Vassilios Canellidis

Contact Information

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Education

2011	Ph.D., Optimization Methods for Advanced Manufacturing Systems, Department of Industrial Management and Technology, University of Piraeus.
2006	M.Sc. in Techno-Economic Systems, School of Electrical and Computer Engineering, National Technical University of Athens.
2002	Bachelor in Industrial Management and Technology, Department of Industrial Management and Technology, University of Piraeus.

Professional/Research Experience

6/2016-2/2024	Independent Authority for Public Revenue (IAPR), Tax and Customs Academy.
7/2022-09-20222	Researcher, Project: Implementation of scientific research on new methodologies and statistical processing of data resulting from the application of Regulation (EC) No 1371/2007 on the rights and obligations of railway passengers for the years 2020-2021, for the needs of the Railway Regulatory Authority.
2020-2021	University Scholarship: Program 'Acquisition of Academic Teaching Experience for New PhD Holders 2020-2021 at the University of Piraeus.
1/2015-09/2015	"Kallipos" Repository - Development of e-books, Hellenic Academic Electronic (Text)books Programme, Hellenic Ministry of Education.
08/2014-06/2015	Redesign and Recycling of Photovoltaic Panels, SYNERGASIA Programme, funded by General Secretariat for Research and Technology, Hellenic Ministry of Education.
04/2014-09/2014	3D Structures for Tissue Engineering, THALIS Programme, funded by the Hellenic Ministry of Education.
07/2014 - 05/2016	Technical support for the Laboratories of the Department of Industrial Management & Technology, Postgraduate Program in Industrial Management and Technology, University of Piraeus.
07/2008-11/2008	National Greek Anthropometric Survey, funded by ELKEDE Design and Technology Centre, University of Piraeus.
03/2006-08/2007	EPEAEK, "Development of the Graduate Studies Program in the Department of Production Engineering and Management".
06/2009 - 05/2014	Technical support for the Laboratories of the Department of Industrial Management & Technology, Postgraduate Program in Organization and Management of Industrial Systems, University of Piraeus.

Academic Positions

02/2024	Assistant Professor, Department of Industrial Management, University of Piraeus.
10/2021-2/2024	Postgraduate Courses : • **Industry 4.0 Systems** • **Computational Tools for Problem Solving and Analysis** Department of Industrial Management & Technology, Postgraduate Program in Industrial Management and Technology, University of Piraeus
3/2021-6/2021	**Undergraduate Course : Industrial Analytics**, Department of Industrial Management & Technology, University of Piraeus.
10/2020-1/2021	**Undergraduate Course : Production Systems - Industry 4.0,** Department of Industrial Management & Technology, University of Piraeus.
09/2019-02/2020 11/2018-02/2019 09/2017-02/2018 10/2016-02/2017 10/2015-02/2016 11/2014-02/2015	Postgraduate Courses : • **Computer Aided Product Design** • **Computational Tools for Problem Solving and Analysis** Department of Industrial Management & Technology, Postgraduate Program in Industrial Management and Technology, University of Piraeus
2004 - 2015	Teaching Assistant, Department of Industrial Management, University of Piraeus, Course: CAD/CAM/CAE systems I..

Publications

Articles in Scientific Journals

1. Kotzinos, A., **Canellidis, V.,** & Psychoyios, D. (2023). Informal Sector, ICT Dynamics, and the Sovereign Cost of Debt: A Machine Learning Approach. Computation, 11(5), 90. https://doi.org/10.3390/computation11050090

2. **Canellidis, V.,** & Sofianopoulou, S. (2022). Analytics Framework for Comparing National Performance Achievements in International Mathematical Olympiads. Education Sciences, 12(11), 838. https://doi.org/10.3390/educsci12110838

3. Bilalis, L., **Canellidis, V**., Papatheodorou, T., & Giannatsis, J. (2022). Direct Digital Manufacturing of a Customized Face Mask. Journal of Manufacturing and Materials Processing, 6(5). https://doi.org/10.3390/jmmp6050126

4. Tambouratzis, T., **Canellidis, V**., & Chalikias, M. (2021). Realizable and adaptive maximization of environmental sustainability at the country level using evolutionary strategies. Communications in Statistics: Case Studies, Data Analysis and Applications, 7(4), 590–623. https://doi.org/10.1080/23737484.2021.1942326

5. Tambouratzis, T., & **Canellidis, V**. (2014). Reward–Penalty Assignments and Genetic Algorithms for Ordinal Interval Number Group Decision Making. International Journal of Intelligent Systems, 29(8), 727–750. https://doi.org/10.1002/int.21660.

