-Nov2015	• Vice Rector of University of Macedonia
2003-today	• I have been a member of several administrative committees of University of Macedonia, that were responsible for running public auctions (e.g., procurements).

I have also participated in several committees for the evaluation of the election/promotion of colleagues in various Greek Universities.

SCIENTIFIC ACTIVITY

I was a member of the program committee of the following conferences:

- International Joint Conference on Artificial Intelligence (**IJCAI**); 2020, 2018, 2016, 2015, 2013, 2011, 2009.
- ECAI; 2018, 2016, 2014, 2010 (**Area Chair on Planning & Scheduling)**, 2006, 2004.
- Association for the Advancement of Artificial Intelligence Conference (**AAAI**); 2022, 2021, 2020, 2019, 2012, 2006.
- International Conference on Automated Planning & Scheduling (**ICAPS**); 2018, 2016, 2015, 2014, 2013, 2011, 2010, 2008, 2005, 2004.
- Ελληνικό Συνέδριο Τεχνητής Νοημοσύνης (**ΣΕΤΝ**); 2022, 2020, 2018, 2016, 2014, 2012, 2010 (**Area Chair on Planning & Scheduling**), 2008, 2006, 2004, 2002.
- International Conference on Artificial Intelligence: Methodology, Systems, Applications (**AIMSA**); 2022, 2020, 2018, 2016, 2014, 2012, 2010, 2008.
- Italian Workshop on Planning and Scheduling (**IPS**); 2022, 2021, 2019, 2015, 2013, 2010.

- Workshop of the UK Planning and Scheduling Special Interest Group (**UK PlanSIG**); 2012, 2010.
- International Conference on Engineering Applications of Neural Networks (ICEAN); 2011.
- Artificial Intelligence Applications and Innovations Conference (AIAI); 2020, 2009.

I was also a member of the program committees of the following workshops:

- Workshop on Planning and Learning, 2013 (ICAPS WPAL 2013).
- 19th workshop on experimental evaluation of algorithms for solving problems with combinatorial explosion (RCRA 2012).
- 3rd Workshop on Learning and Planning, Freiburg, Germany (2011).
- IJCAI Workshop on Planning and Learning in A Priori Unknown or Dynamic Domains, Edinburgh, UK (2005).
- ICAPS Workshop on Planning and Scheduling with Multiple Criteria, Toulouse, France (2002).

I was a member of the organizing committee of the following events:

2013	ICAPS-2013 Doctoral Consortium **co-chair**, Rome, Italy http://icaps13.icaps-conference.org/student-program/doctoral-consortium/
2009	**Conference Chair** του 19th International Conference on Automated Planning and Scheduling (ICAPS-09), September 2009, Thessaloniki, Greece. http://icaps09.uom.gr
2008	**co-Chair** του 6th International Planning Competition, within the 18th International Conference on Automated Planning & Scheduling, Sydney, Australia. http://icaps-conference.org/ipc2008/deterministic/
2007	Co-organizer of Workshop with title "International Planning Competition: Past, Present and Future", within 17th International Conference on Automated Planning & Scheduling, Providence, Rhode Island, USA.
2006	Tutorial Chair του 16th International Conference on Automated Planning and Scheduling (ICAPS-06), UK.
2005	Demonstration Chair του 15th International Conference on Automated Planning and Scheduling (ICAPS-05), California, USA.
2002	Member of the organizing committee of the 2nd Hellenic Artificial Intelligence Conference (SETN-02), Thessaloniki, Greece.
2002	Co-Organizer of the Workshop on Planning & Scheduling with Multiple Criteria, within 6th International Conference on Artificial Intelligence Planning and Scheduling Systems, Toulouse, France
2002	Member of the organizing committee of the 2nd international summer school on planning, funded by EU (Halkidiki, Greece, September 2002)

I was also been an article reviewer for the following scientific journals:
- ACM Transactions on Intelligent Systems and Technologies; 2010, 2012, 2014, 2015.
- Journal of Scheduling; 2008.
- Artificial Intelligence Journal; 2000, 2001, 2007.
- Journal of ACM; 2007.
- Journal of Algorithms; 2013.
- Computational Intelligence; 2015, 2016.

