

PERSONAL INFORMATION

Ioan MILOŞAN

✉ milosan@unitbv.ro

WORKPLACE
POSITION IOSUD UTBVTransilvania University of Braşov
Doctoral Advisor - Industrial Engineering
Doctoral Adviser since 2018FIELDS OF PROFESSIONAL
COMPETENCE/AREAS OF
INTEREST IN RESEARCHIndustrial Engineering, Materials Engineering/Unconventional technologies for material processing;
Industrial ecotechnologies; Optimization of occupational safety and health systems in the industrial
field; Optimization of industrial processes;

WORK EXPERIENCE

December 1989 - present

Professor (2001-present); **Associate Professor** (1999-2001); **Lecturer** (1993-1999); **Assistant Professor** (1989-1993)Transilvania University of Braşov, B-dul Eroilor, Nr. 29, Braşov, 500036, Romania,
www.unitbv.roLaboratory activities, tutorial classes, project and teaching, scientific research
Education, Research, Higher Education

Oct. 1986- Dec. 1989

Technologist EngineerProduction tracking and organization: implementation of technologies for the manufacture of
ball grinding wheels, as well as the implementation of technologies for the manufacture of
bushings (sintering in order to obtain the optimal parameters for bushings).Rulmentul Factory of Braşov, Head Metallurgist, Str. 13 Decembrie, Nr. 98, Braşov, Romania
Industrial production

Sept. 1983 - Oct. 1986

Technologist EngineerProduction tracking and organization: implementation of technologies for the manufacture
(moulding - casting) of the 1010 tractor parts (engine block, cylinder head, clutch, etc.),
coordination of the shift work.Întreprinderea Mecanică Codlea, Str. Rampei, Nr. 1, Codlea, Romania. From October 1983
posted to the Tractorul Factory of Braşov, the T32 Department, Str. Turnului, Nr. 5, Braşov,
Romania
Industrial production

EDUCATION AND TRAINING

March 2017 - March 2018

Habilitated in the Industrial Engineering field

The Transilvania University of Braşov

Habilitation Thesis: CONTRIBUTIONS ON THE USE OF SOLAR ENERGY TO
CHANGE THE PROPERTIES OF SPECIAL ALLOYS BY HEAT TREATMENTSHabilitation Attestation according to the Order of the Minister of National Education
3380/22.03.2018

Oct. - Dec. 2012

Trainer of TrainersGraduation Certificate Series H, No. 00124688/02.02.2013 - Postgraduate refresher
courseTraining activities, assessment of participants, training marketing, quality assurance
Certificate issued by: The Ministry of Labour, Family and Social Protection
and the Ministry of Education, Research, Youth and Sports/The Institute for
Training, Studies and Research - PIMMJM, Tg. Mureş

Classification of Occupations in Romania Code: 242402

Curriculum Vitae**Trainer of Trainers**

Graduation Certificate Series H, No. 00124688/02.02.2013 - Postgraduate refresher course
Training activities, assessment of participants, training marketing, quality assurance
Certificate issued by: The Ministry of Labour, Family and Social Protection and the Ministry of Education, Research, Youth and Sports/The Institute for Training, Studies and Research - PIMMJM, Tg. Mureş. Classification of Occupations in Romania Code: 242402

June - July 2010

Vocational Competences Assessor,

Vocational Competence Certificate, Series B, No. 005174/02.07.2010,
Planning and organizing assessments; Conducting assessments; Analysing information and making decisions on competence. Certificate issued by: The National Council for Adult Vocational Training (CNFPA). Vocational Training Standard: M 9,

July - August 2009

Project Manager

Graduation Certificate Series F, No. 0014977/14.08.2009, Postgraduate refresher course
Establishing the purpose of the project; Establishing the integrated project management requirements; Cost and resource management; Risk management; Project team management; Communication management; Project quality management.
Certificate issued by: The Ministry of Labour, Social Solidarity and Family and the Ministry of Education, Research and Youth/PROCOMUNITA Sibiu, Classification of Occupations in Romania Code: 241919

