

CURRICULUM VITAE
Dr. Panagiotis H. Tsarouhas
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Personal Information

Date of Birth: 27/08/1967
Place of Birth: Lamia, Greece
Family Situation: Married, three children

Scientific Interests

Reliability & Maintainability analysis, Maintenance, Production & Operations Management, Quality Engineering, Six Sigma, Performance Evaluation, Operations Research / Management Science, Applied Probability, Automatic Control.

Education

2005 Ph.D in Quantitative Analysis of Reliability, Quality, and Performance of Automated Production Systems, Department of Mechanical & Industrial Engineering, University of Thessaly, Greece
2000 M. Eng. In Modern Analysis & Design Methods in Industry, Department of Mechanical & Industrial Engineering, University Of Thessaly, Greece
1991 B.S. in Mechanical Engineering, Università degli Studi di Napoli, Federico II, Italy

Professional Activities

2023- present: Professor, University of Thessaly, Department of Computer Science and Biomedical Informatics.
2021 – 2023: Professor, International Hellenic University, Department of Supply Chain Management (Logistics).
2019 – 2021: Associate Professor, International Hellenic University, Department of Supply Chain Management (Logistics).
2016 – 2019: Associate Professor, Technological Educational Institute of Central Macedonia, Department of Logistics
2012 – 2016: Assistant Professor, Technological Educational Institute of Central Macedonia, Department of Logistics
2007 – 2012: Lecturer, Alexander Technological Educational Institute of Thessaloniki, Department of Logistics
2003 – 2007: Hellenic Ministry of Health and Social Solidarity, Technical Department
1994 – 2003: Food Industry Chipita International SA, Technical Department
1992 - 1994 : Hellenic Air Force, Officer of Technical Department

Teaching and Research Position Held

2006 – present: Tutor Professor in postgraduate course on Quality Management and Technology in Hellenic Open University.
2014 – present: Professor in postgraduate course on Logistics management in Technological Educational Institute of Central Macedonia, Greece.
2005 – 2008: Assistant Professor, Department of Electronics Technological Education Institute of Lamia, Greece.
2001 – 2004: Lecture, Department of Informatics and Computer Technology, Technological Education Institute of Lamia, Greece.

2000 – 2004: Teaching and Research Assistant, Department of Mechanical & Industrial Engineering, University of Thessaly, Greece.

Honors

1. **Reviewer on the international Journals:** IEEE Transactions on Reliability, IEEE Transactions of Automation Science and Engineering (IEEE Publications), Journal of Manufacturing Science and Engineering (American Society of Mechanical Engineers - ASMA), Critical Reviews in Food Science and Nutrition (Taylor & Francis Group), The Service Industries Journal (Taylor & Francis Group), Journal of Food Science and Technology (Springer), The Total Quality Management Journal (Emerald Group Publishing Ltd), International Journal of Quality and Reliability Management (Emerald Group Publishing Ltd), Reliability Engineering & System Safety (Elsevier), Journal of Applied Polymer Science (Wiley), Journal of Food Engineering (Elsevier), International Journal of Production Research (Taylor & Francis Group), Production Planning & Control (Taylor & Francis Group), Production & Manufacturing Research (Taylor & Francis Group), International Journal of Computer Aided Engineering and Technology (Inderscience), International Journal of Quality & Reliability Management (Emerald Group Publishing Ltd), Engineering Computations (Emerald Group Publishing Ltd).
2. Member of Editorial Board: International Journal of Probability and Statistics (ISSN: 2168-4871).
3. Member of Editorial Board: Sustainability and Disaster Risk Management (ISSN: 2542-6141).
4. Member of Editorial Board: Applied Sciences (ISSN 2076-3417).
5. Member of Organizing Committee of 1st International Conference on Supply Chain, Katerini, Greece, 1&2 October 2010.
6. Member of Organizing Committee of 2st International Conference on Supply Chain, Katerini, Greece, 5&6 October 2012.
7. Member of Organizing Committee of 3st International Conference on Supply Chain, Athens, Greece, 7&8 November 2015.
8. Member of Organizing Committee of 4st International Conference on Supply Chain, Katerini, Greece, 14&15 September 2018.