6. **Canellidis, V**., Giannatsis, J., & Dedoussis, V. (2013). Efficient parts nesting schemes for improving stereolithography utilization. Computer-Aided Design, 45(5), 875–886. https://doi.org/10.1016/j.cad.2012.12.002.

7. **Canellidis, V**., Giannatsis, J., & Dedoussis, V. (2009). Genetic-algorithm-based multi-objective optimization of the build orientation in stereolithography. The International Journal of Advanced Manufacturing Technology, 45(7), 714–730. https://doi.org/10.1007/s00170-009-2006-y.

8. Dedoussis, V., **Canellidis, V**., & Mathioudakis, K. (2008). Aerodynamic experimental investigation using stereolithography fabricated test models: The case of a linear compressor blading cascade. Virtual and Physical Prototyping, 3(3), 151–157. https://doi.org/10.1080/17452750802120201.

9. **Canellidis, V**., Dedoussis, V., Mantzouratos, N., & Sofianopoulou, S. (2006). Pre-processing methodology for optimizing stereolithography apparatus build performance. Computers in Industry, 57(5), 424–436. https://doi.org/10.1016/j.compind.2006.02.004.

10. Sofianopoulou, S., Papaioannou, A. and **Canellidis, V.** (2006), Genetic algorithm application to the cellular manufacturing problem, Acta Mechanica Slovaca, Vol. 2-A, pp. 469-478.

Articles in Book Series

11. **Canellidis, V.,** Giannatsis, J., & Dedoussis, V. (2016). Evolutionary Computing and Genetic Algorithms: Paradigm Applications in 3D Printing Process Optimization. In G. A. Tsihrintzis, M. Virvou, & L. C. Jain (Eds.), Intelligent Computing Systems: Emerging Application Areas (pp. 271–298). Springer Berlin Heidelberg. https://doi.org/10.1007/978-3-662-49179-9_13.

12. **Canellidis, V**., Giannatsis, J. and V. Dedoussis (2014), Heuristic schemes for the efficient utilization of 3D printing stereolithography apparatus, Lecture Notes in Management Science, Vol. 6, pp. 159–166.

13. Giannnatsis, J., Sofos, K., **Canellidis, V.,** Karalekas, D. and Dedoussis, V. (2012), Investigating the influence of build parametres on the mechanical properties of FDM parts, Innovative Developments in Virtual and Physical Prototyping, P.J. Bártolo et al., Taylor & Francis Group, London, ISBN 978-0-415-68418-7.

14. **Canellidis, V.,** Dedoussis, V., Sofianopoulou, S. (2005), Application of Simulated Annealing in Improving the Performance of Stereolithography, Virtual Modeling and Rapid Manufacturing - Advanced Research in Virtual and Rapid Prototyping, P.J. Bártolo et al., published by Taylor & Francis, pp. 501-507.

Books

15. Dedousis, V., Giannatsis, I., & Kanellidis, V. (2015). Συστήματα CAD [Undergraduate textbook]. Kallipos, Open Academic Editions. https://dx.doi.org/10.57713/kallipos-573.

16. Giannatsis, I., Dedousis, V., & Kanellidis, V. (2015). Σύγχρονες τεχνολογίες κατασκευής με τη βοήθεια Η/Υ [Undergraduate textbook]. Kallipos, Open Academic Editions. https://dx.doi.org/10.57713/kallipos-572.