Oct. - Nov. 2006

Quality Auditor

Graduation Certificate Series A, No. 0072970/29.11.2006 Postgraduate refresher course
Actions specific to the audit process; The family of ISO 9001 and ISO 19011 standards; Tasks and duties in the audit team; Preparation of audit-specific documents; Planning of audit work; Conducting the audit; Preparation of the audit report.
Certificate issued by: The Ministry of Labour, Social Solidarity and Family and the Ministry of Education, Research and Youth/PROCOMUNITA Sibiu, Classification of Occupations in Romania Code: 242303

June - July 2006

Environmental Auditor

Graduation Certificate Series A, No. 0072521/11.08.2006 Postgraduate refresher course
Actions specific to the audit process; The family of ISO 9001 and ISO 19011 standards; Tasks and duties in the audit team; Preparation of audit-specific documents; Planning of audit work; Conducting the audit; Preparation of the audit report.
Certificate issued by: The Ministry of Labour, Social Solidarity and Family and the Ministry of Education, Research and Youth/PROCOMUNITA Sibiu, Classification of Occupations in Romania Code: 242305

June - July 2006

Manager of Quality Management Systems

Graduation Certificate Series A, No. 0072500/27.08.2006 Postgraduate refresher course
Staff assessment, training and motivating for quality; Supplier assessment; Quality policy development and implementation; Monitoring inspections and tests.
Certificate issued by: The Ministry of Labour, Social Solidarity and Family and the Ministry of Education, Research and Youth/PROCOMUNITA Sibiu, Classification of Occupations in Romania Code: 242302

June - July 2006

Manager of Environmental Management Systems

Graduation Certificate Series A, No. 0072508/11.08.2006 Postgraduate refresher course
Training the environmental department staff; Defining the organization's environmental policy, developing environmental management programs; Implementation of the Environmental Management System; Organizing the environmental protection department.
Certificate issued by: The Ministry of Labour, Social Solidarity and Family and the Ministry of Education, Research and Youth/PROCOMUNITA Sibiu, Classification of Occupations in Romania Code: 242304

June 1993 - June 1998

PhD degree in Materials Science; Series P no. 0000249/08.06.1998

Title of the thesis: *Studies and research on the production of bainite spheroidal-graphite cast irons by heat treatments.*

Degree issued by: The Ministry of Education/Organizer: Transilvania University of Braşov

ISCED 8

1978-1983

Engineer degree - Main field of study: Metallurgy, Specialisation: Foundry, Series A no. 2230/17 June 1983

Mathematical analysis; Physics; Mechanics; Special Mathematics; Material resistance; Electrotechnics and electrotechnical installations in metallurgy, Machine parts, mechanisms and machining; Thermo-technics; Computers and automation elements; Industrial drawing of cast parts; Specific metallurgical machinery; Preparation and casting of ferrous and non-ferrous alloys; Hot treatments and processing; Metallurgical assemblies and heat plants, Process optimization, Casting machining; etc.

Educational establishment: The University of Braşov, The Machine Manufacturing Technology Faculty
ISCED 7

PERSONAL SKILLS

Mother tongue(s) Romanian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken Production	
English	B1	B1	B1	B1	B1
Certificate of linguistic competence issued by the Transilvania University of Braşov, the CENTRE FOR MODERN LANGUAGE LEARNING, Certificate no. 272/14.03.2008					
French	C1	C1	C1	C1	B2
Spanish	A2	A2	A2	A2	A1

Organisational/managerial skills

Organizing activities for teaching and fundamental and applicative research of industrial processes. Over the years, I have coordinated the following activities within the Transilvania University:

- Vice-Dean, responsible for the teaching activity and quality at the Faculty of Materials Science and Engineering;
- Deputy Principal of the Technical University College of the Transilvania University of Braşov;
- Responsible for quality assurance within the Materials Science and Engineering Faculty;
- Responsible for the implementation of the management control system in the Materials Science Department;
- Manager of the Postgraduate studies “Environmental pollution, protection and management”.