Book Chapters

1. **Tsarouhas, P.H.** (2020), “Reliability Availability and Maintainability analysis of industrial systems based on Six Sigma approach”, Chapter in The Handbook of Reliability, Maintenance, and System Safety through Mathematical Modeling (ed. by M. Ram and A. Kumar), Elsevier, pp. 1-17.
2. **Tsarouhas, P.H.** (2018), “Statistical Techniques of Reliability, Availability, and Maintainability (RAM) Analysis in Industrial Engineering”, Chapter in Diagnostic Techniques in Industrial Engineering (ed. by M. Ram and J.P. Davim), Springer International Publishing AG, pp. 207-232.
3. **Tsarouhas, P.H.** (2014), “Application of statistical approaches for analyzing the reliability and maintainability of food production lines: a case study of mozzarella cheese”, Chapter in Mathematical and Statistical Methods in Food Science and Technology (ed. by D. Granato and G. Ares), John Wiley & Sons, Inc., pp. 491-510.
4. Arvanitoyannis, I.S. & **Tsarouhas, P.H.** (2010), “Food packaging materials for irradiation”, Chapter in Irradiation of Food Commodities (ed. by I.S. Arvanitoyannis), Elsevier, Burlington, MA, pp.43-64.

Articles Published in Scientific Journals

1. **Tsarouhas P.** (2023), “New Trends in Production and Operations Management”, *Applied Sciences*, Vol. 13, No 16, 9071, <https://doi.org/10.3390/app13169071>.
2. **Tsarouhas P.**, and Sidropoulou, T. (2023), “Application of Six Sigma methodology using DMAIC approach for a packaging olives production system: a case study”, *International Journal of Lean Six Sigma*, Vol. , No , pp.. DOI: 10.1108/IJLSS-06-2022-0140.
3. **Tsarouhas P.**, and Varzakas, T. (2022), “An analytical approach of feta-cheese production line based on overall equipment effectiveness”, *International Journal of Productivity and Quality Management*, Vol. 36, No 4, pp. 459-477. DOI: 10.1504/IJQM.2021.10038559.
4. **Tsarouhas P.** (2022), “Maintenance scheduling of a cheddar cheese manufacturing plant based on RAM analysis,” *International Journal of Productivity and Performance Management*, Vol.71, No 2, pp. 666-690.

