

Παύλος Ειρηνάκης

Παρούσα θέση: **Αναπληρωτής Καθηγητής**
Αναλυτικές μέθοδοι στη Βιομηχανία
Πανεπιστήμιο Πειραιώς
Σχολή Ναυτιλίας και Βιομηχανίας
Τμήμα Βιομηχανικής Διοίκησης και Τεχνολογίας

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Σπουδές

06.2006 – 10.2010 **Διδακτορικό δίπλωμα στην Επιχειρησιακή Έρευνα**
Τμήμα Διοικητικής Επιστήμης και Τεχνολογίας
Οικονομικό Πανεπιστήμιο Αθηνών
Διατριβή: “2-sided and multi-sided Stable Matchings:
Structures, Algorithms and Applications”

10.2002 – 06.2004 **Μεταπτυχιακό δίπλωμα στην Οργάνωση και Διοίκηση Επιχειρήσεων**
Τμήμα Οργάνωσης και Διοίκησης Επιχειρήσεων και
Τμήμα Μάρκετινγκ και Επικοινωνίας
Οικονομικό Πανεπιστήμιο Αθηνών

10.1998 – 06.2002 **Πτυχίο Πληροφορικής**
Τμήμα Πληροφορικής
Οικονομικό Πανεπιστήμιο Αθηνών

Ακαδημαϊκή/Ερευνητική εμπειρία

07.2024 – Σήμερα **Αναπληρωτής Καθηγητής**
Τμήμα Βιομηχανικής Διοίκησης και Τεχνολογίας
Πανεπιστήμιο Πειραιώς

09.2018 – 07.2024 **Επίκουρος Καθηγητής**
Τμήμα Βιομηχανικής Διοίκησης και Τεχνολογίας
Πανεπιστήμιο Πειραιώς

05.2013 – 09.2018 **Μηχανικός Έρευνας και Ανάπτυξης**
Danaos Research Center
Danaos Management Consultants

07.2012 – 09.2018 **Μεταδιδακτορικός Ερευνητής**
Τμήμα Διοικητικής Επιστήμης και Τεχνολογίας
Οικονομικό Πανεπιστήμιο Αθηνών

08.2011 – 06.2012 **Postdoctoral Research Fellow**
Lane Department of Computer Science and Electrical Engineering
West Virginia University

10.2010 – 07.2011 **Μεταδιδακτορικός Ερευνητής**
Τμήμα Διοικητικής Επιστήμης και Τεχνολογίας
Οικονομικό Πανεπιστήμιο Αθηνών

Διδακτική Εμπειρία

10.2018 – Σήμερα **Πανεπιστήμιο Πειραιώς**
Τμήμα Βιομηχανικής Διοίκησης και Τεχνολογίας
Διασφάλιση και Έλεγχος Ποιότητας: X19, X20, X21, X22, X24
Διοίκηση Έργων: E20, E21, E22
Επιχειρηματική Αναλυτική: X22, X23, X24
Επιχειρησιακή Έρευνα I: E19, E24
Επιχειρησιακή Έρευνα II: X18, X23
Συστήματα Αναμονής και Προσομοίωση: E19, E20, E21, E22, E23
Εργαστήριο Πληροφορικής: X24

Μεταπτυχιακό στη Βιομηχανική Διοίκηση και Τεχνολογία

Αναλυτικές Μέθοδοι: X18
Δεδομένα Μεγάλης Κλίμακας και Επιχειρηματική Αναλυτική: E22, E23, E24
Διοίκηση Έργων: X19, X20, X21
Διοίκηση Έργων στην Πράξη: X23, X24

10.2012 – 02.2019 **Χαροκόπειο Πανεπιστήμιο**
Μεταπτυχιακό σε Τεχνολογίες και Εφαρμογές Ιστού
Ειδικά θέματα υπολογιστικών μεθόδων: X12, X13, X14
Υπολογισμός και βελτιστοποίηση: X15, X16, X17, X18