- IEEE Intelligent Systems; 2012.
- IEEE Systems, Man & Cybernetics; 2012.
- International Journal of Artificial Intelligence Tools; 2014.
- Engineering Applications of Artificial Intelligence; 2015.
- Transactions on Computational Intelligence and AI in Games; 2012.
- Intelligenza Artificiale; 2016.

I have also participated in the following scientific societies:

2012-2014	General Secretary of the Hellenic Association for Artificial Intelligence (**EETN**)
2008-2010 2002-2006	Elected member of the executive board of the Hellenic Association for Artificial Intelligence (**EETN**).
1999-	Member of the Hellenic Association for Artificial Intelligence (**EETN**).
1998-today	Member of the American Association for Artificial Intelligence (**AAAI**)
2001-	Member of the Hellenic Society of Informaticians (**EPE**)
1994-	Member of the Hellenic Physicists Society (**EEF**)

SOCIAL ACTIVITY

| 2012-2014 / 2014-2016 | President / member of the executive board of the parents association for the primary school of my children |

SYSTEM DEVELOPMENT

I have **personally** developed the following systems:

- **GRT**: A domain independent heuristic planning system. GRT participated at the 2nd International Planning Competition (2000). [J4, J5]

- **GRT-R**: An extension to GRT supporting resources. [C8]

- **MO-GRT**: An extension to GRT and GRT-R supporting multiple criteria. [J6]

- **hTGP**: A partial order planning system, using a temporal planning graph to extract its heuristic and exploits extensively temporal constraint propagation. [C15]

- **SELFPLANNER** (together with A. Alexiadis): Web-based intelligent calendar application, that allows its users to define their individual activities using a rich domain model supporting constraints and preferences, and solves the underlying scheduling problem towards optimizing user's utility. The system has been lively demonstrated at ICAPS-2007 and ICAPS-2011. It is available at http://selfplanner.uom.gr. [J7, J8, C18, C19, C22, C25, C29]

  http://selfplanner.uom.gr/

- **Hoex planner**: It is a prototype planning system for classical planning problems (STRIPS). Is uses extensively higher order exclusion relations (hoexes). It computes all hoexes and then extracts an optimal plan without backtracking (backtracking free). It can also run with setting a limit to the order of the exclusion relations and using search to extract a plan. [J10]

I have **coordinated and actively participated in** the development of the following system:

- **MYVISITPLANNER^GR:** It is the result of a EU/Greek co-funded program, with 5 partners, under the action COOPERATION-2009. It concerns an intelligent system that recommends cultural activities, taking into account the user's profile, and creates alternative plans, taking into account the user's other commitments. The system supports various forms of learning, whereas it takes privacy seriously into account [J14, J17, C39, C40, G11]

  http://myvisitplanner.com/

Finally, I have **supervised** the development of the following systems (which have been developed by my PhD students):

- **COURSR:** This system is one of the research results from the PhD of Dr. Konstantinos Agnantis. It concerns an intelligent web-based system helping learners to accommodate

educational objects within their calendars, supporting dynamic rescheduling of all activities (educational and non-educations). [C42]

http://coursr.uom.gr/index

- **MadSwan:** This is one of the research results from the PhD of Dr. George Markou. It concerns the automated or computer assisted composition of web services, based on their functional requirements. [J12, J15, J18, C32, C36, C38]