5. Besseris G. and **Tsarouhas P.** (2022), “A new rapid and robust multi-factorial screening for low-percentile use-rate accelerated reliability analysis”, *International Journal of Quality & Reliability Management*, Vol. 39, No 1, pp. 316-344.
6. Makrygianni M., and **Tsarouhas P.** (2021), “A Conceptual Approach for Aircraft Readiness Management through Aircraft Downtime Optimization”, *International Journal of Aviation Management*, Vol. 5, No. 1, pp 50–73.
7. **Tsarouhas, P.**, Papachristos, I., (2021), “Environmental Assessment of ouzo production in Greece: a Life Cycle Assessment approach”, *Cleaner Environmental Systems*, Vol. 3, 100044. <https://doi.org/10.1016/j.cesys.2021.100044>.
8. **Tsarouhas P.**, and Varzakas, T. (2021), “An analytical approach of feta-cheese production line based on overall equipment effectiveness”, *International Journal of Productivity and Quality Management*, Vol. ..., No ..., pp. DOI: 10.1504/IJPM.2021.10038559.
9. Skiada, V., Agriopoulou, S. **Tsarouhas, P.**, Katsaris, P. Stamatelopoulou, E., Varzakas, T. (2020), “_Evaluation and origin discrimination of two monocultivar extra virgin olive oils, cultivated in the coastline part of north-western Greece”, *Applied Sciences*, Vol. 10 No. 6733, pp 1-11.
10. **Tsarouhas, P.** (2020), “Reliability, availability and maintainability analysis of a bag production industry based on the six sigma DMAIC approach”, *International Journal of Lean Six Sigma*, Vol. 12 No. 2, pp. 237-263.
11. **Tsarouhas P.** (2020), “Reliability, availability and maintainability (RAM) study of an ice cream industry,” *Applied Sciences*, Vol. 10 No. 4265, pp 1-20.
12. Antoniadou M., **Tsarouhas P.**, Varzakas T. (2020). Life Cycle Assessment and circular economy in conjunction with treatment methodologies: presentation and critical comparison between different food industry waste. *GSC Advanced Research and Reviews*, Vol. 3 No 3, pp. 29-50.
13. Skiada, V., **Tsarouhas, P.**, and Varzakas, T. (2020), “Comparison and discrimination of two major monocultivar extra virgin olive oils in the southern region of Peloponnese, according to specific compositional/traceability markers”, *Foods — Open Access Journal (MDPI)*, Vol. 9 No 155, pp. 1-11.
14. **Tsarouhas P.** (2020), “Overall equipment effectiveness (OEE) evaluation for an automated ice cream production line: a case study,” *International Journal of Productivity and Performance Management*, Vol. 69 No 5, pp. 1009-1032.
15. Skiada, V., **Tsarouhas, P.**, and Varzakas, T. (2019), “Preliminary Study and Observation of “Kalamata PDO” Extra Virgin Olive Oil, in the Messinia Region, Southwest of Peloponnese (Greece)”, *Foods — Open Access Journal (MDPI)*, Vol. 8 No 610, pp. 1-14.
16. **Tsarouhas P.** (2019), “Improving operation of the croissant production line through overall equipment effectiveness (OEE): a case study”, *International Journal of Productivity and Performance Management*, Vol. 68 No1, pp. 88-108.
17. **Tsarouhas P.** (2019), “Statistical Analysis of failure data for estimating reliability, availability and maintainability of an automated croissant production line” *Journal of Quality in Maintenance Engineering*, Vol. 25 No. 3, pp. 452-475.
18. **Tsarouhas P.** (2019), “Evaluation of reliability, availability and maintainability of a milk production line” *International Journal of Industrial and Systems Engineering*, Vol. 31 No3, pp. 324-342.
19. **Tsarouhas P.** (2018), “Reliability, availability and maintainability (RAM) analysis for wine packaging production line”, *International Journal of Quality & Reliability Management*, Vol. 35 No 3, pp.821-842.
20. **Tsarouhas P.** (2018), “Reliability, Availability and Maintainability-RAM analysis of Cake production lines: a Case Study”, *International Journal of Data Analysis Techniques and Strategies*, Vol. 10, No 4, pp. 381-405.
21. **Tsarouhas P.**, Makrygianni M., and Besseris G. (2018), “Combat readiness evaluation of a fighter-jet using reliability and cluster analysis”, *International Journal of Industrial and Systems Engineering*, Vol. 30, No 1, pp. 78-102.
22. **Tsarouhas P.** and Makrygianni M. (2017). A framework for maintenance and combat readiness management of a jet fighter aircraft, *International Journal of Systems Assurance Engineering and Management*, Vol. 8, No. 2, pp. 1895-1909.