10.2017 – 07.2018 **Ελληνικό Ανοικτό Πανεπιστήμιο**
Τμήμα Πληροφορικής
Διακριτά μαθηματικά και μαθηματική λογική: 2017-18

10.2013 – 08.2018 **Οικονομικό Πανεπιστήμιο Αθηνών**
Τμήμα Διοικητικής Επιστήμης και Τεχνολογίας
Μαθηματικός προγραμματισμός: E18
Μεταπτυχιακό στη Δημόσια Διοίκηση και Πολιτική
Τεχνικές λήψης αποφάσεων στον δημόσιο τομέα: X13

Επιστημονικός Υπεύθυνος σε Ερευνητικά Προγράμματα

01.2023 – Σήμερα **MODAPTO: Modular Manufacturing and Distributed Control via Interoperable Digital Twins**
Horizon-CL4-2022-TWIN-TRANSITION-01: MODAPTO – GA no. 101091996
Επιστημονικός Υπεύθυνος (Πανεπιστήμιο Πειραιώς)

11.2019 – 04.2023 **FACTLOG: Energy-aware Factory Analytics for Process Industries**
Horizon-DT-SPIRE-06-2019 - GA no. 869951
Επιστημονικός Υπεύθυνος (Πανεπιστήμιο Πειραιώς)

Συμμετοχή σε Ερευνητικά Προγράμματα

08.2023 – Σήμερα **PLOOTO: Product Passport for through Twinning of Circular Value Chains**
HORIZON-CL4-2022-RESILIENCE-01: PLOOTO – GA no. 101092008

02.2021 – Σήμερα **AQUASPICE: Advancing Sustainability of Process Industries through Digital and Circular Water Use Innovations**
Horizon-CE-SPIRE-07-2020: AQUASPICE - GA no. 958396

09.2016 – 08.2019 **DISRUPT: Decentralised architectures for optimised operations via virtualized processes and manufacturing ecosystem collaboration**
Horizon-FOF.11-2016: DISRUPT - GA no. 723541

06.2015 – 05.2018 **U-TURN: Rethinking urban transportation through advanced tools and supply chain collaboration**
Horizon-MG.5.2-2014: U-TURN - GA no. 635773

05.2013 – 05.2015 **AMINESS: Ανάλυση ναυτιλιακής πληροφορίας για περιβαλλοντικά ασφαλή ναυσιπλοΐα**
Συνεργασία: AMINESS - 11-ΣΥΝ-9-1071

10.2012 - 09.2015 **Από τη θεωρία γραφημάτων στα μητροειδή: Αλγοριθμικά προβλήματα και εφαρμογές**
Θαλής 85418, MIS: 379437

04.2012 - 09.2015 **Ενεργειακή αποτελεσματικότητα οδικών δικτύων και οχημάτων: Μέτρηση, τιμολόγηση, περιφερειακές και περιβαλλοντικές επιπτώσεις**
Θαλής Δ.562, MIS: 380232

05.2012 - 06.2015 **Πολυδιάστατη αντιστοίχιση και συστήματα περιορισμών διαφορετικότητας**
Αρχιμήδης III, Υποέργο 28, MIS: 379389

12.2012 - 12.2014 **Αλγοριθμικά και δομικά προβλήματα ευσταθούς ταιριάσματος**
Διμερής E&T συνεργασία Ελλάδας-Σλοβακίας, EP 1993

06.2012 - 04.2014 **ARTISAN: Energy Aware Enterprise Systems for low-carbon intelligent operations**
FP7 - ICT.7-2011: ARTISAN - GA no. 287993

08.2011 - 06.2012 **Polyhedral Approaches to Selected Problems in Computational Logic**
NSF Award CCF-0827397

06.2011 - 03.2012	Προβλήματα αντιστοίχισης και περιορισμοί διαφορετικότητας Πρόγραμμα Ενίσχυσης Βασικής Έρευνας
03.2009 - 02.2010	Πολυμερή ευσταθή ταιριάσματα: Δομές και αλγόριθμοι Πρόγραμμα Ενίσχυσης Βασικής Έρευνας