Articles in Scientific Conferences (peer-reviewed)

17. Giannatsis, J., Vassilakos, A., **Canellidis, V**. and Dedoussis, V. (2015), Fabrication of Graded Structures by Extrusion 3D Printing, Proc. of the IEEM 2015 - IEEE International Conference on Industrial Engineering and Engineering Management, 6-9 December, Singapore.

18. Tambouratzis, T., **Kanellidis, V**., (2013), The Scale-up Performance of Genetic Algorithms Applied to Group Decision Problems, International Conference on Adaptive and Natural Computing Algorithms 2013, Lausanne, Switzerland, April 4th-6th, 2013, pp.161-168, M.Tomassini et al., (eds).

19. **Canellidis, V**., Giannatsis, J. and Dedoussis, V. (2011), Simulated Annealing Algorithm Applied to the Nesting of Parts Fabricated by Layer Manufacturing, Lecture Notes in Management Science - Proc. 3rd Inter. Conf. on Applied Operational Research (ICAOR 2011), Istanbul, Vol.3, pp. 323-334.

20. **Canellidis, V**., Giannnatsis, J. and Dedoussis, V. (2010), Effective Nesting of Layer Manufacturing Fabricated Parts Using a Genetic Algorithm and a Bottom-Left Ray Casting

Procedure, International Conference on Industrial Engineering and Engineering Management (IEEM), Macao.

21. Giannnatsis, J., **Canellidis, V.** and Dedoussis, V. (2010), Determination of the Pareto-optimal build orientations in Stereolithography, International Conference on Industrial Engineering and Engineering Management (IEEM), Macao.

22. **Canellidis, V.**, Giannnatsis, J. and Dedoussis, V. (2008), Optimization of build orientation in Layer Manufacturing using an efficient heuristic approach, Proc. of Euro-uRapid 2008 - International Users' Conference on Rapid Prototyping & Rapid Tooling & Rapid Manufacturing, R. Meyer ed., Berlin, pp. 335-342.

23. Dedoussis, V., **Canellidis, V.**, Mathioudakis, K. & Papailiou, K.D. (2007), Effective Aerodynamic Modelling of Turbomachines: Results of a Practical Rapid Application, Proceedings of Euro-uRapid 2007 - International User´s Conference on Rapid Prototyping & Rapid Tooling & Rapid Manufacturing, R. Meyer ed., Frankfurt, pp.125-136.

24. **Canellidis ,V.**, Giannnatsis, J. and Dedoussis, V. (2006), Integrated Decision Support System for Setting-up Stereolithography Machine, Proc. of Euro-uRapid 2006 - International Users' Conference on Rapid Prototyping & Rapid Tooling & Rapid Manufacturing, Meyer R. (ed.), Frankfurt, paper B1-3.

25. Mantzouratos, N., **Canellidis, V.**, Zouzoulis, T., Dedoussis, V., and Sofianopoulou, S.(2002), Pre-Processing Software Tool for Optimizing Stereolithography Apparatus Build Performance, Proc. of Euro-uRapid 2002 - International Users' Conference on Rapid Prototyping & Rapid Tooling & Rapid Manufacturing, R. Meyer ed., Frankfurt.

Extended Abstracts in Conferences

26. **Canellidis, V.**, Giannnatsis, J. and Dedoussis, V. (2009), "Optimizing Additive Fabrication Processes Using Evolutionary Multiobjective Optimization Techniques", 23rd European Conference On Operational Research Bonn.

Other Publications

27. Kotzinos, A., Psychogios, D. and **Kanellidis, V**. (2022), Informal sector, ICT dynamics and sovereign cost of debt. A machine learning approach, 3rd International Symposium in Finance (ISF2022) British Academy of Management.

28. Dedoussis, V., Giannatsis, J. & **Canellidis, V.** (2015), "Operational Research Assisted 3-D Printing and Additive Manufacturing" presented in the CORS/INFORMS 2015 Joint International Meeting, 14-17 June, Montreal, Canada.

Other Scientific Activities

Reviewer (journals):

- *International Journal of Advanced Manufacturing Technology*