Curriculum vitae Europass Name and surname: DUMITRU N.OLARU euro**bass** Address: Sf. Lazăr Street, no. 51, Iaşi, 700049, Romania PERSONAL INFORMATION 📞 Office phone: 0232 278 683 / int 2367 🗧 Mobile phone: +4 0746819481 E-mail: dumitru.olaru@academic.tuiasi.ro dumitru olaru@yahoo.com Marital status: married, two children. Gender: M | Date of birth: 19/10/1951 | Nationality: Romanian Technical University "Gheorghe Asachi" of Iasi, Mechanical Engineering Faculty, Department of Mechanical Engineering, Mechatronics and Robotics (I.M.M.R.), 43 Prof. Dimitrie Mangeron WORKPLACE Blvd., lasi, 700050 PROFESSIONAL EXPERIENCE Associate Emeritus Professor, supervisor of doctoral students, October 2022-present Technical University "Gheorghe Asachi" of Iasi, Mechanical Engineering Faculty, Department of Mechanical Engineering, Mechatronics and Robotics (I.M.M.R.) October 1999-Sept.2022 Professor Technical University "Gheorghe Asachi" of Iasi, Mechanical Engineering Faculty, Department of Mechanical Engineering, Mechatronics and Robotics (I.M.M.R.) October 1993-October 1999 Associate Professor Technical University "Gheorghe Asachi" of Iasi, Mechanical Engineering Faculty, Department of Machine elements and Tribology (O.M.T.) October 1986-October 1999 Lecturer Technical University "Gheorghe Asachi" of Iasi, Mechanical Engineering Faculty, Department of Machine elements and Tribology (O.M.T.) February 1979- October 1986 Assistant professor Technical University "Gheorghe Asachi" of Iasi, Mechanical Engineering Faculty, Department of Machine elements and Tribology (O.M.T.) EDUCATION AND TRAINING DAAD RESEARCH SCHOLARSHIP (August-September) 2004 Research topic: TRIBOLOGY OF MECHATRONICS MICROSYSTEMS HTW des Saarlandes, Saarbrucken, Germany DAAD RESEARCH SCHOLARSHIP (July-September) 2001 Research topic: TRIBOLOGY OF LINEAR GUIDANCE SYSTEMS HTW des Saarlandes, Saarbrucken, Germany

1994	TRAINING COURSES (3 weeks) Topic: DESIGN FOR QUALITY University of Bologna, Italy						
1991	Ph.D. in Mechar Scientific title of I Tribology). Ph.D.	Ph.D. in Mechanical engineering Scientific title of Doctor of Engineering in Mechanical Engineering (Machine elements and Fribology). Ph.D.Thesis in the field of high speed ball bearings					
1975	Graduated with Politechnique In	a degree in mecha stitute "Gh. Asachi"	anical engineerinç Iaşi, Faculty of Me	g (head of engineeri chanical Engineerir	ng promotion) ng.		
1970-1975	Student in the M	Student in the Mechanical Engineering Faculty, Politechnique Institute "Gh. Asachi" lași,					
1970	Baccalaureate [Baccalaureate Diploma - National college "Nicu Gane" from Fälticeni, Suceava.					
PERSONAL SKILLS							
Native language	Romanian language						
Other known foreign languages	COMPREHENSION		SPEAKING		WRITING		
	Listening	Reading	Conversation	Oral speech			
English	B1	B1	C1	C1	C1		
French	C1	C2	C1	C2	C1		
	Levels: A1/A2: Ele Common Europea	ementary user - B1/ an Framework of Re	B2: Independent u eference for Langu	iser - C1/C2: Experi ages	enced user		
Communication skills good communication skills acquired through experience of teaching various subjects in over 40 years of professional experience.							
Organizational/managerial skills	 Vice- dean in N 	Mechanical Enginee	ering Faculty (1997	7-2004) and (2016-2	2020);		
	- Responsible	for ERASMUS prog	rams from Mechar	nical Engineering Fa	aculty (1999-2008);		
	 Head of Mach Faculty (20) 	ine elements and M 08-2012);	lechatronics Depai	rtment from Mechar	nical Engineering		
	 Head of the M Mechanical 	lechanical Engineer Engineering Facult	ing, Mechatronics y (2012-2016);	and Robotics Depa	rtment from from		

- Member in the Senate of Technical University "Gheorghe Asachi" (2008-2012) and (2016-2020);
- Member in the National commission for the evaluation of the doctoral thesis (CNATDCU), Section of Mechanical engineering (2007-2010) and (2016-2018);
- Member of the organizing committee of TRIBOTEHNICA, COMEFIM, ACME, ROTRIB, BALKANTRIB conferences etc.

