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FIELDS OF RESEARCH

Operations Management, 3D printing, Operations Research

EDUCATION

04/2015 - 11/2022

Doctor of Philosophy (PhD), Department of Business Administration, University of the Aegean

PhD thesis title: *From smart devices to smart manufacturing. Redesigning operations management through 3D printing technology (additive manufacturing)* (Grade Excellent)

10/2012 - 10/2014

Master in Business Administration (M.B.A.), Department of Business Administration, University of the Aegean (Grade 8.42/10.00)

SPECIALIZATION TRACK: Production and Operations Management

10/2004 - 10/2006

Master in Science (M.Sc.) "Tourism Planning, Management and Policy", Interdepartmental Postgraduate Program Studies, Departments of Business Administration, Environment, Social Anthropology and History, Geography of the University of the Aegean (Grade 7.23/10.00)

10/2000 - 10/2004

Bachelor in Business Administration, Department of Business Administration, University of the Aegean (Grade 6.91/10.00)

SPECIALIZATION TRACK: Accounting and Finance

FELLOWSHIPS – AWARDS

29/2/2016 to 28/02/2019

Scholarship for doctoral studies entitled "Redesigning operations management with the use of Information and Communications Technology" (original title of doctoral thesis), Scholarship Program "Hypatia" of the University of the Aegean

Duration of financing: 3 years

11/2014

2nd in a row of success in the year of graduation in the specialization track "Production and Operations Management" in the Master in Business Administration (M.B.A.) of the University of the Aegean.

PUBLICATIONS

Papers in Scientific Journals with Referees

Mavri, M., Fronimaki, E., Kadrefi, A. (2023). "Survey analysis for the adoption of 3D printing technology: consumers' perspective", *Journal of Science and Technology Policy*

Management, Vol. 14 No. 2, pp. 353-385, Available online: 28 December 2021, (ABS list=1), DOI: <https://doi.org/10.1108/JSTPM-02-2020-0023>.

Fronimaki, E., Mavri, M. (2021). "The hidden side of 3D printing: Economics of solid objects", *Actual Problems of Economics*, Vol. 1, No. 235, pp. 6-16 (ABS list=1), DOI: [10.32752/1993-6788-2021-1-235-6-16](https://doi.org/10.32752/1993-6788-2021-1-235-6-16).

Fronimaki, E., Mavri, M. (2016). "Exploring the profile of smartphone users and determining the factors affecting the SMart Intense Use (SMI) through the Technology Acceptance Model: A Greek case study", *Journal of Information Technology and Management (JITM)*, Vol. XXVII, No. 3, pp. 121-137 (ABS list=1), ISSN #1042-1319.

Papers in Proceedings of Conferences with Referees

Kyriakaki, A., Fronimaki, E. (2024). "Social sustainability and disabled tourism. The contribution of new technology to the accessibility of the cultural tourism ecosystem", *1st Intocus International Conference, Theme "Tourism and Cultural Heritage: Resilience, Sustainability and Transformation"*, 8-9 March 2024, Athens, Greece.

Chatzi-Rodopoulou, T., Fronimaki, E., Ikouta Mazza, P., Kadrefi A., Mavri, M., Papandreou, D. (2024), "3D Printing: A cultural accelerator for education", *1st Intocus International Conference, Theme "Tourism and Cultural Heritage: Resilience, Sustainability and Transformation"*, 8-9 March 2024, Athens, Greece.

Fronimaki, E., Mavri, M. (2023). "Two phase linear programming problem of 3D printing production", *30th European Operations Management Association (EurOMA) Conference*, 3-5 July 2023, Leuven, Belgium.

Mavri, M., Fronimaki, E., Ikouta Mazza, P., Papandreou, D., Koltsaki, M. (2023). "Exploring the potential of 3D printing at mathematical literacy", *16th International Conference on Technology in Mathematics Teaching (ICTMT)*, 7-10 June 2023, Athens, Greece.

Chatzi-Rodopoulou, D., Fronimaki, E., Kadrefi A., Koltsaki, M., Mavri, M. (2023). "Exploring the potential of 3D printing to become an innovative production model, promoting sustainable development. A review of the key factors affecting its environmental impact", *15th International Conference Economies of the Balkan and Eastern European Countries EBEEC 2023*, 12-14 May 2023, Chios, Greece.