Job-related skills

Scheduling and conducting experiments; Using research facilities and apparatus; Modelling and optimizing industrial processes

Digital skills

Skills: PC-MS Windows, Internet, Word, Excel, Power Point, Microcal Origin, Microsoft Projects

Other skills

- National assessor, The Ministry of National Education, the Agency for Credits and Scholarships;
- Consultant in the field: Quality Management, Environmental Management and Project Management;

ADDITIONAL INFORMATION

Publications
Presentations
Projects
Conferences
Seminars

More than 100 papers published in journals, specialist journals, proceedings, academic bulletins, volumes of national and international conferences;
8 books published by domestic publishing houses (4 as sole author, 4 as co-author);
4 course guides/reference books (3 as lead author, 1 as co-author);
22 ISI indexed articles with IF (14 as lead author);
11 articles in ISI Proceedings indexed volumes (7 as lead author);
21 BDI indexed papers (20 as lead author);
4- FP7 Grants INFRA-312 643 as Manager: France 2015; 2016; 2017; Spain: 2017.

Memberships

The Romanian Foundry Technical Association (ATTR), 1996 - Present <http://www.foundry-attr.ro/>
The Romanian Sanitation Association (ARS), 2006-present <http://www.salubritatea.ro/>
American Society of Metals (ASM) International - Romanian Branch, 2006-2008

Hirsch Indexes

ISI Knowledge (ISI Index), **h-index: 4**;
 Scopus (Scopus Index), **h-index: 1**
 Google Scholar (GS Index), **h-index: 4**.

ANNEXES
Publications relevant for the areas of expertise/interest in research - selection