Skills in computer operation and		SE	LF-ASSESSMEN	NT			
programming	Processing information	Communication	Creating content	Security	Solving problems		
	Experienced user	Experienced user	Experienced user	Experienced user	Experienced user		
	Levels: Elementary user - Independent user - Experienced user						
	- knowledge- programm	e of working with com er in the following M	puters (Internet, athCAD languag	e-mail, Microsoft C je.	ffice, Adobe editor)		
Fields of expertise	 Tribology (r Biotribology Ball bearing Tribology of Tribological 	naterials, lubricants, l /; js, Rolling guidance s f mechatronics micros testings.	lubrication, frictio systems, Balls so systems;	n and wear); rew;			
Other skills	 Practical experi 	ence in designing and	d building materi	al and lubricant test	ting machines.		
Driving licence							
ADDITIONAL INFORMATION							

Most important books:					
(Co-author)	ROLLING BEARINGS-DESIGN AND TECHNOLOGY, Vol I and Vol II, Technical Publishing House, Bucharest, 1985. Coordinator Professor Mihai Gafiţanu				
	Awarded with the award of the Romanian Academy				
Author	FUNDAMENTALS OF LUBRICATION, "Gheorghe Asachi" Publishing House, Iaşi, 2002				
Author	 Technical Publishing House, Bucharest, 1985. Coordinator Professor Miha Galitanu Awarded with the award of the Romanian Academy FUNDAMENTALS OF LUBRICATION, "Gheorghe Asachi" Publishing House, Iaşi, 2002 TRIBOLOGY, ED.II, "Gheorghe Asachi" Publishing House, Iaşi, 2023 ablished D.N.Olaru and M.D.Gafitanu: Starvation in Ball Bearings, <u>Wear</u>, 170 (1993),219 D.N.Olaru and M.D.Gafitanu: Lubrication Safety in High-Speed Ball Bearings, <u>Lubrication Science</u>, 9-4, August 1997, pp. 365-389; D.N.Olaru and M.D.Gafitanu: A New Methodogy to Estimate Starvation in Ba Bearings, <u>Tribotest Journal</u>, 4-1, 1997, p. 93-106; M.D.Gatitanu, D.N.Gafitanu: A New Methodogy to Estimate Starvation in Ba Bearings, <u>Tribotest Journal</u>, 4-1, 1997, p. 93-106; M.D.Gatitanu, D.N.Gatitanu, A. New Methodogy to Estimate Starvation in Ba Bearings, <u>Tribotest Journal</u>, 4-1, 1997, p. 93-106; Berceal, J. Cretu, Sp., Bercea, M. Olaru, D.N.: Simulating Roller. Cage Pocket Fr. Tapered Roller Bearing, <u>European Journal Mech-Engineering</u>, vol.43, No.4, 1998, p. 189-194; Bercea, M. Bercea, I. Olaru, D.N., Nelias, D.: Polyethylene as an Additive for I Oils- Part I: Influence of the Polymer Concentration on the Film-Forming Proper Rolling Bearings, <u>STLE - TRIBOLOGY TRANSACTIONS</u>, Vol.42, 1999, 4, p. 85 Bercea, M., Bercea, I., Nellas, D., Olaru, D. N., TheThibologycal Behavior of Mine Additived with Polyteyhlene, <u>LUBRICATION SCIENCE</u>, 11-3, May 1999 (11), p. Gh. Manolache, Sp. Cretu, D.NOlaru, C.G. Bujoreanu, A study of thermal pher in the piston-ring and cylinder-sleeve tribosystem of an internal combustion eng flash temperature calculation, <u>LUBRICATION SCIENCE</u>, 12-2, Feb. 2000, p. 11 C.Oprişan, D.N Olaru, D.Leehchi, A New Method to Simulate the Elastic Intera the Tribosystems of a Multi				
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Author Most important published papers in international journals:	 D.N.Olaru and M.D.Gafilanu: Starvation in Ball Bearings, Wear, 170 (1993),219-234; D.N.Olaru and M.D.Gafilanu: Lubrication Safety in High-Speed Ball Bearings, Lubrication Science, 9-4, August 1997, pp 365-389; D.N.Olaru and M.D.Gafilanu: A New Methodology to Estimate Starvation in Ball Bearings, <u>Tribotest Journal</u>, 4-1, 1997, pp.3-106; M.D.Gafilanu, D.N.Olaru und M.C.Coccea: Die Verluste Wegen Der Reibung In Radial- Axial – Kugellagem Bei Hohen Drehzahlen, <u>Wear</u>, 160 (1993), 51-60; Bercea, I., Gretu, Sp., Bercea, M. Olaru, D.N.; Simulating Roller- Cage Pocket Friction in a Tapered Roller Bearing, <u>European Journal Mech.Engineering</u>, vol. 43, No.4, 1998, p.189-194; Bercea, M. Bercea, I. Olaru, D.N., Nelias, D.: Polyethylene as an Additive for Minearl Olis: Part I: Influence of the Polymer Concentration on the Film-Forming Properties in Rolling Bearings, <u>STLE - TRIBOLOGY TRANSACTIONS</u>, Vol. 42, 1999, 4, p.851-859; Bercea, M., Bercea, I., Nelias, D. Olaru, D.N., The Tribologycal Behavior of Mineral Olis Additived with Polyethylene, <u>LUBRICATION SCIENCE</u>, 11-3, May 1999 (11), p.247-270; Gh. Manolache, Sp. Cretu, D.N.Olaru, C.G. Bujoreanu, A study of thermal phenomena in the piston-ring and cylinder-sleeve tribosystem of an internal combustion engine and Itash temperature calculation, <u>LUBRICATION SCIENCE</u>, 12-2, Feb. 2000, p.115-131. C.Oprişan, D.N.Olaru, D.Leonchi, A New Method to Simulate the Elastic Interactions in the Tribosystems of a Multi-Bar Mechanism, <u>TRIBOTEST JOURNAL</u>, 9-2, December 2002 (9), p.157-169. Olaru, D.N. Stamate, C: Prisacaru, G Rolling Friction in a MicroTribosystem, <u>TRIBOLOCY LETTERS</u>, Volume: 33, Issue: 3, 2009, Pages: 205-210; Dumitru N. Olaru, Ciptan Stamate, Alina Dumitrascu, Gheorybe Prisacaru - New microlribometer for rolling friction, <u>WEAR</u>, Volume 271, Issues 5-6, 22 June 2011, Pages 842-852. V. Carlescu, D. Olaru, T., Fe				
	2017, Pages 294–305,(Online				
	11,2016),http://www.sciencedirect.com/science/article/pii/S0301679X16304704.				
	Machado, Sensors and Actuators on Determining Parameters for Beina Considered				
	in Selection of Elastomers for Biomimetic Hands, <u>SENSORS</u> , (2017), Jun; 17(6): 1190.				
	Published online 2017 May 23. doi: <u>10.3390/s17061190</u> , https://www.pcbi.plm.pib.gov/pmc/articlos/PMC5400620/				
	 Andrei Popescu, Luc Houpert, Dumitru N Olaru, Four approaches for calculating power 				
	losses in an angular contact ball bearing, <u>MECHANISM AND MACHINE THEORY</u> , (2020),				
	vol.144, February 2020, articol nr. 103669.				
	nups://www.scienceairect.com/science/article/abs/pii/S0094114X19312029				

