







PERSONAL INFORMATION

Tătar Mihai Olimpiu



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-  Yahoo Messenger: olimpiut

Sex Male | Date of birth 06/09/1969 | Nationality Romanian

WORK EXPERIENCE

- | | |
|-------------------------|--|
| 01.10.2013-present | <p>Professor, Faculty of Mechanical Engineering</p> <p>Technical University of Cluj-Napoca (TUC-N), Str. Memorandumului nr. 28, 400114, Cluj-Napoca, Romania, www.utcluj.ro</p> <p>Courses, seminars, project activities, diploma works (students in the 2nd, 3rd, 4th years of study, Master)</p> <ul style="list-style-type: none"> ▪ Didactical activities for: Robotics, Elements for Mechanical Engineering, Micro and Nanosystems Design Basics, Autonomous Intelligent Agents. <p>Business or sector Education and Research</p> |
| 01.10.2007-01.10.2013 | <p>Associate Professor, Faculty of Mechanical Engineering</p> <p>Technical University of Cluj-Napoca (TUC-N), Str. Memorandumului nr. 28, 400114, Cluj-Napoca, Romania, www.utcluj.ro</p> <p>Courses, seminars, project activities, diploma works (students in the 1st, 2nd, 3rd, 4th years of study, Master)</p> <ul style="list-style-type: none"> ▪ Didactical activities for: Robotics, Mechanisms for Precision mechanics, Mechanisms for mechatronics, Micro and Nanosystems Design Basics, Elements for Mechanical Engineering, Elements for mechanics and mechanisms. <p>Business or sector Education and Research</p> |
| 01.10.2002 - 01.10.2007 | <p>Lecturer, Faculty of Mechanical Engineering</p> <p>Technical University of Cluj-Napoca (TUC-N), Str. Memorandumului nr. 28, 400114, Cluj-Napoca, Romania, www.utcluj.ro</p> <p>Courses, seminars, design activities, diploma works (students in the 1st, 2nd, 3rd, 4th years of study, Master)</p> <ul style="list-style-type: none"> ▪ Didactical activities for: Mechanics, Mechanisms for Precision Mechanics, CAD, Mechanisms, Mechatronics <p>Business or sector Education and Research</p> |
| 25.02.1999 - 01.10.2002 | <p>Assistant Professor, Faculty of Mechanical Engineering</p> <p>Technical University of Cluj-Napoca (TUC-N), Str. Memorandumului nr. 28, 400114, Cluj-Napoca, Romania, www.utcluj.ro</p> <p>Seminars, design activities, diploma works (students in the 1st, 2nd, 3rd, 4th years of study)</p> <ul style="list-style-type: none"> ▪ Didactical activities for: Techniques for information acquisition, Activities and computer equipments, Robotics, Mechanics <p>Business or sector Education and Research</p> |
| 25.02.1998 - 25.02.1999 | <p>Teaching assistant, Faculty of Mechanical Engineering</p> <p>Technical University of Cluj-Napoca (TUC-N), Str. Memorandumului nr. 28, 400114, Cluj-Napoca, Romania, www.utcluj.ro</p> |

Seminars, design activities
 Didactical activities for: Constructive elements of precision mechanics, Techniques for information acquisition, Installations for precision mechanics

Business or sector Education and Research

01.10.2002 - 01.10.2007

PhD Student, Faculty of Mechanical Engineering

Technical University of Cluj-Napoca (TUC-N), Str. Memorandumului nr. 28, 400114, Cluj-Napoca, Romania, www.utcluj.ro

Research and work activities at Mechanisms disciplines

Business or sector Education and Research

EDUCATION AND TRAINING

2004

Ph. D.

EQF Level 8

Technical University of Cluj-Napoca, Faculty of Mechanical Engineering, Romania

Title of thesis: Studies and research concerning the driving systems of the microrobots, PhD in Mechanical engineering

1995-1996

Advanced Degree

EQF Level 7

Technical University of Cluj-Napoca, Faculty of Mechanical Engineering, Specialization: Methods and Advanced Methodologies in Engineering and Quality Assurance Management

- Engineering sciences and Quality Assurance Management

1990-1995

Engineering Degree

EQF Level 6

Technical University of Cluj-Napoca (TUC-N); Faculty of Machine Building; Specialization: Engineering and Management of the Production Systems; specialization: Economic Engineering, Bachelor's Degree – 1995

- Economic and Engineering sciences

1984-1988

High School Diploma

EQF Level 5

“Mihai Eminescu” High school from Satu-Mare, mathematics - physics profile;

- Mathematics, physics and general subjects

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	A1	A1	A1	A1	A1
French	A1	A1	A1	A1	A1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
 Common European Framework of Reference for Languages

Communication skills

Good communication and team work abilities, due to the activity within the university, as coordinator of teams of students, researchers, and experts;

- International experience acquired through the professional visits abroad (France, Spain, Poland, Hungary).