Δημοσιεύσεις

Άρθρα σε Διεθνή Επιστημονικά Περιοδικά

- [J1] Eirinakis P, Magos D, Mourtos I, Miliotis P (2012). Finding all stable pairs and solutions for the many-to-many Stable Matching problem. *INFORMS Journal on Computing* 24(2), 245-259.
- [J2] Eirinakis P, Ruggieri S, Subramani K, Wojciechowski P (2012). A complexity perspective on entailment of parameterized linear constraints. *Constraints* 17, 461-487.
- [J3] Eirinakis P, Magos D, Mourtos I, Miliotis P (2013). Finding a minimum-regret many-to-many Stable Matching. *Optimization: A Journal of Mathematical Programming and Operations Research* 62(8), 1007-1018.
- [J4] Eirinakis P, Ruggieri S, Subramani K, Wojciechowski P (2014). On Quantified Linear Implications. *Annals of Mathematics and Artificial Intelligence* 71(4), 301-325.
- [J5] Ruggieri S, Eirinakis P, Subramani K, Wojciechowski P (2014). On the complexity of Quantified Linear Systems. *Theoretical Computer Science* 518, 128-134.
- [J6] Eirinakis P, Magos D, Mourtos I (2014). Blockers and antiblockers of stable matchings. *Theoretical Computer Science* 524, 126-133.
- [J7] Eirinakis P, Magos D, Mourtos I, Miliotis P (2014). Polyhedral aspects of stable marriage. *Mathematics of Operations Research* 39(3), 656-671.
- [J8] Cechlárová K, Eirinakis P, Fleiner T, Magos D, Mourtos I, Potpinková E (2014). Pareto optimality in many-to-many matching problems. *Discrete Optimization* 14, 160-169.
- [J9] Eirinakis P, Magos D, Mourtos I (2014). From one stable marriage to the next; how long is the way? *SIAM Journal on Discrete Mathematics* 28(4), 1971-1979.
- [J10] Shankar N, Subramani K, Eirinakis P (2015). Identifying negative cost cycles in strongly polynomial time. *Nordic Journal of Computing* 15(2), 154-171.
- [J11] Williamson M, Eirinakis P, Subramani K (2016). Fast algorithms for the Undirected Negative Cost Cycle Detection problem. *Algorithmica* 74, 270-325.
- [J12] Cechlárová K, Eirinakis P, Fleiner T, Magos D, Manlove DF, Mourtos I, Oceláková E, Rastegari B (2016). Pareto Optimal Matchings in Many-to-Many Markets with Ties. *Theory of Computing Systems* 59(4), 700-721.
- [J13] Wojciechowski P, Eirinakis P, Subramani K (2016). Analyzing restricted fragments of the theory of linear arithmetic. *Annals of Mathematics and Artificial Intelligence* 77(1-3), 245-266.
- [J14] Eirinakis P, Williamson M, Subramani K (2017). On the Shoshan-Zwick algorithm for the all-pairs shortest path problem. *Journal of Graph Algorithms and Applications* 21(2), 177-181.
- [J15] Eirinakis P, Magos D, Mourtos I (2018). The stable b-matching polytope revisited. *Discrete Applied Mathematics* 250, 186-201.
- [J16] Eirinakis P, Magos D, Mourtos I (2020). The diameter of the stable marriage polytope: Bounding from below. *Discrete Mathematics* 343(5), 111804.
- [J17] Eirinakis P, Kasapidis G, Mourtos I, Repoussis P, Zampou E (2021). Situation-aware manufacturing systems for capturing and handling disruptions. *Journal of Manufacturing Systems* 58, 365-383.