23. **Tsarouhas P.** and Besseris G. (2017). Maintainability analysis in shaving blades industry: a case study, *International Journal of Quality & Reliability Management*, Vol. 34, No 4, pp. 581-594.
24. **Tsarouhas, P. H.** and Fourlas, G. (2016). Mission reliability estimation of mobile robot system. *International Journal of Systems Assurance Engineering and Management*, Vol. 7, No 2, pp. 220-228.
25. **Tsarouhas, P. H.** (2015). A practical approach for reliability and maintainability analysis of repairable systems: a case study of polypropylene production for food packaging applications,” *International Journal of Reliability and Safety*, Vol. 9, No 4, pp. 255-271.
26. **Tsarouhas, P. H.** and Fourlas, G. (2015). Reliability and Maintainability Analysis of a Robotic System for Industrial Applications: A Case Study. *International Journal of Performability Engineering*, Vol. 11 (5), pp. 453-462.
27. **Tsarouhas, P. H.,** Achillas, Ch., Aidonis, D., Folinias, D., Maslis V. (2015), “Life Cycle Assessment of olive oil production in Greece”, *Journal of Cleaner Production*, Vol. 93, pp. 75-78.
28. **Tsarouhas P. H.** (2015), “Performance evaluation of the croissant production line with reparable machines: a case study”, *Journal of Industrial Engineering International*, Vol.11, pp. 101-110.
29. **Tsarouhas P. H.** (2015), "Maintainability analysis in the yogurt industry", *International Journal of Systems Assurance Engineering and Management*, Vol. 6, issue 2, pp. 119-128.
30. **Tsarouhas, P. H.,** Arvanitoyannis I. S. (2014), “Yogurt production line: Reliability analysis”, *Production & Manufacturing Research*, Vol. 2(1), pp. 11-23.
31. **Tsarouhas P. H.** (2015), “Evaluation of maintenance management through the overall equipment effectiveness of a yogurt production line in a medium-sized Italian company”, *International Journal of Productivity and Quality Management*, Vol. 16 (3), pp 298-311.
32. **Tsarouhas P. H.** (2013), “Equipment performance evaluation in a production plant of traditional Italian cheese”, *International Journal of Production Research*, Vol. 51 (19), pp.5897-5907.
33. **Tsarouhas P. H.** (2013), “Reliability analysis into hospital dialysis system: a case study”, *Quality and Reliability Engineering International*, Vol. 29 (8), pp 1235-1243.
34. **Tsarouhas P. H.** (2013), “Evaluation of overall equipment effectiveness in the beverage industry: a case study”, *International Journal of Production Research*, Vol. 51(2), pp. 515-523.
35. **Tsarouhas P. H.** (2012), “Reliability, Availability, and Maintainability (RAM) analysis in food production lines: a review”, *International Journal of Food Science & Technology*, Vol. 47(11), pp. 2243-2251.
36. **Tsarouhas, P. H.,** Arvanitoyannis, I. S. (2012), “Reliability and maintainability analysis to improve the operation of the limoncello production line”, *International Journal of Food Science & Technology*, Vol. 47(8), pp. 1669-1675.
37. **Tsarouhas, P. H.,** Arvanitoyannis, I. S. (2011), “Quantitative analysis for peach production line management”, *Journal of Food Engineering*, Vol. 105(1), pp. 28-35.
38. **Tsarouhas, P.** (2011), “A comparative study of performance evaluation based on field failure data for food production lines”, *Journal of Quality in Maintenance Engineering*, Vol. 17(1), pp. 26-39.
39. **Tsarouhas, P.,** Arvanitoyannis, I. (2010), “Reliability and Maintainability analysis of bread production line”, *Critical Review in Food Science and Nutrition*, Vol. 50(4), pp. 327-343.
40. **Tsarouhas, P. H.,** Arvanitoyannis, I. S. (2010), “Assessment of operation management for beer packaging line based on field failure data: a case study”, *Journal of Food Engineering*, Vol. 98(1), pp. 51-59.
41. **Tsarouhas P.H.** (2010), “Measuring the efficiency of Medical Equipment”, *International Journal of Applied Science, Engineering and Technology*, Vol. 6(1), pp. 15-20.
42. **Tsarouhas, P.H.,** Arvanitoyannis, I. S., Ampatzis Z. D. (2009), “A case study of investigating Reliability and Maintainability in a Greek Juice bottling Medium Size Enterprise (MSE) ”, *Journal of Food Engineering*, Vol. 95, pp. 479-488.