Mavri, M., Fronimaki, E. (2020). "Is mass production feasible by using 3D printing? The use of 3D printing in the fight of Corona Virus wave is an indicative case study", *XIV Balkan Conference on Operational Research*, 30 September-3 October 2020, Thessaloniki, Greece, pp. 397-401, ISBN: 978-618-85079-0-6.

Fronimaki, E., Mavri, M. (2018). "A linear cost model for 3D printing networks", *XIII Balkan Conference on Operational Research*, 25-28 May 2018, Belgrade, Serbia, pp. 211-218, ISBN: 978-86-80593-64-7.

Abstracts at International Conferences with referees (Book of Abstracts)

Fronimaki, E., Mavri, M., Kadrefi, A. (2023). "Could 3D Printing become a reliable production process aligned to the Goals of Sustainable Development?", *International Conference on Business & Economics of the Hellenic Open University 2023*, 29-30 September 2023, Athens, Greece.

Fronimaki, E., Kadrefi, A., Koltsaki, M., Mavri, M. (2022). "The use of 3D printing technology in mathematical educational procedures", *32nd European Conference on Operational Research*, 3-6 July 2022, Espoo, Finland.

Fronimaki, E., Mavri, M. (2022). "The social dimension of the production process through 3D printing technology", *2nd annual event "Days of Innovation and Research of the University of the Aegean - Dimitris Edouardos Gardikis"*, 1-2 June 2022, online (via Zoom).

Koltsaki, M., Fronimaki, E., Ikouta-Mazza, P. (2021). "The potential of 3D printing integration in educational system: a brief review of opportunities and challenges", *Multiplier Event 3D-ReMath - International conference "Overcoming mathematics learning difficulties using technology and ecology"*, 30 September 2021, Chios, Greece.

Fronimaki, E., Kadrefi, A., Koltsaki, M., Chatzi Rodopoulou, D., Mavri, M. (2021). "A survey analysis of the adoption of 3D printing technology", *Multiplier Event 3D-ReMath - International conference "Overcoming mathematics learning difficulties using technology and ecology"*, 30 September 2021, Chios, Greece.

Koltsaki, M., Fronimaki, E., Mavri, M. (2021). "How 3D printing technology can challenge the conventional business models?", *31st European Conference on Operational Research*, 11-14 July 2021, Athens, Greece.

Fronimaki, E., Mavri, M. (2021). "The future of the production process with the application of 3D printing technology", *1st annual event "Days of Innovation and Research of the University of the Aegean - Dimitris Edouardos Gardikis"*, 19-20 May 2021, online (via Zoom).

Fronimaki, E., Mavri, M. (2021). "The implementation of 3D printing in the production process", *International Conference on Business & Economics of the Hellenic Open University 2021*, 7-8 May 2021, Athens, Greece.

Mavri, M., Fronimaki, E. (2020). "How manufacturing industry incorporates 3D printing technology to COVID-19's applications?", *International Academic Webinar on 3D Printing and Additive manufacturing*, 26-27 November 2020, Webinar Conference.

Fronimaki, E., Mavri, M. (2020). "A cost elimination linear model for 3D Printing networks", *3D Printing & Additive Manufacturing, Theme: Future innovation in 3D Printing & Additive Manufacturing*, 29-30 July 2020, Webinar Conference.

Fronimaki, E., Mavri, M. (2020). "3D printing technology and Industry 4.0", *International Conference on Business & Economics of the Hellenic Open University 2020*, 26-27 June 2020, Athens, Greece.

Fronimaki, E., Mavri, M., Christodoulou, V. (2019). "The changes in the Value Chain of production due to 3D printing manufacturing technology", *30th European Conference on Operational Research*, 23-26 June 2019, Dublin, Ireland.

Kadrefi, A., Fronimaki, E., Mavri, M. (2019). "A survey analysis of consumers' behavior in terms of the adoption of 3D printing technology", *International Conference on Business & Economics of the Hellenic Open University 2019*, 22-23 February 2019, Athens, Greece.

Fronimaki, E., Mavri, M. (2018). "A cost elimination algorithm for 3D printing", *2nd EurOMA DANUBE Journal Publishing Workshop*, 13-14 September, Zagreb, Croatia.

Mavri, M., Fronimaki, E. (2018). "Is it cheaper to print a good or to manufacture it using traditional techniques? Cost always makes matter.", *29th European Conference on Operational Research*, 8-11 July 2018, Valencia, Spain.

