

PERSONAL INFORMATION

Name: Marius Pislaru

Nationality: Romanian

Email: marius.pislaru@academic.tuiasi.ro

EDUCATION

- 2010-2013 - **Postdoctoral studies:** "Postdoctoral Performance for Integration in the European Research Area" PERFORM-ERA (ID-57649), "Cristofor Simionescu" Faculty of Chemical Engineering and Environmental Protection "Gheorghe Asachi" Technical University of Iasi, Romania.
- 2003 – 2009 – **PhD in Electrical Engineering**, Doctoral School of the Faculty of Electrical Engineering Faculty of Electrical Engineering, "Gheorghe Asachi" Technical University of Iasi, Romania.
- 2006 – **Diploma – Virtual enterprise** "Don Calabria" Institute – Ferrara Italy.
- 2002 – 2003 – **Masters Degree: Information systems for environmental monitoring**, Faculty of Electrical Engineering, "Gheorghe Asachi" Technical University of Iasi, Romania/ Politecnico di Torino, Turin, Italy.
- 1997 – 2002 - **Bachelor of Science : Economic Engineering in Electrical, Electronic and Power Engineering**, Faculty of Electrical Engineering, "Gheorghe Asachi" Technical University of Iasi, Romania.
- 1992-1996 – **Baccalaureate**, "Stefan Procopiu" College, Vaslui, Romania.

ACADEMIC WORK EXPERIENCE

- October 2020 – present – **Vice-Dean** for *Research, Relationship with the Entrepreneurial Environment and Internationalization* of Faculty of Industrial Design and Business Management.
- October 2015 – present – **Associate Professor** in the Engineering and Management Department, Faculty of Industrial Design and Business Management "Gheorghe Asachi" Technical University of Iasi. Teaching undergraduate courses on *Operational Research, Management of Electrical Production, Industrial Management, Practice Firm* and graduate courses on *Advanced Production Systems, Quantitative techniques in operational management* and *Quantitative techniques for managerial decision making*. Administrative duties: board member of the Engineering and Management Department and board member of the Electrical Engineering, Energetics and Applied Informatics Faculty.
- October 2009 – September 2015 - **Lecturer** in the Engineering and Management Department, Faculty of Textiles, Leather and Industrial Management, "Gheorghe Asachi" Technical University of Iasi. Teaching undergraduate classes on *Operational Research, Industrial Management* and graduate courses on *Quantitative techniques in operational management* and *Quantitative techniques for managerial decision making*.
- October 2004 – September 2009 – **Assistant professor** in the Engineering and Management Department, Faculty of Textiles, Leather and Industrial Management, "Gheorghe Asachi" Technical University of Iasi. Teaching laboratories on *Operational Research, General Management, Management of Electrical Production*.
- October 2002 – September 2004 – **PhD Student** in Electrical Engineering, Faculty of Electrical Engineering, "Gheorghe Asachi" Technical University of Iasi, Romania. Teaching laboratories on *Operational Research*.

PARTICIPATIONS IN PROJECTS

As project manager:

- 2010 - 2012 – PD/CNCSIS RU_PD_627, *Development through neuro-fuzzy algorithms of solutions dedicated to environmental performance measurement systems in order to implement sustainable development strategies*, “Gheorghe Asachi” Technical University of Iasi.
- 2005-2007 - TD/CNCSIS 60/2005, *Contributions regarding neuro-fuzzy models for industrial quality assurance systems*, “Gheorghe Asachi” Technical University of Iasi.
- 2003-2005 - TD/CNCSIS 100/2003, *Contributions regarding neuro-fuzzy models for quality assurance systems*, “Gheorghe Asachi” Technical University of Iasi.
- 2003-2006 - BD/CNCSIS 8/2003, *Contributions regarding neuro-fuzzy models for quality assurance systems*, “Gheorghe Asachi” Technical University of Iasi.

Member in the implementation team:

International projects:

- 2011-2014 - NATO SfP983931/2011 *Sustainable management of toxic pollutants in Central Asia: towards a Regional Ecosystem Model for environmental security*, SUS-CAREM, Position held: researcher.
- 2007 CORINT / CNMP 132/2007 *Remote instrumentation in next-generation grids*. Position held: Researcher.
- 2006 Leonardo da Vinci RO/2004/PL93117/TD *Practice Team: A modern Teaching Method for Student’s Training*. Position held: Trainee.