- **Palamedes:** This is the main research result from the PhD work of Dr. Nikolaos Papachristou. It concerns an intelligent bot playing various forms of backgammon, with extremely good performance. [C31, C35]

http://ai.uom.gr/nikpapa/Palamedes/

- **AnyGammon:** This is another research result from the PhD work of Dr. Nikolaos Papachristou, concerning an intelligent bot playing variations of backgammon, that concern different sizes of the game. [C37]

http://ai.uom.gr/nikpapa/AnyGammon/

- **Mathesis algebra tutor:** This is one of the research results of the PhD work of Dr. Dimitrios Sklavakis, concerning an intelligent web-based algebra tutor, that allows the teacher to create arbitrarily complex exercises and then monitors the student in his/her attempt to solve them, recording his performance and providing assistance whenever needed. [J11, C20, G9]

http://users.sch.gr/dsklavakis/mathesis/en/MATHESIS_Main_Frameset.htm

- **Learnae:** It is a system for distributed training of neural networks. It is the main result of the PhD work of Dr. Spyridon Nikolaidis. [J24, J25, J27, C48, C51]

R&D PROJECTS

2020-2021	Participation to the DeepInvest project (with principal investigator Prof. Nikolaos Samaras), having as object stock price prediction and portfolio optimization.
2019-03/2020	Agecy: **Reseach Committee of University of Macedonia** Programme: **Basic research 2019** Title: ***Dristributed training of deep neural networks with an application to automated text synopsis*** Budget: **4.000€** Role: **Principal Investigator** Two PhD students, under my supervision, participated in the project.
2014-2015	Under the administration of the Research Committee of the **Hellenic Open University**, within the sub-project 5 with the title "Laboratory of Educational Material and Educational Methodology", under the supervision of (at that time) Assoc. Professor Achilleas Kameas, of the action "Hellenic Open University", activity 5, work package 5.1, I participated in the improvement of the quality of the educational material for the scientific disciplines 2 "Algorithms and Comlexity" and 3 "Software Engineering" of thematic unit PLS50 "Basic Specializations on Theory and Software".
2013-2015	Participation in the '"Open Digital Classes at University of Macedonia", supervised by Prof. Manos Roumeliotis. I have developed three digital classes, with video recording of my lectures, and accompanying material such as slides and exercises. The three classes are: • **Artificial Intelligence**, compulsory class of the 6th semester http://opencourses.uom.gr/courses/efarmosmenhs-plhroforikhs/254-texnhth-nohmosynh • **Game Theory**, selective class of the 7th semester http://opencourses.uom.gr/courses/efarmosmenhs-plhroforikhs/159-theoria-paignion • **Computation Theory and Automata**, selective class of the 7th semester http://opencourses.uom.gr/courses/efarmosmenhs-plhroforikhs/151-theoria-ypologismon-kai-aytomaton It is worth noting that my digital class "**Artificial Intelligence**" has been awarded as the **second best digital class** of the program. • http://opencourses.uom.gr/dhmosiothta/draseis/879-diagonismos-kalyteron-pshfiakon-mathhmaton-kai-beltiston-praktikon-anakoinosh-apotelesmaton
2011-2014	Funding resource: **General Secretariat of Research and Technology** Action: **Cooperation 2009** Project title: **A Personalized System to Plan Cultural Paths (myVisitPlanner^GR)** Budget: **419,656.70€**

	My role: **Scientific coordinator** The project's consortium comprise **five (5) partners**: 1. University of Macedonia 2. Gnomon Informatics S.A., Thessaloniki 3. Institute of Cultural and Educational Technology, Xanthi 4. Development of West Macedonia (ANKO), Kozani 5. Ethnological Museum of Thrace, Alexandroupolis University of Macedonia is the coordinator partner, with a budget of **105,000.00€**. The program started at **18/4/2011** and ended at **17/12/2014**. The project team of University of Macedonia comprised 7 members. The project completed successfully.
2011-2014	Funding resource: Ministry of Education Action: **Heracleitous II** Project title: **Intelligent systems in semantic web** Budget: **45,000.00€** My role: **Supervisor** The project concerns the PhD research of the PhD candidate Mr. **Konstantinos Agnantis**. The project completed successfully in November 2015.
2010-2013	Funding resource: Ministry of Education Action: **Heracleitous II** Project title: **Decision Making in non-Deterministic Environments** Budget: **45,000.00€** My role: **Supervisor** The project concerns the PhD research of the PhD candidate Mr. **George Markou**. The project completed successfully in October 2015.
2003-2006	Funding resource: **Sun Microsystems Inc.** Program : **Academic Educational Grants (AEG)** Project title: **Mobile Intelligent Systems** Budget: **75,583.89$** (in equipment) My role: Responsible for the research part of the project The project has two parts, a research part and an educational part. The research part concerns the development of intelligent assistants running on mobile devices (Personal Digital Assistant, PDA) and raising notifications about upcoming events that have been planned automatically by a remote planning system. The educational part concerns teaching Java to students.
2003-2004	Representative of University of Macedonia to *AgentCities.NET*, funded by FP5 EU program.
2003-2004	Representative of University of Macedonia at *PLANET* (*PLAnning NETwork of Excellence*), funded by FP5 EU program.