Fronimaki, E., Mavri, M. (2018). "The economics of 3D printing: a linear cost model", *International Conference on Business & Economics of the Hellenic Open University 2018*, 11-12 May 2018, Athens, Greece.

Fronimaki, E., Mavri, M. (2017). "3D printing technology transforms the Value Chain of production", *International Conference on Business & Economics of the Hellenic Open University 2017*, 21-22 April 2017, Athens, Greece.

Mavri, M., Fronimaki, E., Zounta, S. (2016). "Defining the cost of producing an object by traditional and 3D manufacturing procedure", *28th European Conference on Operational Research*, 3-6 July 2016, Poznan, Poland (*invited paper*).

Fronimaki, E., Mavri, M., (2015). «Estimating customers' behavior to smartphones», *28th National Conference in Statistics*, pp. 84, April 15-18 2015, Athens, Greece.

REFERENCES

Citations available at Google Scholar

Fronimaki, E., Mavri, M. (2016). "Exploring the profile of smartphone users and determining the factors affecting the SMart Intense Use (SMI) through the Technology Acceptance Model: A Greek case study", *Journal of Information Technology and Management (JITM)*, Vol. XXVII, No. 3, pp. 121-137 (ABS list=1), ISSN #1042-1319.

[Number of Citations: 4]

- McDaniel, B.T., O'Connor, K., Drouin, M. (2021). "Work-related technoference at home and feelings of work spillover, overload, life satisfaction and job satisfaction", *International Journal of Workplace Health Management*, Vol. 14, No. 5, pp. 526-541, <https://doi.org/10.1108/IJWHM-11-2020-0197>.
- Sarkeshikian, A., Zakery, A., Shafia, M.A., Aliahmadi, A. (2021). "Stakeholders' consensus on organizational technology acceptance; using thematic analysis and SEM", *Kybernetes*, Vol. 50, No. 6, pp. 1873-1899, <https://doi.org/10.1108/K-03-2020-0180>.
- Yusuf, A., Tambuwal, N.I., Faruk, R.U., Gusau, H.A. (2020). "Predicting students' multiple intelligence from behavioral patterns of smartphone usage", DOI: [10.13140/RG.2.2.17465.70240](https://doi.org/10.13140/RG.2.2.17465.70240).
- Deucht, F. (2019). "Motivi korištenja i kriteriji odabira pametnih telefona", Doctoral dissertation, University of Zagreb, Faculty of Economics and Business, Department of Marketing.

Mavri, M., Fronimaki, E., Kadrefi, A. (2023). "Survey analysis for the adoption of 3D printing technology: consumers' perspective", *Journal of Science and Technology Policy Management*, Vol. 14 No. 2, pp. 353-385, Available online: 28 December 2021, (ABS list=1), DOI: <https://doi.org/10.1108/JSTPM-02-2020-0023>.

[Number of Citations: 2]

- Rayna, T., West, J. (2023). "Where digital meets physical innovation: Reverse salients and the unrealized dreams of 3D printing", *Journal of Product Innovation Management*, pp. 1-24, DOI: <https://doi.org/10.1111/jpim.12681>.
- Smykov, I.T. (2023). "Neophobia: socio-ethical problems of innovative technologies of the food industry", *Food systems*, Vol. 5, No. 4, pp. 308-318, <https://doi.org/10.21323/2618-9771-2022-5-4-308-318>.

WORKING PAPERS

Chatzi-Rodopoulou, D., Fronimaki, E., Kadrefi, A., Koltsaki, M., Mavri, M. "Exploring the potential of 3D printing production model to promote sustainable development".

RESEARCH ACTIVITY

Member of the Quantitative Methods Laboratory (QMLab), Department of Business Administration, University of the Aegean

RESEARCH ACTIVITIES

“Overcoming Disabilities and Enforce Social Inclusion via 3D printing” (2022-1-EL01-KA220-SCH-000087392 in the framework of the *Erasmus+ Call: 2022 - KA220-SCH - Cooperation partnerships in school education*)

Researcher

Contracting authority: European Commission, National Federation of Researcher
Contractor: University of the Aegean, Quantitative Methods Laboratory, Department of Business Administration
Project Budget: €250,000.00
Duration: December 2022 - December 2024