National projects (selection) :

- 2020 - JAR2020_018 *Sustainable Entrepreneurship Summer School (SESS)- Entrepreneurial University Program* financed by Romanian-American Foundation - Junior Achievement international.
- 2020 – 2022 ERANET-MANUNET-III-MINaFBioS - *Molecularly imprinted nanofluidic biosensors for the detection of human derived proteins*, “Gheorghe Asachi” Technical University of Iasi, Researcher.
- 2018 - POCU/82/3/7/106188, SMARTER - *Supporting the Entrepreneurial Environment in Romania through Regional Economic Tactics*, “Gheorghe Asachi” Technical University of Iasi, Entrepreneurial skills development trainer.
- 2019-2021 COFUND-ERANET MANUNET III-4DPrintEN *4D printed flexible and stretchable energy harvesting devices based on innovative electrically tunable elastomer* INTELLECTRO Iasi S.R.L, Researcher.
- 2017-2019 –POINGBIO - Contract nr. 86/08.09.2016, ID P_40_443 *Partnerships for knowledge transfer in the field of polymer materials used in biomedical engineering*, INTELLECTRO Iasi S.R.L, Researcher.
- 2017 - 2018 – PN-III-P2-2.1-PED-2016-0689, *Digital Innovation Model for Business Ecosystems from Creative Industries* - CRE@TIVE.BIZ, “Gheorghe Asachi” Technical University of Iasi, Researcher.
- 2014 - 2016 - PN-II-PT-PCCA-2013-4-1811, *E-solutions for innovation through customer pro-active involvement in value creation to increase organizational competitiveness (E-PICUS)*, “Gheorghe Asachi” Technical University of Iasi, Researcher.
- 2013 – 2015 - POSDRU/160/2.1/S/138113 *The transition from school to active life through practice and the creation of virtual enterprises* – SIMPRACT, Coordinator CNIPMMR Bucharest, Long term expert.
- 2010 - 2013 - POSDRU/89/1.5/S/57649 *Postdoctoral Performance for Integration in the European Research Area* PERFORM-ERA (ID-57649), financed by the European Social Fund and the Romanian Government, “Gheorghe Asachi” Technical University of Iasi, Postdoc researcher.

- 2009 – 2011- ID-2386, PNCDI II/IDEI, *Development through neuro-fuzzy modelling of customized solutions for performance indicators systems supporting the sustainable competitiveness of the entrepreneurial industrial firm*, “Gheorghe Asachi” Technical University of Iasi, Researcher.
- 2007-2010 - PNCDI II 91047/14.10.2007– Partnerships in the priority areas *Comparative assessment techniques of the university qualification in Romania*, ASE Bucharest, Researcher.
- 2007 – 2010 - PC 3789, PNCDI II PN2 /CNMP nr. 91-069/2007 *Partnership for excellence research in developing entrepreneurial skills and competitive human capital in the economy and society based on knowledge and innovation*, “Gheorghe Asachi” Technical University of Iasi, Researcher.

PUBLICATIONS

Books (selection)

- **Pîslaru M.**, (2015) *Cercetare Operațională (Operational Research)*, Ed. Performantica Iasi, ISBN 97606-685-232-6, 351 pages.
- **Pîslaru M.**, (2015) *Managementul Producției Electrice (Management of Electrical Production)* Note de curs (Course notes) Ed. Performantica Iasi, ISBN 978-606-685-236-4, 186 pages.
- **Pîslaru M.**, (2015) *Cercetare Operațională - Îndrumar de laborator (Operational research - lab notes)*, Ed. Performantica, Iași, ISBN 978-606-685-234-0, 143 pages.
- **Pîslaru M.**, Schreiner C., Trandabăț A.F., (2010), *Cercetări privind utilizarea modelelor neuro-fuzzy în cadrul sistemelor de asigurare a calității (Research regarding neuro-fuzzy models used in quality assurance systems)* Ed. PIM, ISBN 978-606-520-676-2, 210 pages.