- [J18] Rožanec JM, Trajkova E, Lu J, Sarantinoudis N, Arampatzis G, Eirinakis P, Mourtos I, Onat MK, Yilmaz DA, Košmerlj A, Kenda K (2021). Cyber-Physical LPG Debutanizer Distillation Columns: Machine-Learning-Based Soft Sensors for Product Quality Monitoring. *Applied Sciences* 11(24), 11790 (SI: Smart Resilient Manufacturing).
 - [J19] Eirinakis P, Lounis S, Plitsos S, Arampatzis G, Kalaboukas K, Kenda K, Lu J, Rožanec JM, Stojanovic N. (2022). Cognitive Digital Twins for Resilience in Production: A Conceptual Framework. *Information* 13(1), 33 (SI: Cognitive Digital Twins: Challenges and Opportunities for Process and Manufacturing Industries).
 - [J20] Eirinakis P, Mourtos I, Zampou E (2022). Random Serial Dictatorship for horizontal collaboration in logistics. *Omega*, 102662.
 - [J21] Spyrou-Sioula K, Kontopoulos I, Kaklis D, Makris A, Tserpes K, Eirinakis P, Oikonomou F (2022). AIS-Enabled Weather Routing for Cargo Loss Prevention. *Journal of Marine Science and Engineering* 10, 1755.
 - [J22] Eirinakis P, Mourtos I, Samaris M (2024). On Pareto optimal balanced exchanges. *Discrete Optimization* 52, 100835.
 - [J23] Eirinakis P, Koronakos G, Plitsos P (2024). Optimizing LPG production under quality specifications by preprocessing MILP with Pareto dominance and DEA. *International Journal of Production Research*, 1-24.
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Άρθρα σε Διεθνή Επιστημονικά Συνέδρια

- [C1] Eirinakis P, Magos D, Mourtos I, Miliotis P (2007). Hyperarc consistency for the Stable Admissions problem. In: *Proceedings of the 19th IEEE International Conference on Tools with Artificial Intelligence (ICTAI07)* 1, Patra, Greece, pp. 239-242.
- [C2] Eirinakis P, Magos D, Mourtos I, Miliotis P (2008). Finding all stable pairs for the (many-to-many) Stable Matching. In: *Proceedings of 1st International Workshop on Matching Under Preferences 2008 (MATCH-UP08)*, Reykjavik, Iceland, pp. 145-156.
- [C3] Eirinakis P, Ruggieri S, Subramani K, Wojciechowski P (2012). Computational complexity of inclusion queries over polyhedral sets. In: *Proceedings of the International Symposium on Artificial Intelligence and Mathematics (ISAIM12)*, Fort Lauderdale FL, USA.
- [C4] Wojciechowski P, Eirinakis P, Subramani K (2014). Variants of Quantified Linear Programming and Quantified Linear Implication. In: *Proceedings of the International Symposium on Artificial Intelligence and Mathematics (ISAIM14)*, Fort Lauderdale FL, USA.
- [C5] Cechlárová K, Eirinakis P, Fleiner T, Magos D, Mourtos I, Potpinková E (2015). Approximation Algorithms for the Teachers Assignment Problem. In: *Proceedings of the 13th International Symposium on Operations Research in Slovenia (SOR15)*, Bled, Slovenia, pp. 479-484.
- [C6] Archontaki S, Eirinakis P, Varelas T (2015). Fermat minimizes fuel cost expenses in anisotropic sea passages. In: *Proceedings of the 4th International Symposium & 26th National Conference on Operational Research (HELORS15)*, Chania, Greece, pp. 191-195.
- [C7] Cechlárová K, Eirinakis P, Fleiner T, Magos D, Manlove DF, Mourtos I, Oceláková E, Rastegari B (2015). Pareto Optimal Matchings in Many-to-Many Markets with Ties. In: *Algorithmic Game Theory, LNCS 9347, Proceedings of the 8th International Symposium on Algorithmic Game Theory (SAGT15)*, Springer Berlin Heidelberg, Saarbrücken, Germany, pp. 27-39.
- [C8] Wojciechowski P, Subramani K, Eirinakis P (2016). On the computational complexities of Quantified Integer Programming variants. In: *Proceedings of the International Symposium on Artificial Intelligence and Mathematics (ISAIM16)*, Fort Lauderdale FL, USA.