2003-2008	Participation in several educational programs of the Department of Applied Informatics of University of Macedonia.
1996-2002	Participation in several R&D programs at Aristotle University of Thessaloniki, such as: • Network of Excellence *PLANET* (*PLAnning NETwork*), FP5 (2000-02). • "A parallel constraint planner with JAVA interface", SUN Microsystems (2001-02). • Developing of a composite laboratory using multimedia, project *E22-Naysica*, program *Oddyseia*, Ministry of Education (1999-2000). • Production of educational multimedia material to teach the programming language Prolog, EPEAEK (1999). • *EXPERNET: A Distributed Expert System for the Management of a National Network*, INCO (1998). • Developing of an Expert System for Software Evaluation, PENED (1996-97).

PUBLICATIONS

Summary

Books (authoring/translation)	5
Book chapters	2
Journal articles	27
International Conferences and Workshops	56
Greek Conferences	12
Theses	3
TOTAL	**105**

The detailed list of publications follows.

Books

A1. I. Vlahavas, P. Kefalas, N. Bassiliades, I. Refanidis, F. Kokkoras and I. Sakellariou. Artificial Intelligence (in Greeks), 1st edition. Gartaganis publishers, 2002.

A2. Supervising the Greek translation of the book "Artificial Intelligence, a modern approach", by Stuart Russell and Peter Norvig (2nd edition), Kleidarithmos publishers, 2004.

A3. Alfonso Gerevini, Adele Howe, Amedeo Cesta and **Ioannis Refanidis** (eds), Proceedings of the 19th International Conference on Automated Planning and Scheduling. AAAI Press, 2009.

A4. Supervising the Greek translation of the book "Introduction to Game Theory", by Martin J. Osborne. Kleidarithmos publishers, 2010.

A5. Supervising the Greek translation of the book "Introduction to Information Retrieval", by Christopher Manning, Prabhakar Raghavan, and Hinrich Schutze. Kleidarithmos publishers, 2012.

Book chapters (with reviewers)

B1. I. Stamelos, **I. Refanidis**, P. Katsaros, A. Tsoukias, I. Vlahavas and A. Pomportsis. An Adaptable Framework for Educational Software Evaluation. In *Decision Making: Recent Developments and Worldwide Applications*, S.H. Zanakis, G. Doukidis and C. Zopounidis (eds), 347-360, Kluwer Academic Publishers, 2001.

B2. **I. Refanidis** and I. Vlahavas. A Heuristic Based Approach to Planning in STRIPS Domains. In *Advances in Informatics*, ed. I. Fotiadis & S.D. Nikolopoulos, World Scientific, April 2000, 305-312. doi: 10.1142/9789812793928_0027 (also appeared in the Proceedings of the 7th Hellenic Conference on Informatics, Ioannina, Greece, 26-29 August, 1999, V96-103).

Journals (with reviewers)

J1. I. Vlahavas, I. Stamelos, **I. Refanidis** and A. Tsoukias. ESSE: an Expert System for Software Evaluation. *Knowledge Based Systems,* 12 (4), 1999, pp. 183-197.

J2. I. Stamelos, I. Vlahavas, **I. Refanidis** and A. Tsoukias. Knowledge Based Evaluation of Software Systems: a Case Study. *Information and Software Technology*, 42 (5), 2000,

pp. 333-345.