Book Chapters (selection)

- Alexa, L., **Pîslaru, M.**, Avasilcăi, S. (2022). From Industry 4.0 to Industry 5.0—An Overview of European Union Enterprises. In: Draghici, A., Ivascu, L. (eds) *Sustainability and Innovation in Manufacturing Enterprises. Advances in Sustainability Science and Technology*. Springer, Singapore. Print ISBN 978-981-16-73-64-1, ISSN 2662-6829
- Herghiligiu I., Vilcu A., **Pîslaru M.** (2020) *The Implementation of a New Technology Based on the Monte Carlo Simulation in the Field of Sustainable Dependability in Operation*. In: Prostean G., Lavios Villahoz J., Brancu L., Bakacsi G. (eds) *Innovation in Sustainable Management and Entrepreneurship*. Springer Proceedings in Business and Economics. Springer, Cham, Pages 333-344, Print ISBN 978-3-030-44710-6.
- **Pîslaru M.**, Avasilcăi S., Alexa L.E. (2019) *Fuzzy Modeling of Customized Solutions for Corporate Performance Assessment*. In: Bilgin M., Danis H., Demir E., Can U. (eds) *Eurasian Business Perspectives*. Eurasian Studies in Business and Economics, vol 10/1. Springer, Cham
- **Pîslaru M.**, Avasilcai S. (2013) *Neuro-Fuzzy Model Related to Job Assignment*. In: Sobh T., Elleithy K. (eds) *Emerging Trends in Computing, Informatics, Systems Sciences, and Engineering*. Lecture Notes in Electrical Engineering, vol 151. Springer, New York, NY.

Selected articles

- **Pîslaru M.**, Herghiligiu I. V., Robu I.-B., (2019) Corporate sustainable performance assessment based on fuzzy logic, *Journal of Cleaner Production*, Volume 223, 20 June 2019, Pages 998-1013, <https://doi.org/10.1016/j.jclepro.2019.03.130>, (IF= 7.246)
- Herghiligiu I.V., Robu I.-B., **Pîslaru M.**, Vilcu A., Asandului A.L , Avasilcăi S. and Catalin Balan (2019), Sustainable Environmental Management System Integration and Business Performance: A Balance Assessment Approach Using Fuzzy Logic, *Sustainability*, Volume 11, Issue 19, 5311; <https://doi.org/10.3390/su11195311> (IF=2.592)

- Tadesse M.G, Loghin E., **Pislaru M.**, Wang L., Chen Y., Nierstrasz, V., Loghin C., (2019) Prediction of the tactile comfort of fabrics from functional finishing parameters using fuzzy logic and artificial neural network models, *Textile Research Journal*, <https://doi.org/10.1177/0040517519829008>, IF=1,540
- **Pislaru M.**, Leon R.D., Vilcu A., (2018) *Using a fuzzy expert system for service quality improvement. The case of a car wash station*, STRATEGICA- International Academic Conference - sixth edition - Bucharest, October 11-12, ISBN 978-606-749-365-8/ Tritonic Publishing House, 490-500 pages.
- **Pislaru M.**, Alexa L., Avasilcai S., (2018), Assessment of Project Management Implementation Based On Fuzzy Logic Approach, *31st International-Business-Information-Management-Association Conference 2018*, VOLS I –XI, Edited by: Soliman, KS, Pages: 6079-6086.

Other professional and business activities and trainings such as workshops, seminars, conferences

- Participation in over 32 academic conferences around the world between 2003- 2019 (London, Stockholm, Paris, Bucharest, Hong Kong, Dubai, Athens) as presenter and/or session chair.
- July 2020 - Babson Academy - Certificate of completing - *Entrepreneurial Mindshift for Educators program - An Online Approach to Help Your Students Think and Act More Entrepreneurially*.
- October 2014 – “Entrepreneurial education, and simulation of business models and administration of SMEs” seminar at Summer School: “Application of sensors networks in food industry, agriculture and medicine” under the frame of FP7-PEOPLE-2011-ITN – lecturer.
- January - March 2006 – Training course „Practice Team: A Modern Teaching Method for Student’s Training”, - PRETEAM – „Don Calabria” Institute - Ferrara, Italia;