- [C9] Eirinakis P, Buenabad-Chavez J, Fornasiero R, Gokmen H, Mascolo J-E, Mourtos I, Spieckermann S, Tountopoulos V, Werner F, Woitsch R (2017). A Proposal of Decentralised Architecture for Optimised Operations in Manufacturing Ecosystem Collaboration. In: *Proceedings of the Working Conference on Virtual Enterprises (PRO-VE17)*, pp. 128-137. Springer, Cham.
- [C10] Eirinakis P, Kalaboukas K, Lounis S, Mourtos I, Rožanec JM, Stojanovic N, Zois G (2020). Enhancing Cognition for Digital Twins. In: *Proceedings of the 2020 IEEE International Conference on Engineering, Technology and Innovation (ICE/ITMC20)*, pp. 1-7. IEEE.
- [C11] Eirinakis P, Koronakos G (2022). A mathematical programming approach for optimizing on-specs production for industrial processes under input uncertainty. *IFAC-PapersOnLine*, 55(10), pp.2822-2827.
- [C12] Kaklis D, Eirinakis P, Giannakopoulos G, Spyropoulos C, Varelas TJ, Varlamis I (2022). A big data approach for Fuel Oil Consumption estimation in the maritime industry. In: *Proceedings of the 2022 IEEE 8th International Conference on Big Data Computing Service and Machine Learning Applications (BSD22)*, Fremont, CA, United States, pp. 39-47.
- [C13] Kaklis D, Varelas TJ, Varlamis I, Eirinakis P, Giannakopoulos G, Spyropoulos CV (2023). From STEAM to Machine: Emissions control in the shipping 4.0 era. In *SNAME 8th International Symposium on Ship Operations, Management and Economics*. OnePetro.
- [C14] Eirinakis P, Iung B, Mourtos I, Plitsos S, Stojanovic L, Triantafyllou G, Voisin A (2024). Modular manufacturing and distributed control via interoperable digital twins. In *18th IFAC Symposium on Information Control Problems in Manufacturing (INCOM 2024)*, Vienna, Austria (in press).
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Ανακοινώσεις σε Διεθνή Επιστημονικά Συνέδρια

- [P1] Eirinakis P, Magos D, Mourtos I, Miliotis P (2009). On weighted stable b-matchings and their implications on Supply Chain Networks. In: *20th International Symposium on Mathematical Programming (ISMP'09)*, Chicago, IL, USA.
- [P2] Eirinakis P, Magos D, Mourtos I, Miliotis P (2010). Non-stable pairs in the Stable Marriage problem and multi-index configurations. In: *24th European Conference on Operational Research (EURO'10)*, Lisbon, Portugal.
- [P3] Eirinakis P, Magos D, Mourtos I, Miliotis P (2011). Finding a minimum-regret many-to-many Stable Matching. In: *1st International Symposium & 10th Balkan Conference on Operational Research (BALCOR'11)*, Thessaloniki, Greece.
- [P4] Eirinakis P, Magos D, Mourtos I, Miliotis P (2012). On the structural characteristics of the Stable Marriage polytope. In: *2nd International Workshop on Matching Under Preferences 2012 (MATCH-UP'12)*, Budapest, Hungary.
- [P5] Eirinakis P, Ruggieri S, Subramani K, Wojciechowski P (2012). Quantified Linear Programs and Implications. In: *8th Scandinavian Logic Symposium (SLS'12)*, Roskilde University, Denmark.
- [P6] Eirinakis P, Ruggieri S, Subramani K, Wojciechowski P (2013). Analysis and Applications of Quantified Linear Programming and Quantified Linear Implication. In: *13th INFORMS Computing Society Conference (ICS'13)*, Santa Fe, NM, USA.
- [P7] Eirinakis P, Ruggieri S, Subramani K, Wojciechowski P (2013). On the conjunctive fragments of theory of linear arithmetic. In: *Automated Deduction: Decidability, Complexity, Tractability 2013 (ADDCT'13)*, Lake Placid, NY, USA.
- [P8] Eirinakis P, Magos D, Mourtos I (2013). Exploring the many-to-many Stable Matching polytope and transportation-related generalizations. In: *26th European Conference on Operational Research (EURO'13)*, EURO - INFORMS Joint International Meeting, Rome, Italy.