J3. D. Vrakas, **I. Refanidis** and I. Vlahavas. Parallel planning via the distribution of operators. *Journal of Experimental and Theoretical Artificial Intelligence*, 13 (3), 2001, pp. 211-226.

J4. **I. Refanidis** and I. Vlahavas. The GRT Planning System: Backward Heuristic Construction in Forward State-Space Planning. Journal of Artificial Intelligence Research, 15, 2001, 115-161.

J5. **I. Refanidis** and I. Vlahavas. The GRT Planner. *AI Magazine*, Fall 2001, pp. 63-65.

J6. **I. Refanidis** and I. Vlahavas. Multiobjective Heuristic State-Space Planning. Artificial Intelligence Journal, vol 145/1-2, 2003, pp 1 – 32.

J7. **I. Refanidis** and A. Alexiadis. Deployment and Evaluation of SELFPLANNER, an Automated Individual Task Management System. Computational Intelligence, 27(1), 2011, pp. 41-59.

J8. **I. Refanidis** and N. Yorke-Smith. A Constraint Based Programming Approach to Scheduling an Individual's Activities. ACM Transactions on Intelligent Systems and Technologies, vol. 1 (2), 2010, pp. 12:1-12:32.

J9. **I. Refanidis**. A Dynamic Programming Formulation of Scheduling Non-Deterministic Activities with Stochastic Durations. International Journal of Artificial Intelligence (IJAI), vol. 7 (A11), 2011, pp. 1-18.

J10. **I. Refanidis** and I. Sakellariou. Computing higher order exclusion relations in propositional planning. Journal of Experimental and Theoretical Artificial Intelligence (JETAI), vol. 25, no.1 (2012), 23-51.

J11. D. Sklavakis and **I. Refanidis**. MATHESIS: An Intelligent Web-Based Algebra Tutoring School. International Journal of Artificial Intelligence in Education 22 (2013) 191–218.

J12. G. Markou and **I. Refanidis**. Composing Semantic Web Services Online and an Evaluation Framework. International Journal on Advances in Internet Technology, vol. 6, no. 3-4 (2013), 114-131.

J13. D. Sklavakis and **I. Refanidis**. The MATHESIS meta-knowledge engineering framework: Ontology-driven development of intelligent tutoring systems. Applied Ontology Journal, vol. 9 (2014), 237-265.

J14. A. Alexiadis and **I. Refanidis**. Optimizing Individual Activity Personal Plans through Local Search. AI Communications, 29 (2015), 185-203.

J15. G. Markou and **I. Refanidis**. Non-deterministic planning methods for automated web service composition. Artificial Intelligence Research, vol. 5 (1), 2016.

J16. K. Goulianas, A. Margaris, **I. Refanidis** and K. Diamantaras. An adaptive learning rate backpropagation-type neural network for solving n × n systems on nonlinear algebraic equations. Mathematical Methods in Applied Sciences, Article first published online : 29 SEP 2015, DOI: 10.1002/mma.3715.

J17. A. Alexiadis and **I. Refanidis**. Alternative Plan Generation And Online Preference Learning In Scheduling Individual Activities. International Journal on Artificial Intelligence Tools, accepted on Dec 28, 2015.

J18. G. Markou and **I. Refanidis**. Cost-Sensitive Probabilistic Contingent Planning for Web Service Composition. International Journal on Artificial Intelligence Tools, 25 (1), 2016, doi: 10.1142/S0218213016600010.

J19. K. Goulianas, A. Margaris, **I. Refanidis**, K. Diamantaras and T. Papadimitriou. A back-propagation-type neural network architecture for solving the complete *n x n* nonlinear algebraic system of equations. Advances in Pure Mathematics, 2016.

J20. K. Agnantis, A. Alexiadis and **I. Refanidis**. Intelligent Calendar Applications: A Holistic Framework based on Ontologies. International Journal on Artificial Intelligence (IJAI), 2016 Autumn (October), vol. 14 (2), pp. 1-22, Ceser Publications.