Participation at most important Tribological International Conferences:	Int. Coloquium of Tribology, Esslingen, Germany, 1996, 1998,2000,2004,2004, Int. Conferences of Tribology:BALKANTRIB'20-Belgrad, ROTRIB'2019-Cluj Napoca, BALKANTRIB 2014-Sinaia, ROTRIB 2010-IASI, ROTRIB 2007-Bucureşti, ROTRIB 2003 Galaţi, BALKANTRIB 1999 Sinaia, NORDTRIB 1994-Uppsala, EUROTRIB 1993 Budapesta.
Other publications:	Over 120 papers published in International Proceedings of the conferences (50 are WOS indexed). Two invention patents; 655 citations in Google Scholar with h-index = 13 329 citations in SCOPUS with h-index =10
ERASMUS programs:	HTW des Saarlandes, Saarbrucken, Germany (1999-2004); INSA Lyon France (1999, 2000); Twente University (2008);
TEMPUS programs:	University of Sevillia, Spain (april 2000); University of Toulouse, France (1999).
Member in professional • associations •	Member of the Romanian Association of Tribology (ART) Member of the professional associations Romanian Mechatronics Society – SROMECA.

Activity as a reviewer for WoS-listed journals

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Reviewer for WOS journals: <u>Tribology International</u>, <u>Sensors</u>, <u>Lubricants</u>, <u>Mechanism and</u> <u>Machine Theory</u>

Date: 30.10.2023

Signature:

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	A new model to D Olaru, GC Puiu, Product engineerin	estimate friction torque in a ball screw system LC Balan, V Puiu g: eco-design, technologies and green energy, 333-346	78	2005		. I		90	
	The influence o	f the lubricant viscosity on the rolling friction torque	60	2014				60	
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	New micro tribo	meter for rolling friction	33	2011	Coautori		EDIT	AŢI	
	Wear 271 (5-6), 84	ite, A Dumitrascu, G Prisacaru 2-852							
	Influence of the	cage on the friction forque in low loaded thrust ball bearings operating in	n 29	2017	Nu există coautori				
	Iubricated cond DN Olaru, MRD Bă Tribology Internatio	itions Ian, A Tufescu, V Cârlescu, G Prisacaru nal 107, 294-305	20						
	Rolling friction t MRD Bălan, L Hou	orque in ball-race contacts operating in mixed lubrication conditions	29	2015					