- [P9] Cechlárová K, Eirinakis P, Fleiner T, Magos D, Mourtos I, Potpinková E (2014). Pareto-optimal many-to-many-matchings: complexity and integer programs. In: *20th Conference of the International Federation of Operational Research Societies (IFORS'14)*, Barcelona, Spain.
- [P10] Eirinakis P, Magos D, Mourtos I (2014). On the polytope of closed subsets of directed graphs and its extension to ordinal transportation. In: *20th Conference of the International Federation of Operational Research Societies (IFORS'14)*, Barcelona, Spain.
- [P11] Eirinakis P (2014). Pareto optimal matchings. In: *18th International Conference on Mathematical Methods in Economy and Industry (MMEI'14)*, Smolenice, Slovakia.
- [P12] Eirinakis P, Magos D, Mourtos I (2014). Polyhedral results for 2-sided stable matchings and ordinal transportation. In: *INFORMS Annual Meeting 2014*, San Francisco, CA, USA.
- [P13] Eirinakis P, Magos D, Mourtos I (2015). Linear and Integer Programming formulations for Stable Allocations and House Allocations (poster). In: *3rd International Workshop on Matching Under Preferences (MATCH-UP'15)*, Glasgow, UK.
- [P14] Eirinakis P, Magos D, Mourtos I (2015). Polyhedral aspects of stable b-matching. In: *3rd International Workshop on Matching Under Preferences (MATCH-UP'15)*, Glasgow, UK.
- [P15] Eirinakis P, Magos D, Mourtos I (2015) A model for House Allocation. In: *International Conference 'Science in Technology' (SCinTE'15)*, Athens, Greece.
- [P16] Cechlárová K, Eirinakis P, Fleiner T, Magos D, Manlove DF, Mourtos I, Oceláková E, Rastegari B (2015). Pareto Optimal Matchings in Many-to-Many Markets with Ties. In: *9th Conference on Economic Design (CoED'15)*, Istanbul, Turkey.
- [P17] Wojciechowski P, Eirinakis P, Subramani K (2015). Quantifying Linear Programs and Implications. In: *22nd International Symposium on Mathematical Programming (ISMP'15)*, Pittsburgh, PA, USA.
- [P18] Eirinakis P, Magos D, Mourtos I (2015). A minimal polyhedral description of stable b-matching. In: *22nd International Symposium on Mathematical Programming (ISMP'15)*, Pittsburgh, PA, USA.
- [P19] Zampou E, Trachana T, Eirinakis P, Zeimpekis V (2016). Collaborative logistics models in urban areas: Current status and evidence from the Fast Moving Consumer Goods sector. In: *28th European Conference on Operational Research (EURO'16)*, Poznan, Poland.
- [P20] Eirinakis P, Mourtos I (2016). Pareto-optimal allocations. In: *3rd International Conference on Energy, Sustainability and Climate Change (ESCC'16)*, Marathon, Greece.
- [P21] Zeimpekis V, Ntzoufas A, Trachana T, Zampou E, Eirinakis P (2017). Shared logistics opportunities in urban areas: Assessing route sharing practices for 3PL freight distributions in the region of Attica. In: *6th International Symposium and 28th National Conference on Operational Research (HELORS'17)*
- [P22] Eirinakis P, Mourtos I (2018). Pareto-optimal allocations and their application in logistics. In: *Operational Research Society Conference (OR60)*, Lancaster, UK.
- [P23] Eirinakis P, Mourtos I, Zampou E (2019). Energy-aware Manufacturing Systems. In: *IFAC Manufacturing Modelling, Management and Control (MIM19)*, Berlin, Germany.
- [P24] Samaris M, Eirinakis P, Mourtos M (2021). The Pareto optimal balanced exchange problem. In: *31st European Conference on Operational Research (EURO21)*, Athens, Greece.
- [P25] Mourtos I, Kasapidis G, Repoussis P, Eirinakis P (2021). Combined Production Scheduling and Predictive Maintenance for PCB Manufacturing. In: *31st European Conference on Operational Research (EURO21)*, Athens, Greece.
- [P26] Sarantinoudis N, Tsinarakis G, Kalaboukas K, Eirinakis P, Arampatzis G (2021). Cognitive Manufacturing: The role of process modelling and optimisation. In: *31st European Conference on Operational Research (EURO21)*, Athens, Greece.
- [P27] Eirinakis P, Arampatzis G, Košmerlj A, Rožanec J, Sarantinoudis N (2021). Utilizing an enhanced digital twin to optimize on-specs LPG recovery. In: *31st European Conference on Operational Research (EURO21)*, Athens, Greece.