1. **Milosan, I.**, Flamant, G., Voiculescu, I., Geantă, V., Munteanu, D., Bedo, T., Pop, M.A., Semenescu, A., Crisan, A., Cristea, D., Giacomelli, I., Stoicanescu, M., Gabor, C., Sarbu, F.A., Ghiuta, I. (2018): *Comparative study of heat treatment effects performed with solar energy and electric furnace on Co, W, Cu, and Mo alloyed EN 1.4848 steel*, Revista de Chimie, Vol. 69, Issue 5, p. 1050-1054, ISSN 0034-7752, F.I.: 1,412; Accession Number: WOS:000400731900008.
http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=D22sTrHz5EbNRlFHEzj&page=1&doc=3
2. **Milosan, I.** Cristea, D., Voiculescu, I., Pop, M.A., Balat-Pichelin, M., Predescu, A.M., Bogatu, C.A., Bedo, T., Berbecaru, A.C., Geantă, V., Gabor, C., Isac, L.A., Sarbu, F.A., Oancea, G., *Characterisation of EN 1.4136 stainless steel heat-treated in solar furnace*, International Journal of Advanced Manufacturing Technology, Vol. 101, Issue 9-12, pp. 2955-2962, **First Online:** 13 December 2018, DOI 10.1007/s00170-018-3153-9 (under indexing, F.I. Journal: 2,601, Quartile in category: Q2);
<https://link.springer.com/article/10.1007%2Fs00170-018-3153-9>
3. Geanta, V., Voiculescu, I., Stefanoiu, R., Jianu, A, **Milosan, I.**, Stanciu, EM, Pascu, A, Vasile, IM, (2019): *Titanium Influence on the Microstructure of FeCrAl Alloys Used for 4R Generation Nuclear Power Plants*, Revista de Chimie, vol. 70, Issue 2, pag. 549-554. F.I.: 1,412; Accession Number: WOS:000461982200038;
http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=D22sTrHz5EbNRlFHEzj&page=1&doc=2
4. Geanta, V., Voiculescu, I., **Milosan, I.**, Istrate, B., Mates, I.M. (2018): *Chemical Composition Influence On Microhardness, Microstructure And Phase Morphology Of AlxCrFeCoNi High Entropy Alloys*, Revista de Chimie, Vol. 69, Issue 4, p. 798-801, ISSN 0034-7752, F.I.: 1,412; Accession Number: WOS:000433223000009.
http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=D22sTrHz5EbNRlFHEzj&page=1&doc=4
5. Pop, M. A., Croitoru, C., Bedo, T., Geaman, V., Radomir, I., Cosnita, M., Zaharia, S. M., Chicos, L. A., **Milosan, I.** (2019): *Structural changes during 3D printing of bioderived and synthetic thermoplastic materials*, JOURNAL OF APPLIED POLYMER SCIENCE, vol. 136, issue 17, DOI: 10.1002/app.47382, Accession Number: WOS:000456861100001, F.I.: 1,901, Quartile in category: Q2);
http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=D22sTrHz5EbNRlFHEzj&page=1&doc=1
6. Pop, M.A., Geaman, V., Radomir, I., Bedo, T., **Milosan, I.**, Zaharia, S.M., Florea, B., Semenescu, A., Chivu, O.R. (2017): *The Degradation Effects to Hand Made Composite Materials by Using Acids*, Revista: Materiale Plastice, Volume: 54, Issue: 3, Pages: 433-437, 2017, ISSN: 0025-5289, Accession Number: WOS:000426412300006 (FI = 1,248).
http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=D22sTrHz5EbNRlFHEzj&page=1&doc=6
7. Pop, M.A., Geaman, V., Radomir, I., Bedo, T., **Milosan, I.**, Semenescu, A., Florea, B., Roxana, O., Chivu, O.R. (2017): *Effect of Different Solutions on the Handmade Composite Materials*, Revista de Chimie, Vol. 68, No.3, p. 464-469, 2017, ISSN 0034-7752, 2017, Accession Number: WOS:000400731900008 (FI = 1,412).
http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=D22sTrHz5EbNRlFHEzj&page=1&doc=7
8. **Milosan, I.** (2013): *Aspects about Phase Transformation in Solid State of a S.G. Cast Iron*, Metalurgia International, V. 18, Special Issue: 5, P. 95-98, ISSN: 1582-2214, Accession Number: WOS:000315611900018 (FI = 0,134).
http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=D22sTrHz5EbNRlFHEzj&page=1&doc=10
9. **Milosan, I.** (2012): *Study Regarding to the Recycling of Metallurgical Waste*, Metalurgia International, V. 17, Issue: 9, P. 71-75, ISSN: 1582-2214, **FI:0,084**, Accession Number: WOS:000306248100014.
http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=D22sTrHz5EbNRlFHEzj&page=2&doc=15
10. **Milosan, I.** (2010): *Clean Technology Applied To Reducing Losses By Recycling Materials From Metallurgical Industry*; Metalurgia International, V. 15; Issue: 2; P. 73-74; ISSN: 1582-2214, Published: 2010, FI=0,154, Accession Number: WOS:000274149100013,
http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=D22sTrHz5EbNRlFHEzj&page=3&doc=22
11. **Milosan, I.** (2010): *The Influence Of The Heat Treatment's Parameters Over The Real Surface Contact At The Bainitic Sgcast Iron' Wear*; Metalurgia International, V. 15; Issue: 8; P. 31-33; ISSN: 1582-2214, Published: 2010, FI:0,154, Accession Number: WOS:000277598900007,
http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=D22sTrHz5EbNRlFHEzj&page=3&doc=24
12. **Milosan, I.** (2010): *Theoretical Aspects Regarding Of Some Metallurgical's Processes Optimization*; Metalurgia International, V. 15; Issue: 8; P. 55-57; ISSN: 1582-2214, Published: FI:0,154, Accession Number: WOS:000277598900013,
http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=D22sTrHz5EbNRlFHEzj&page=3&doc=25
13. **Milosan, I.**, *Study About Some Clean Technologies Applied In Metallurgical Industry*, Metalurgia International Special Issue 2, P. 107-110; ISSN: 1582-2214, Published: 2009, FI:0,173, Accession Number: WOS:000265001400026,
http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=D22sTrHz5EbNRlFHEzj&page=4&doc=31
14. **Milosan, I.** (2009): *Some Aspects About the Pollution of the Industrial Process*; Metalurgia International, V. 15; Issue: 10; p. 73-74; ISSN: 1582-2214, Published: 2009, FI:0,173, Accession Number: WOS:00026851100014.
http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=D22sTrHz5EbNRlFHEzj&page=3&doc=28
15. Seceleanu, D; **Milosan, I**; Dobrota, R. (2003): *Some aspects about the mathematical modelling results of an SG cast iron with special properties*, Journal of Materials Processing Technology, Vol. 143-144, Pages: 175-178, ISSN (updated): 0924-0136 F.I.: 0,55, [http://dx.doi.org/10.1016/S0924-0136\(03\)00403-5](http://dx.doi.org/10.1016/S0924-0136(03)00403-5), Updated article, Quartile in Category: Q1; Accession Number: WOS:000187510100035.
http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=C2iKb7GLnLcWUi6JYYs&page=4&doc=33; https://www.researchgate.net/journal/0924-0136_Journal_of_Materials_Processing_Technology