Professional honors, awards

- Awarding research results – articles (2020) PN-III-P1-1.1-PRECISI-50451, PN-III-P1-1.1-PRECISI--43808
- Awarding research results – articles (2019) PN-III-P1-1.1-PRECISI-38631, PN-III-P1-1.1-PRECISI-40355
- Diploma of Excellence –EUROINVENT (EUROPEAN EXHIBITION OF CREATIVITY AND INNOVATION)2018 - *Fractal design solutions for EMS integration in order to improve business*.
- Diploma of Excellence –EUROINVENT 2018- *Assessing sustainable development of the Romanian listed companies based on hierarchical fuzzy logic*.
- Diploma of Bronze Medal – EUROINVENT 2018- *Eco-intelligent system for environmental sustainability assessment based on soft-tehniques integrated framework INTEL –ECO*.
- Diploma of Silver Medal – EUROINVENT 2017 – European exhibition of creativity and innovation *Environmental fraud risk assessment based on fuzzy approach*

Scholarships and research fellowships

- January – March 2013 - Democritus University of Thrace – Faculty of Engineering - Department of Production Engineering and Management, Xanthi – Greece, Research topic: Sustainability assessment of companies in relation to the environment.
- September – November 2012 - Democritus University of Thrace – Faculty of Engineering- Department of Production Engineering and Management, Xanthi Greece, Research topic: Environmental performance of companies within Automotive Industry.
- September - November 2011 - University of Beira Interior, Covilha, Portugal, Research topic: Soft computing techniques for modeling scenarios with increased environmental risk.
- September 2010 - University Pierre et Marie Curie- Paris, Department of Earth, Environment and Biodiversity, Paris, France. Research topic: Conceptual framework to assess and analyze the relationships between the representative environmental indicators and their effect over the ecosystem
- September 2009 - University of Oxford, Department of Computer Science, Great Britain. Research topic: Fuzzy logic for business performance assessment.

- August – September 2007 - Oxford University, Computing Laboratory, Great Britain. Research topic: Neuro-fuzzy techniques for quality assurance.
- September – November 2006 - Postgraduate scholarship for internships abroad, awarded by the Ministry of Education and Research, Scholarship established by Government no. 697-1996, as amended by H.G. no. 533-1998 Technical University of Crete Chania - Greece. Research topic: Fuzzy algorithms for business performance assessment.
- July - September 2004 - Postgraduate Research Scholarship „Nicolae Titulescu” granted by the Government for the training of specialists for the purpose of integration in the European Union, Darmstadt Technical University, Laboratory of Electrical Engineering and Information Technology - Neural Networks and Fuzzy Systems Group, Germany.
- February – June 2003 Socrates-Erasmus Scholarship, Politecnico di Torino, Department of Electronics, Neuronica Laboratory, Master Thesis Research.

Organization of International Conferences & Conference Reviewer (selection)

- *Journal of Cleaner Production* – platform for encompassing environmental and sustainability issues in corporations, governments, education institutions, regions, and societies- IF =6.395 reviewer.
- *Journal of Environmental Health Science and Engineering* – presents timely research on all aspects of environmental health science, engineering and management - IF =2.773 reviewer.
- INDRSCIENCE Publishers – linking academia, business and industry through research- reviewer.
- *Information Processing & Management Journal* – publishes theory, methods, or applications in a range of domains, including but not limited to business, marketing, advertising, social computing, and information technology, IF =3.892 - reviewer.
- *World Academy of Science, Engineering and Technology* - science research organization dedicated to promoting the advancement of science, engineering and technology - reviewer.
- *Sustainability* – journal of environmental, cultural, economic, and social sustainability of human beings, IF =2.592 reviewer.
- *Applied Sciences* open access journal on all aspects of applied natural sciences- IF=2.474, reviewer.
- *Journal of Open Innovation: Technology, Market, and Complexity* open access journal on the open innovation, open business model, entrepreneurship, complexity, and evolutionary change in the economy - reviewer.

Membership and activities in professional associations

- 2019 – present – Senior Member of International Biology and Environment Research Institute;
- 2017 – present – Member of Eurasia Business and Economics Society;
- 2014 – present - Senior Member al Asia-Pacific Chemical, Biological & Environmental Engineering Society;
- 2014 – present – Senior Member al International Association of Computer Science and Information Technology;
- 2014 – present - Member of Review Boards of International Journal of Environmental Science and Development;
- 2012- present – Member of World Academy of Science, Engineering and Technology;
- 2006- present – Member of New Wave Science Mates '94.