- [P28] Mourtos I, Vatikiotis S, Eirinakis P, Plitsos S (2023). MODAPTO: Modular Manufacturing and distributed control via interoperable digital twins. In: Leading and Managing in the Digital Era (LMDE23) Research Colloquium, Syros, Greece.
- [P29] Eirinakis P (2024). Keynote Speech: Data, Models and Algorithms for Optimal Weather Routing: A Digital Twin approach. In: European Logistics Association (ELA) PhD Workshop, Athens, Greece.
- [P30] Eirinakis P, Tsakoumis D, Koronakos G (2024). Optimizing energy consumption of robotic arm movements based on an enhanced Digital Twin approach. In: European Conference on Operational Research (EURO24), Copenhagen, Denmark.
- [P31] Mourtos I, Eirinakis P, Samaris M (2024). Pareto optimality in graphs: circulations and colorings. In: European Conference on Operational Research (EURO24), Copenhagen, Denmark.
- [P32] Tsakoumis D, Giannakos K, Plitsos S, Eirinakis P, Vivo G (2024). Utilizing Graph Neural Networks for autonomous picking sequence optimization. In: European Conference on Operational Research (EURO24), Copenhagen, Denmark.
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Κεφάλαια Βιβλίων

- [B1] Rožanec JM, Eirinakis P, Arampatzis G, Stojanovic N, Kalaboukas K, Lu J, Zheng X, Kiritsis D (2024). Chapter 28: Cognitive Digital Twins in the Process Industries. In: *Handbook of Digital Twins, 1st Edition*, Ed. Zhihan Lyu, pp. 473-497, CRC Press.
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Προδημοσιεύσεις / Λοιπές Δημοσιεύσεις

- [M1] Eirinakis P, Magos D, Mourtos I, Miliotis P (2010). Stability in a specialized Supply Chain setting. In: *Proceedings of the 7th Management Science and Technology Student Conference, Astrolavos 13*, Greek Mathematical Society, Athens, Greece, pp. 68-79.
- [M2] Cechlarova K, Eirinakis P, Fleiner T, Magos D, Mourtos I, Oceláková E (2014). Approximation algorithms for the teachers assignment problem. *Institute of Mathematics Preprint, series A*, (5), 1-10.
- [M3] Cechlárová K, Eirinakis P, Fleiner T, Magos D, Manlove DF, Mourtos I, Oceláková E, Rastegari B (2015). Pareto Optimal Matchings in Many-to-Many Markets with Ties. arXiv:1507.02866
- [M4] Eirinakis P, Williamson M, Subramani K (2016). On the Shoshan-Zwick algorithm for the all-pairs shortest path problem. arXiv:1603.08627.
- [M5] Eirinakis P, Mourtos I, Samaris M (2021). Pareto optimal exchange with indifferent endowments. arXiv:2104.00465.
- [M6] Rožanec JM, Trajkova E, Lu J, Sarantinoudis N, Arampatzis G, Eirinakis P, Mourtos I, Onat MK, Yilmaz DA, Košmerlj A, Kenda K (2021). Cyber-Physical LPG Debutanizer Distillation Columns: Machine Learning-Based Soft Sensors for Product Quality Monitoring. Preprints, 2021100364.
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- [T1] Eirinakis P (2004). Development of a Decision Support System using Fuzzy Logic. MBA Thesis (in Greek). Athens University of Economics and Business.