J21. K. Agnantis, A. Alexiadis and **I. Refanidis**. Coursr2: An Integrated Time Management System for Lifelong Learners. International Journal of Artificial Intelligence Tools (IJAIT), Vol. 25, No. 06, 1650029 (December 2016), World Scientific.

J22. K. Goulianas, A. Margaris, I. Refanidis and K. Diamantaras. Solving polynomial systems using a fast adaptive back propagation-type neural network algorithm. European Journal of Applied Mathematics, Cambridge University Press, 2017. https://doi.org/10.1017/S0956792517000146 .

J23. A. Alexiadis, I. Refanidis and I. Sakellariou. Integrating Meeting and Individual Events Scheduling. Inteligencia Artificial, 21(62) (2018), 53-66. (also presented at the COPLAS-2018 workshop). https://doi.org/10.4114/intartif.vol21iss62pp53-66

J24. Sp. Nikolaidis and **I. Refanidis**. Privacy Preserving Distributed Training of Neural Networks. Accepted for publication by the Neural Computing and Applications, Springer (12/2020).

J25. S. Nikolaidis and **I. Refanidis**. Using distributed ledger technology to democratize neural network training. Applied Intelligence, Springer. 2021. http://link.springer.com/article/10.1007/s10489-021-02340-3

J26. Protogerou, A., Papadopoulos, S., Drosou, A., Tzovaras., D., and **Refanidis, I**. A graph neural network method for distributed anomaly detection in IoT. Evolving Systems 12, 19-36 (2021).
https://doi.org/10.1007/s12530-020-09347-0

J27. Nikolaidis, S., Refanidis, I. Consolidating incentivization in distributed neural network training via decentralized autonomous organization. Neural Comput & Applic (2022). https://doi.org/10.1007/s00521-022-07374-3

International Conferences (with reviewers)

C1. I. Stamelos, **I. Refanidis**, P. Katsaros, A. Tsoukias, I. Vlahavas and A. Pomportsis. Automating the Evaluation of Educational Software. *In Proceedings of the 5th International Conference of the Decision Sciences Institute*, Athens, 4-7 July 1999, 1369-1373.

C2. **I. Refanidis** and I. Vlahavas. SSPOP: A State-Space Non-Linear Planner. *In Proceedings of the 3rd SCI'99 / 5th ISAS'99*, Orlando, Florida, 1999, V240-246.

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University Notes

Π1. Computation theory and automata, 2003.
Π2. Neural networks, 2003.
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Theses

PhD thesis

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CITATIONS

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According to Google Scholar, there are (26/11/2023):
- 1034, 252 since 2018.
- h-index is 15 (8 since 2018).
- i10-index is 27 (5 since 2018).

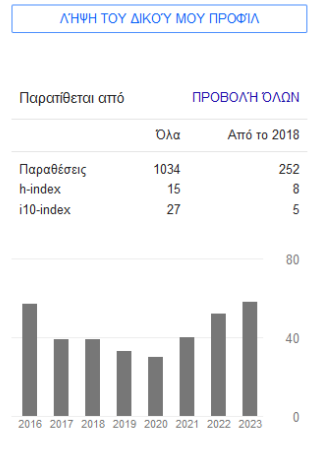The (updated) detailed set of citations to my publications can be found at
https://goo.gl/0x0nrN .

Παραθέσεις ανά έτος

According to **Scopus** (26/11/2023), there are:
- 58 documents
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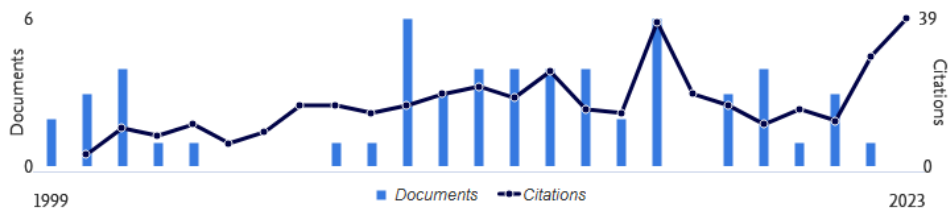
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