Organisational / managerial skills

Organising skills were gained by graduating the speciality of Engineering and Management of Manufacturing Systems.
 Within the department of Mechanisms, Precision Mechanics and Mechatronics, I have participated in the organising process of several scientific exhibitions, as follows:
 - 8-10 June 2006 –member of the scientific committee and organising committee of COMEFIM 8 - The 8th International Conference on Mechatronics and Precision Engineering, Cluj-Napoca.
 - June 2002 – member of the organising committee for the first National Seminar of Mechatronics SEDMEC, Cluj-Napoca;
 - June 2003 – member of the organising committee for the second National Seminar of Mechatronics, Cluj-Napoca,
 - June 2004 – member of the organising committee for the 9th International Conference of Mechanisms and Mechanical Transmissions, MTM 2004, Cluj-Napoca,
 - 22-23 September 2005 – member of the organising committee for the Mechatronics Seminar with international participants, Cluj-Napoca;
 - April, 2007 – member of the organising committee of the second National Seminar of Mechanisms, Cluj-Napoca.
 - 8-11 mai, 2012- member of the organising committee for The National Conference of Technical Education and Educational Technologies - CNETTE 2012, Cluj-Napoca;
 - 6th of October 2012 – member of the organising committee for FES-EXOSKELETON Hybrid System Workshop, for upper limb recovery for individuals with neuromotor disabilities,
 - Executive coordinator for two research contracts (type A and IDEI) in 2006-2010

Job-related skills

- Skills in: Mechanisms, Precision Mechanics, Robotics (mini and microrobots), Mechatronics, Management

Computer skills

- good command of Microsoft Office™ tools (Word™, Excel™, PowerPoint™ and Photo Editor™), WordPerfect Office, Working Model, Solid Works, 3DStudioMax, Matchad, CorelDRAW, Fox Pro

Other skills

- football, table tennis

Driving licence

- B

ADDITIONAL INFORMATION

Publications

- Published scientific papers: over 170;
- Books: 5, out of which main author for one;
- Book chapters: 6
- Laboratory supervisor: 1
- - Patents: 1

Relevant publications (selection):

Tătar, M.O., Mândru, D., Ardelean, I., - Development of Mobile Minirobots for In-Pipe Inspection Tasks, *Mechanika*, nr. 6(68), 2007, pp. 60-64, ISSN 1392-1207, [ISI].

Aluței, A., **Tătar, M.O.**, Cirebea, C., - Model and test of a modular inspection robotic system, *Mechanika*, Nr.4(84), 2010, pp. 58-61, ISSN 1392-1207, [ISI].

Tătar, M.O., Aluței A., Mândru, D., - In-pipe Modular Robotic Systems for Inspection and Exploration, *Solid State Phenomena*, Vol. 164, 2010, pp. 425-430, ISSN 1662-9779, doi:10.4028/www.scientific.net/SSP.164.425, [SCOPUS].

Tătar, M.O., Aluței A., Cirebea C., - In Pipe Modular Robotic System for Moving Inside of Pipelines Part 1, *Solid State Phenomena*, Vol. 166 - 167, 2010, pp. 403-408, Vol. Robotics and Automation Systems, Trans Tech Publications, Switzerland, ISBN -13 978-3-908451-88-4, doi:10.4028/www.scientific.net/SSP.166-167.403, [SCOPUS].

Aluței A., **Tătar, M.O.**, Cirebea C., - In Pipe Modular Robotic System for Moving Inside of Pipelines Part 2, *Solid State Phenomena*, Vol. 166 - 167, 2010, pp. 409-414, vol. Robotics and Automation Systems, Trans Tech Publications, Switzerland, ISBN - 13 978-3-908451-88-4, doi:10.4028/www.scientific.net/SSP.166-167.409, [SCOPUS].

Tătar, M.O., Cirebea C, Mândru, D., The Development of an In-Pipe Minirobot for Various Pipe Sizes, *2012 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2012)*, May 24-27, 2012, Cluj-Napoca, pp. 443 - 448, ISBN 978-1-4673-0703-1 [**ISI Proceedings / IEEEExplore / SCOPUS**].