- 16. Miloşan, I.** (2014): The manufacturing of a special wear-resistant cast iron used in automotive industry, Book Series: Procedia Social and Behavioral Sciences Volume: 109, Pages: 610-613, 2014, DOI: 10.1016/j.sbspro.2013.12.515, Accession Number: WOS:000335570200104.
http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=D22sTrHz5EbNRIfHEzj&page=1&doc=9
- 17. Miloşan, I.** (2012): *Heat Treatment Optimization for the Bearing Rings Fabrication*, 16th International Conference on Modern Technologies, Quality and Innovation -MODTECH 2012, Proceeding, vol II, pag. 589-592, ISSN: 2069-6736, Published: 2012, Accession Number: WOS:000392261800148.
http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=D22sTrHz5EbNRIfHEzj&page=2&doc=17
- 18. Butnariu, M., Miloşan, I.** (2012): *Best practices to increase progress in knowledge management*, WORLD CONFERENCE ON BUSINESS, ECONOMICS AND MANAGEMENT (BEM-2012) Book Series: Procedia Social and Behavioral Sciences, Volume: 62, Pages: 739-743 DOI: 10.1016/j.sbspro.2012.09.125 Published: 2012, Accession Number: WOS:000319841600120,
http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=D22sTrHz5EbNRIfHEzj&page=2&doc=13
- 19. Butnariu, M., Miloşan, I.** (2012): *Preliminary assessment of knowledge management in universities*, WORLD CONFERENCE ON BUSINESS, ECONOMICS AND MANAGEMENT (BEM-2012) Book Series: Procedia Social and Behavioral Sciences, Volume: 62, Pages: 791-795 DOI: DOI: 10.1016/j.sbspro.2012.09.133 Published: 2012, Accession Number: WOS:000319841600128,
http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=D22sTrHz5EbNRIfHEzj&page=2&doc=14
- 20. Miloşan, I.** (2016): *The Applying of the Romanowski Test for Identification of Data Affected by Errors*, European Scientific Journal, v. 12, n. 21, p. 18-24, ISSN: 1857-7431, 2016; doi: 10.19044/esj.2016.v12n21p18, 2016. BDI:EBSCO, ProQuest; Ulrich. <http://dx.doi.org/10.19044/esj.2016.v12n21p18>
<http://ejournal.org/index.php/esj/article/view/7740/7461>

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