43. Arvanitoyannis, I., Stratakos, A. and **Tsarouhas P.** (2009), "Irradiation Applications in vegetables and fruits: A review", *Critical Review in Food Science and Nutrition*, Vol. 49, pp. 427-462.
44. **Tsarouhas, P.**, Arvanitoyannis, I., Varzakas T. (2009), "Reliability and Maintainability analysis of cheese (Feta) production line in a Greek medium-size company: A case study", *Journal of Food Engineering*, Vol. 94, pp. 233-240.
45. **Tsarouhas, P.**, Varzakas, T., Arvanitoyannis I., (2009), "Reliability and Maintainability Analysis of Strudel Production line with experimental data; A case study", *Journal of Food Engineering*, Vol. 91, pp. 250-259.
46. **Tsarouhas, P.** (2009), "Classification and Calculation of Primary Failure Modes in Bread Production Line", *Reliability Engineering & System Safety*, Vol. 24, pp. 551-557.
47. **Tsarouhas, P.** (2007), "Implementation of Total Productive Maintenance in Food Industry: a case study", *Journal of Quality in Maintenance Engineering*, Vol. 13, No.1, pp. 5-18.
48. Liberopoulos, G., Kozanidis, G., **Tsarouhas, P.** (2007), "Performance Evaluation of an Automatic Transfer Line with WIP Scrapping during Long Failures", *Manufacturing & Service Operations Management*, Vol. 9, No. 1, pp. 62-83.
49. Avlonitis, S., Pappas, M., Moutesidis, K., Pavlou, M., **Tsarouhas, P.**, Vlachakis, V., (2007), "Water Resources Management by a Flexible Wireless Broadband Network", *Desalination*, Vol. 206, pp. 286-294.
50. **Tsarouhas, P.**, Nazlis, D. (2006), "Industrial Systems Maintenance under the Light of Reliability", *Information Technology Journal*, Vol. 5, No. 1, pp. 13-17.
51. **Tsarouhas, P.** (2005), "Analysing Event Data from a Repairable Automated Systems: A Case Study", *Information Technology Journal*, Vol. 4, No. 3, pp. 228-232.
52. **Tsarouhas, P.** (2005), "Reliability and Maintenance Management for Industrial Systems", *Asian Journal of Information Technology*, Vol. 4, No. 5, pp. 498-501.
53. Liberopoulos, G. and **Tsarouhas, P.**, (2005), "Reliability Analysis of an Automated Pizza Processing Line", *Journal of Food Engineering*, Vol. 69, No. 1, pp. 79-96.
54. **Tsarouhas, P.**, and Liberopoulos, G., (2004), "Determining Quality Inspection Frequency in an Automated Production Line Based on Field Failure Data Analysis", *Operational Research - An International Journal*, Vol. 4, No. 3, pp. 305-315.
55. Liberopoulos, G., and **Tsarouhas, P.**, (2002), "Systems Analysis Speeds Up Chipita's Food Processing Line", *INTERFACES, International Journal of the Institute for Operations Research and the Management Sciences*, Vol. 32, No. 3, pp. 62-76.

Articles Published in International Conference Proceedings

1. **Tsarouhas P.**, and Papachristos I., (2021), "Environmental impact of tsipouro production by life cycle assessment", 2nd International Conference on Environmental Design, ICED2021, 23-24 October.
2. Agriopoulou, S., Skiada, V., Stamatelopoulou, E., **Tsarouhas, P.**, Varzakas, V. (2020), "Emerging nanomaterials applications for food packaging and preservation. Safety issues and risk assessment", *1st International Electronic Conference on Food Science and Functional Foods*, Section: Food Packaging and New Packaging Materials. 10–25 November. Available online: https://foods_2020.sciforum.net/, doi:10.3390/foods_2020-07747.
3. Agriopoulou, S., Skiada, V., Stamatelopoulou, E., **Tsarouhas, P.**, Varzakas, V. (2020), "Investigation and comparison of the two dominant mono-cultivar extra virgin olive oils cultivated in the southern region of Peloponnese, according their sterolic and fatty acid profile", *1st International Electronic Conference on Food Science and Functional Foods*, Section: Food Packaging and New Packaging Materials. 10–25 November. Available online: https://foods_2020.sciforum.net/, doi:10.3390/foods_2020-07602.
4. Skiada, V., Agriopoulou, S., **Tsarouhas, P.**, Manousopoulos, Y., Katsaris, P., Stamatelopoulou, E., Varzakas, V. (2020), "Fatty acid and sterolic profile as authenticity tools for origin discrimination of monocultivar extra virgin olive oils, cultivated in the coastline part of Western Greece", *1st International Electronic Conference on Food Science and Functional Foods*, Section:

- Food Packaging and New Packaging Materials. 10-25 November. Available on line: https://foods_2020.sciforum.net/, doi:10.3390/foods_2020-07616.
5. Bakalopoulos, K., & **Tsarouhas, P.** (2018), "Evaluation of service satisfaction in the microbiology laboratory of the public hospital, according to the principles of Total Quality Management (TQM): Case study", *4nd International Conference on Supply Chain*, Katerini, Greece, 14 & 15 September.
 6. Gkourlias, T., & **Tsarouhas, P.** (2018), "Analysis and evaluation of the related to incorrect maintenance Aviation Accidents and Incidents", *3rd International Cross-industry Safety Conference*, 1-2 November, Amsterdam.
 7. **Tsarouhas, P.** & Furlas, G. (2015), "Maintainability analysis of the mobile robot", *16th IEEE International Symposium on Computational Intelligence and Informatics*, 19–21 November, Budapest, Hungary, pp. 47-52.
 8. **Tsarouhas, P.** & Makropoulou, M. (2015), "Life cycle analysis of pomegranate juice production based on ISO 14040", *3rd International Conference on Supply Chain*, Athens, Greece, 7&8 November.
 9. **Tsarouhas, P.** & Sapounas, A. (2015), "Performance analysis and quality in a tomato production line: Case study", *3rd Olympus International Conference on Supply Chain*, Athens, Greece, 7&8 November.
 10. **Tsarouhas, P.** & Keramidaris, D. (2015), "Survival analysis and performance evaluation of a paper bags production line", *3rd International Conference on Supply Chain*, Athens, Greece, 7&8 November.
 11. **Tsarouhas, P.** & Vergidis, Ch. (2014), "Application Standard ISO 22000:2005 in a Bread Manufacturing", *The 11th Student Conference on Management Science and Technology*, Athens, Greece, May 13.
 12. **Tsarouhas, P.** & Furlas, G. (2014), "Reliability analysis of the mobile robot: a case study", *2014 International Conference on Mechanical Engineering (ME '14)*, Venice, Italy, March 15-17, Vol. 1, pp. 151-155.
 13. **Tsarouhas, P.** & Xatzikraniotis D. (2012), "Application of ISO 22000:2005 and comparison with HACCP on a company manufacturing and packaging of frozen cooked bean", *2nd International Conference on Supply Chain*, Katerini, Greece, 5&6 October.
 14. **Tsarouhas, P.** & Avramidou, A. (2012), "Estimation of the overall equipment effectiveness and the operation management for plastic window frames", *2nd International Conference on Supply Chain*, Katerini, Greece, 5&6 October.
 15. **Tsarouhas, P.**, Trokanas, A & Eukarpidou, M. (2012), "Total quality management systems with the use of quality tools in a Greek 3PL company", *2nd International Conference on Supply Chain*, Katerini, Greece, 5&6 October.
 16. **Tsarouhas, P.**, Lemonia, M (2011), "Estimation of performance measurement and operation in a low voltage insulate conductors production line", *7th Maintenance Forum*, Athens Greece, 13-15 October.
 17. **Tsarouhas, P.**, Arampatzaki, D. (2010), "Application of Failure Modes and Effects Analysis (FMEA) of a Ceramic Tiles Manufacturing Plant", *1st International Conference on Supply Chain*, Katerini, Greece, 1&2 October.
 18. Manola, V. and **Tsarouhas, P.** (2010), "Application of Total Quality Management (TQM) in Educational Organisms. A Case Study: Secretariat of Logistics' Department", *1st International Conference on Supply Chain*, Katerini, Greece, 1&2 October.
 19. **Tsarouhas, P.**, Kokkinogoulis, Ch. (2010), "Reliability Analysis and Performance Evaluation of Polypropylene Production Line", *1st International Conference on Supply Chain*, Katerini, Greece, 1&2 October.
 20. **Tsarouhas, P.**, Lemonia, M. (2010), "Measurement of the Overall Equipment Effectiveness (OEE) and estimation of operation management for isolate conductor production line", *1st International Conference on Supply Chain*, Katerini, Greece, 1&2 October.
 21. **Tsarouhas, P.**, Voudouroglou, G. (2010), "Practical Methods of Reliability and Availability Analysis of Reparable Production Systems", *1st International Conference on Supply Chain*, Katerini, Greece, 1&2 October.