Tătar, M.O., Cirebea C, Mândru, D., Chetran, B., - Synchronous Drive Omnidirectional Minirobot, *Applied Mechanics and Materials*, Vol. 162 (2012), pp. 294-301, Trans Tech Publications, Switzerland, ISBN 13 978-3-03785-395-5, doi:10.4028/www.scientific.net/AMM.162.294 [**SCOPUS**].

Tătar, M.O., Cirebea C, Mândru, D., - Structures of the Omnidirectional Robots with Swedish Wheels, *Solid State Phenomena, vol. 198 (Mechatronic Systems and Materials IV)*, 2013, pp. 132-137, Trans Tech Publications, Switzerland, ISBN-13: 978-3-03785-637-6. [**SCOPUS**].

Tătar, M. O., Mândru, D., Jișa, S., - Development of the Microrobot for Indoor Pipeline, *Applied Mechanics and Materials*, Vol. 658, pp 724-729, 2014 Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/AMM.658.724. [**SCOPUS**]

Tătar, M.O., Popovici, C., Mândru, D., Ardelean, I., Pleșa, A., - Design and Development of an Autonomous Omni-Directional Mobile Robot with Mecanum Wheels, The 2014 IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2014 - THETA 19, May 22-24, 2014, Cluj-Napoca, Romania; pp. 1-6, ISBN: 978-1-4799-3732-5, doi: 10.1109/AQTR.2014.6857869, [**ISI Proceedings/ IEEEExplore/SCOPUS**].

Books

Mătieș, V., Mândru, D., **Tătar, M.O.**, Mătieș, M., Csibi, V., - *Actuators in mechatronics (in romanian)*, published by Mediamira, Cluj-Napoca, 2000, ISBN 973-9358-16-0, 309 pages.

Mătieș, V., Mândru, D., Bălan, R., **Tătar, M.O.**, Rusu, C., - *Mechatronic technology and education (in romanian)*, published by Toderco, Cluj-Napoca, 2001, ISBN 973-8198-05-4, 500 pages.

Mătieș, V., Miroiu, S.C., Mândru, D., Bălan, R., **Tătar, M.O.**, Rusu, C., - *Mechatronic technology and education - Auxiliary curriculum (in romanian)*, published by ECONOMICA, Cluj-Napoca, 2002, ISBN 973-8318-16-5, 480 pages.

Mândru, D., Crișan, R., **Tătar, M.O.**, Noveanu, S., - *Actuators in Precision Mechanics and Mechatronics (in romanian)*, published by Alma Mater, Cluj-Napoca, 2004, ISBN 973-8397-69-3, 472 pages

Tătar, M.O., Mătieș, V., Mândru, D., - *Mini și microrobots (in romanian)*, published by Toderco, Cluj-Napoca, 2005, ISBN 973-8198-92-5, 310 pages.

Book chapters (selection):

Tătar, M.O., Aluței, A., Mândru, D., - *Mobile minirobots structures*, The 10th IFToMM International Symposium on Science of Mechanisms and Machines, SYROM'09, October 12 - 15, 2009, Brașov, Romania, pp. 185-192. in Editura Springer GmbH, I., Vișa (Ed.) ISBN 978-90-481-3521-9, DOI: 10.1007/978-90-481-3522-6_14 [**SpringerLink**].

Tătar, M.O., Cirebea C., Aluței A., - *The modular robotic system for in-pipe inspection*, The 3rd European Conference on Mechanism Science EUCOMES 2010, 14-18 September 2010, Technical University of Cluj-Napoca, Romania, lucrare publicata în: *New Trends in Mechanisms Science: Analysis and Design, Mechanisms and Machine Science*, Vol. 5, Part 10, D. Pislă et al. eds., pp. 583-591, Springer GmbH, 2010, DOI 10.1007/978-90-481-9689-067, ISBN 978-90-481-9688-3 [**SpringerLink**].

Tătar, M.O., Cirebea C. Aluței A., Mândru D., - *Minirobots with adaptable structure for in pipe inspection*, MECHATRONIC SYSTEMS AND MATERIAL 2010, SELECTED PAPERS, Eds. E. Macha, R. Pawliczek, Opole University of Technology, Opole, Poland, 2011, ISBN 978-83-62736-16-4, pp. 229-241.

Projects

- Coordonator for two research contracts and member of over 20 contracts.