[T2] Eirinakis P (2010). 2-sided and multi-sided Stable Matchings: Structures, Algorithms and Applications. PhD Thesis. Athens University of Economics and Business.

Κριτής σε Επιστημονικά Περιοδικά

- Annals of Operations Research
- Computers in Industry
- Computers & Industrial Engineering
- Electronics (SI: Big Data and Artificial Intelligence for Industry 4.0)
- International Journal of Industrial Engineering and Management
- Journal of Manufacturing Systems
- Journal of Industrial Information Integration
- Journal of the Operations Research Society of China
- Theoretical Computer Science
- Operational Research: An International Journal
- Optimization Letters

Κριτής σε Επιστημονικά Συνέδρια

PCI23	27th Panhellenic Conference on Informatics
PCI22	26th Panhellenic Conference on Informatics
AAMAS22	International Conference on Autonomous Agents and Multiagent Systems 2022
PCI21	25th Panhellenic Conference on Informatics
ADT21	7th International Conference on Algorithmic Decision Theory
ECIS21	29th European Conference on Information Systems
IPCO20	21st Conference on Integer Programming and Combinatorial Optimization
PCI20	24th Panhellenic Conference on Informatics
MATCH-UP19	5th International Workshop on Matching Under Preferences
DISC19	33rd International Symposium on Distributed Computing
PCI17	21st Panhellenic Conference on Informatics
ICPP17	46th International Conference on Parallel Processing
ECIS17	25th European Conference on Information Systems
SWAT16	15th Scandinavian Symposium and Workshops on Algorithm Theory
PCI15	19th Panhellenic Conference on Informatics
ICALP15	42nd International Colloquium on Automata, Languages and Programming
SEA15	14th International Symposium on Experimental Algorithms
PCI14	18th Panhellenic Conference on Informatics
ESA13	21st European Symposium on Algorithms
SODA12	ACM-SIAM Symposium on Discrete Algorithms 2012
ESA12	20th European Symposium on Algorithms
SWAT12	13th Scandinavian Symposium and Workshops on Algorithm Theory
ICALP11	38th International Colloquium on Automata, Languages and Programming

Υπηρεσία προς την Ακαδημαϊκή Κοινότητα

Associate Editor 30th European Conference on Information Systems (ECIS22)
Track on Artificial Intelligence in IS Research and Practice

Session Organizer	31st European Conference on Operational Research (EURO21) Οργάνωση 2 συνεδριών με τίτλο: OR in Manufacturing and Digital Twins
PC member	5th International Workshop on Matching Under Preferences (MATCH-UP'19)
PC member	Panhellenic Conference on Informatics (PCI) 2014 – 2018, 2020-Σήμερα

Ακαδημαϊκές Επισκέψεις

02.2013, 09.2014 **Pavol Jozef Šafárik University**
Institute of Mathematics
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Γλώσσες

English	Excellent. Certificate of Proficiency in English, Cambridge.
German	Fair. Grundstufe Prüfung, Goethe Institut.

Γνώσεις Προγραμματισμού

C, C++, C#, VB, Java, SQL, CPLEX-OPL, Python