22. **Tsarouhas, P.** (2006), "Reliability of Complex Systems", *18th Conference on Operations Research - Planning, Information Retrieval and Knowledge Management*, Kozani, Greece, 15-17 June, Vol. II, pp. 971-981.
23. Liberopoulos, G., Kozanidis, G. and **Tsarouhas, P.** (2005), "Analysis of a Bufferless, Paced, Automatic Transfer Line with Massive Scrapping of Material during Long Failures", *5th International Conference on 'Analysis of Manufacturing Systems - Production Management'*, Zakynthos Island, Crece, May 20-25, Vol. 1, pp. 119-126.
24. **Tsarouhas, P.**, Liberopoulos, G. (2005), "Reliability, Quality & Maintenance of Automatically Production Systems", *4th International Congress on Food Technology, entitled: Accessing Useful Technologies...Optimizing Food Safety and Nutrition*, Piraeus, Greece, February 18-19, Vol. 1, pp. 359-371.
25. **Tsarouhas, P.**, Liberopoulos, G. (2003), "Reliability data analysis and quality control in an Automated Production Line Based on Field Failure Data Analysis", *16th Conference of the Greek Society for Operations Research on Project Management*, Larissa, Greece, September 25-27, Vol. B', pp. 205-214.

Editor in Special Issues

1. **Tsarouhas, P.** (Editor), Special Issue: "New Trends in Production and Operations Management", *Applied Sciences*, 2023, https://www.mdpi.com/journal/applsci/special_issues/Production_Operations
2. Varzakas T. and **Tsarouhas, P.** (Editors), Special Issue title: "Advances in food processing" (food preservation, food safety, quality and manufacturing processes). *Applied Sciences*, 2021, https://www.mdpi.com/journal/applsci/special_issues/Preservation_Safety_Quality

Funded R&D Projects

1. **OEE evaluation for an automated ice cream line: data collection and analysis.** Research program from the Technological Education Institute of Central Macedonia Greece, Research Committee under grant SMF/LG/101018-220/09, 2018-2019. *Principal Investigator.*
2. **Statistical analysis of failure data for estimating reliability, availability and maintainability of an automated croissant production line.** Research program from the Technological Education Institute of Central Macedonia Greece, Research Committee under grant SMF/LG/151117-200/08, 2017-2018. *Principal Investigator.*
3. **Improving operation of the croissant production line through overall equipment effectiveness (OEE): a case study.** Research program from the Technological Education Institute of Central Macedonia Greece, Research Committee under grant SMF/LG/140318-73/07, 2018-2019. *Principal Investigator.*
4. **Reliability, availability and maintainability (RAM) analysis for wine packaging production line.** Research program from the Technological Education Institute of Central Macedonia Greece, Research Committee under grant SMF/LOG/080217-15/06, 2017-2018. *Principal Investigator.*
5. **Evaluation of reliability, availability and maintainability of a milk production line.** Research program from the Technological Education Institute of Central Macedonia Greece, Research Committee under grant SMF/LOG/161116-248/05, 2016-2017. *Principal Investigator.*
6. **Reliability, Availability and Maintainability-RAM analysis of Cake production lines: a Case Study.** Research program from the Technological Education Institute of Central Macedonia Greece, Research Committee under grant SMF/DL/220916-195/04, 2016-2017. *Principal Investigator.*
7. **Combat readiness evaluation of a fighter-jet using reliability and cluster analysis.** Research program from the Technological Education Institute of Central Macedonia Greece, Research Committee under grant SMF/LOG/030915-156/03, 2015-2016. *Principal Investigator.*
8. **Maintainability analysis in shaving blades industry: a case study.** Research program from the Technological Education Institute of Central Macedonia Greece, Research Committee under grant SMF/DL/070716-170/02, 2016-2017. *Principal Investigator.*
9. **A framework for maintenance and combat readiness management of a jet fighter aircraft.** Research program from the Technological Education Institute of Central Macedonia Greece, Research Committee under grant SMF/DL/200116-1/01, 2015-2016. *Principal Investigator.*

10. **Fault Diagnosis and accommodation of wheeled mobile Robots.** Research program «Archimedes III» funded by grants from the European Social Fund (ESF) and the Ministry of Education & Religious Affairs, Culture & Sports through the operational program «Education and Lifelong Learning». *Member of the Main Research Team.*
11. **Securing transit containers** (setracon), (code: 2.1.1.77205.364, mis etc 2264) Program: black sea basin joint operational programme. Duration: 12.07.2013-11.07.2015. *Member of the Main Research Team.*

Theses Student Advising

- Ph.D's advising: graduated 3 Ph.D students, currently advising 3 Ph.D students
- Master's advising: graduated 76 MS students, currently advising 3 MS students
- Diploma advising: graduated 123 Diploma students, currently advising 5 Diploma students