“3D Printing: a Cultural accelerator for Education” (2020-1-EL01-KA227-SCH-094618 in the framework of the *Erasmus+ Call: KA227 / Cooperation for Innovation and the Exchange of Good Practices - Partnerships for Creativity*)

Researcher

Contracting authority: European Commission, National Federation of Researcher
Contractor: University of the Aegean, Quantitative Methods Laboratory, Department of Business Administration
Project Budget: €237,464.00
Duration: March 2021 - August 2023

“3D printing technology aims students understanding maths and recycling procedure” (2019-1-EL01-KA201-062914 in the framework of the *Erasmus+ Call: 2019 - KA2 - Cooperation for Innovation and the Exchange of Good Practices - Strategic Partnerships for school education*)

Researcher

Contracting authority: European Commission, National Federation of Researcher
Contractor: University of the Aegean, Quantitative Methods Laboratory, Department of Business Administration
Project Budget: €195,780.00
Duration: September 2019 - February 2022

TEACHING EXPERIENCE

Academic year 2023-24, Winter Semester

University of the Aegean, Department of Business Administration

Adjunct lecturer, Teaching of the courses “Data Analysis” (compulsory core course, 3rd semester) and “Business processes and 3D printing architecture” (specialization course, 5th semester)

Academic year 2023-24

Hellenic Open University, Faculty of Social Sciences, Undergraduate Study Program [DEO] Business Administration

Collaborating Faculty Member (S.E.P.), Teaching of the course [DEO11] Introduction to Business Administration (compulsory course, 1st year)

Academic years 2022-23 and 2023-24, Spring Semester

University of the Aegean, Department of Business Administration, Master in Business Administration - Executive M.B.A.

Teaching of the course “Operations Management - Industry 4.0” (compulsory specialization course, spring semester)

LECTURES

University of the Aegean, Department of Financial and Management Engineering, MSc in Financial and Management Engineering

Invited speaker on “The transportation problem within 3D printing technology” in the context of the course “Operations Research”, December 21, 2023.

University of the Aegean, Department of Business Administration, Master in Business Administration (M.B.A.)

Invited speaker on “Algorithms of Management Science in the field of production and 3D printing technology applications” in the context of the course “Management Science”, April 26, 2023.

University of the Aegean, Department of Financial and Management Engineering, MSc in Financial and Management Engineering

Invited speaker on “Cost minimization model for additive manufacturing networks” in the context of the course “Operations Research”, December 15, 2022.

TEACHING TRAINING PROGRAMS

Academic year 2022-23

University of the Aegean - Centre of Training and Lifelong Learning

Training Seminars entitled “Let's print your imagination!!!”

Academic Program Manager and teaching the Tutorial “Introduction to 3D Printing”

Academic year 2022-23

University of the Aegean - Centre of Training and Lifelong Learning

Training Seminars entitled “3D Printing & 3D Scanning: Discovering the new data”

Teaching the Tutorials “Introduction to 3D Printing”, “Introduction to 3D Scanning”, “Introduction to Slicing Software” and “The Future of 3D Printing”

Academic years 2019-20 and 2020-21

University of the Aegean - Centre of Training and Lifelong Learning in collaboration with Easy Education - Lifelong Learning Center

Training Seminars entitled “Digital Transformation of Business Processes”

Creation of educational material in the Tutorials “Operations Management” and “3D printing”

Academic year 2019-20

University of the Aegean - Centre of Training and Lifelong Learning in collaboration with Easy Education - Lifelong Learning Center

Training Seminars entitled “Business Administration”

Creation of educational material in the Tutorial “Management Science”

SUPPLEMENTARY TEACHING

Academic years 2021-22 and 2022-23, Winter semester

University of the Aegean, Department of Business Administration

Laboratory exercises in the course “Operations Management - Industry 4.0” (specialization course, 5th semester)

Academic year 2018-19, Winter semester

University of the Aegean, Department of Business Administration, Master in Business Administration - Executive M.B.A.

Laboratory exercises in the course "Operations Research" (compulsory core course, 1st semester)

Academic years 2015-16 to 2017-18, Winter semester

University of the Aegean, Department of Business Administration

Laboratory exercises in the course "Special Topics in Quantitative Analysis" (specialization course, 5th semester)

Academic years 2015-16 and 2017-18, Spring Semester

University of the Aegean, Department of Business Administration

Laboratory exercises in the course "Operations Research" (compulsory core course, 6th semester)

Academic years 2014-15 and 2015-16, Spring Semester

University of the Aegean, Department of Business Administration, Master in Business Administration (M.B.A.)