Contract manager:

- Contract type A, no. 2783 / 2006, Topic A13, CNCSIS Code: 1295 - Modeling, simulation and development of mobile minirobots with adaptable structure, Contract manager, Ongoing period 2006-2007. Beneficiary CNCSIS, Contract value 32 000 RON

- Contract type PN-II Idei-ID_1056, no.85/2007 - Modelling, simulation and development of robotic system families used for inspection and exploration, Contract manager, Ongoing period 2007-2010, Beneficiary CNCSIS, Contract value 713 992 RON.

Research team member (selection):

- Partnership Program, Financing contract no. 180 din 02.07.2012/ UEFISCDI – FES Exoskeleton hybrid system, for upper limb recovery for individuals with neuromotor disabilities (*EXOSLIM*), Scientific official, Partner P1_UTCN: Prof.dr.ing. Măndru Dan, Period 2012-2014, Beneficiary UEFISCDI;
- Project - POSDRU/87/1.3/S/64069 - FlexFORM – Program for flexible professional forming on mechatronic platforms, Project manager: Prof.dr.ing. Mătieș Vistrian, Period 2010-2013, Beneficiary AM POSDRU + UE, - *Human resources official*;
- Partnership Program, No. 71-129 – *Mechatronic actuating systems, achieved with new types of actuators, for applications in robotics and other fields*, Scientific official, Partner UTCN: Prof. Dr. Ing. Mătieș Vistrian, Period 2007-2010, Beneficiary UEFISCDI/CNMP;
- Capacity Program, no. 111 / CP / I 14.09. 2007- *Multifunctional regional mechatronics laboratory*, Contract Manager: Prof. Dr. Ing. Mătieș Vistrian, Period 2007-2010, Beneficiary ANCS.
- Contract type CE-EX M1 - 2353 – *Advanced pneumatic systems for precise actuating in robotics and other industrial applications, based on the development of new types of proportional servodistributors in a mechatronic view (SPASERVODIST)*, Contract number 89/31.07.2006, Scientific official, Partner P2 UTCN: Prof. dr. ing. Mătieș Vistrian, Period 2006-2008, Beneficiary ANCS,
- Contract type CE-EX. M1-493 - *Robotic system with reconfiguration abilities and self-multiplication; (ROMAR)*, Contract number 91/31.07.2006. Scientific official partener P3 UTCN: Prof. dr. ing. Măndru Dan; Period 2006-2008, Beneficiary ANCS.
- Contract type A, no. 2783 / 23.05.2006, CNCSIS Code 1294, theme A8 – *Research regarding the development of an interactive system for learning the Braille alphabet and the sign language*, Project Manager Prof.dr.ing. Măndru Dan, Period 2006-2007, Beneficiary CNCSIS
- Contract type A, no. 34702 / 2005 TEMA A5, CNCSIS Code 899 – *The cinematic and dynamic optimization of complex articulated lever mechanisms used for building flexible material processing systems, testing and control*, Project manager: Prof.dr.ing. Ardelean Ioan, Period 2004-2006, Beneficiary CNCSIS
- Contract type A, no. 33385/ 2004, theme A26, CNCSIS Code 1051- *Research regarding the robotic systems destined for individuals with disabilities*, Project manager: Prof.dr.ing. Măndru Dan, Period 2004-2005, Beneficiary CNCSIS;
- Contract type A / 2001 (CNCSIS Code 1197) – *Research regarding the analysis and synthesis of the main functions of intelligent mechatronic systems*, Project manager: Prof.dr.ing. Mătieș Vistrian, Period 2001-2003, Beneficiary CNCSIS.

Conferences

Participant to international scientific manifestations 2007-2013, (selection):

2007

- The 1st International Conference on Advancements of Medicine and Health Care through Technology, MediTech2007, Cluj-Napoca;
- The 12th IFToMM World Congress, Besancon, 2007;
- The 3rd International Conference Mechatronic Systems and Materials, MSM 2007, Kaunas;
- The 35th International Symposium on Agricultural Engineering, Opatija, Croatia, 2007;

2008

- The 2008 IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2008, THETA 16th edition - Cluj Napoca, Romania,
- The 7th France-Japan Congress on Mechatronics, Le Grand-Bornand, France;
- The 79th Annual Meeting of the International Association of Applied Mathematics and Mechanics (GAAM 2008), Bremen, Germany;
- The 4th International Conference Mechatronic Systems and Materials, MSM 2008, Bialystok, Polonia

2009

- The 5th International Conference Mechatronic Systems and Materials (MSM 2009), Vilnius, 2009
- The Xth IFToMM International Symposium on science of Mechanisms and Machines, SYROM 2009, Braşov, 2009;
- The 2nd International Conference Advancements of Medicine and Health Care through Technology, MediTech 2009, Cluj – Napoca.