Laboratory exercises in the course "Operations Research" (compulsory specialization course, 2nd semester)

Academic year 2014-15

University of the Aegean (contractor) - Special Management Service Operational Program Lifelong Course Education & Training (contracting authority)

Research Project "The University of the Aegean, a key factor for the economic and social development of the Aegean Region", Action 2 "Effective Organization & Management of Modern Businesses & Organizations"

Laboratory exercises in "Solving Linear Programming Problems with the SIMPLEX Method" (Teaching Unit "Management Science")

EDITORIAL ACTIVITY

Reviewer for the international scientific journals: "Journal of Science and Technology Policy Management", "American Journal of Engineering and Technology Management".

Editing team for the electronic journal edition of the Research Unit of the University of the Aegean entitled "Y.Δ.E.A." ("Implement-Create-Research-Develop").

PARTICIPATION IN CONFERENCE ORGANIZATIONAL COMMITTEES

- International Conference "Learning the European traditional monuments and promoting cultural heritage via digital tools", June 23, 2023.
- 15th International Conference on Economies of the Balkan and Eastern European Countries, EBEEC 2023, May 12-14, 2023.
- 2nd Student Research Competition of the University of the Aegean, June 3, 2022
- 2nd annual event "Days of Innovation and Research of the University of the Aegean - Dimitris Edouardos Gardikis", June 1-2, 2022.
- International Conference "Overcoming mathematics learning difficulties using technology and ecology", September 30, 2021.
- 1st Student Research Competition of the University of the Aegean, May 21, 2021
- 1st annual event "Days of Innovation and Research of the University of the Aegean - Dimitris Edouardos Gardikis", May 19-20, 2021

PROFESSIONAL ACTIVITY

01/2023 - present

Internship Office 2, University of the Aegean.

- Organizational and management processes of the Departments of Food Science and Nutrition, Financial and Management Engineering, Information and Communication Systems Engineering, Product and Systems Design Engineering, in the institutional project "University of the Aegean Internship for the academic year 2022-2023" (ESPA 2014 -2020, E.P. "Human Resource Development, Education & Lifelong Learning").

06/2022 - present

Department of Financial and Management Engineering, University of the Aegean

Financial management of the Department's Master in Science programs and Department's programs through national finance.

03/2020 to 12/2022

Research Ethics Committee, University of the Aegean.

- Support of the Committee, editing of minutes of meetings, processing requests of Scientific Coordinators

03/2019 to 10/2022

Internship Office 2, University of the Aegean.

- Organizational and management processes of the Departments of Financial and Management Engineering, Information and Communication Systems Engineering, Product and Systems Design Engineering, Food Science and Nutrition, in the institutional project "Tertiary Education Practice of the University of the Aegean" (ESPA 2014-2020, "Human Resources Development, Education & Lifelong Learning").

09/2014 to 02/2019

Secretariat of the Department of Financial and Management Engineering, University of the Aegean.

- Administrative and secretarial support for the Department's educational and research affairs (Academic Secretariat)
- Administrative support of the MSc in Financial and Management Engineering (administrative management, budget and financial planning, personnel management and all student affairs).

03/2010 to 08/2014

MSc in Financial and Management Engineering and Doctoral Studies Program, Department of Financial and Management Engineering, University of the Aegean.

- Administrative and financial management (accounting management, budget and financial planning, program monitoring and management, personnel management and all student affairs).

06/2005 to 10/2009

Organization and management of the company CHOROS 2 S.A., Organization of dining areas.

- Shareholder and member of the Board of Directors (human resource management, logistics, accounting).

FOREIGN LANGUAGES

ENGLISH: Excellent knowledge in reading, writing and speaking.

Certificate of Proficiency in English, University of Michigan (2004), Lower First Certificate in English, University of Cambridge (1997).

FRENCH: Basic knowledge in reading, writing and speaking.
Attending courses as an optional language in basic education.

SPECIAL KNOWLEDGE

MS Office, SPSS statistical package, Arena simulation software, Computational software
Mathematica, Lindo linear programming, XYZ printing software.

SEMINARS

27/05/2007 to 31/05/2007

Training program “Basic principles in food hygiene and safety”, Unified Food Control Agency
(EFET).