2010

- The 6th International Conference Mechatronic Systems and Materials - MSM 2010, Opole; Poland;
- The 5th International Conference Robotica 2010, Cluj - Napoca;
- The 2nd International Conference on Innovations, Recent Trends and Challenges in Mechatronics, Mechanical Engineering and New High-Tech Products Development, 2010, Bucuresti;
- The 3rd European Conference on Mechanism Science EUCOMES 2010, Cluj –Napoca;
- The 2010 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR) Theta 17, Cluj-Napoca, 2010;

2011

- The 3rd International Conference on Advancements of Medicine and Health Care through Technology, MediTech 2011, Cluj-Napoca;
- The 7th International Conference Mechatronic Systems and Materials - MSM 2011, Kaunas, Lithuania;
- The 10th International Conference on Mechatronics and Precision Engineering, COMEFIM 10, București, 2011;

2012

- The 2012 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2012), Cluj-Napoca;
- The MTM & Robotics 2012 - The Joint International Conference of the XI International Conference on Mechanisms and Mechanical Transmissions (MTM) and the International Conference on Robotics (Robotics'12), Clermont-Ferrand, France, 2012;
- The 8th International Conference Mechatronic Systems and Materials 2012, MSM'2012, Bialystok, Poland;

2013

- The 9th International Conference Mechatronic Systems and Materials 2013, MSM'2013, Vilnius, Lithuania
- The 17th International Conference on System Theory, Control and Computing Joint Conference SINTES 17, SACCS 13, SIMSIS 17, Sinaia, România
- The 9th International Conference Mechatronic Systems and Materials 2013, MSM'2013, Vilnius, Lithuania.
- The 11th IFToMM International Symposium on Science of Mechanisms and Machines Mechanisms and Machine Science – SYROM 2013, November 11-12, 2013, Brașov, Romania;

2014

- The 4th International Conference on Advancements of Medicine and Health Care through Technology – MediTech2014, June 5 - 7, 2014, Cluj-Napoca, Romania;
- The 2014 IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2014 - THETA 19, May 22-24, 2014, Cluj-Napoca, Romania;
- The 6th International Conference on Advanced Concepts in Mechanical Engineering – ACME2014, June 12-13, 2014, Iași, Romania;
- The 6th International Conference on Robotics - ROBOTICA 2014, October 23-25, 2014, Bucharest, Romania.

Honours and awards

- The PhD Thesis presented under the scientific coordination of Prof. Mătieș Vistrian and has been granted with the MAGNA CUM LAUDE title;
- Excellence prize of the Mechanical Engineering faculty for young researchers - in year 2004;
- Professor Bologna 2012;
- Excellence Award and Academic distinction awarded by the Technical University of Cluj-Napoca for the teaching activity in 2013.
- Excellence Award and Gold Medal for the *Self-propelled modular robot* patent in the XIth Edition of the International Invention Exhibition PROINVENT, Cluj-Napoca, 2013.
- Excellence Award and Gold Medal for the *Modular upper limb exoskeleton, with applications in rehabilitation* patent in the XIIIrd Edition of the International Invention Exhibition PROINVENT, Cluj-Napoca, 2015.

Memberships

- International Federation for Promotion the Science of Machines and Mechanisms (IFToMM);
 - General Association of Engineers from Romania (AGIR);
 - Romanian Association of the Theory of Machines and Mechanisms (ARoTMM);
 - Romanian Association of Robotics (ARR);
 - Romanian Society of Mechatronics (SROMECA).
-
- Member in the research collective of the Mechatronics Research center in Cluj-Napoca;
 - Member of the Reconfigurable Intelligent Systems Laboratory (SIR);
 - Member of the Council of the Faculty of Mechanical Engineering;
 - Member in two committees for the analysis of PhD thesis within Technical University of Cluj-Napoca;
 - Member in contest committees for didactic positions within the MDM (Mechatronics and Machine Dynamics) department;
 - Member in committees for evaluating graduating papers and dissertation papers within the MDM (Mechatronics and Machine Dynamics) and ART (Road Vehicles and Transports) departments;
 - Quality official within the Technical University.

- Specializations
- 27 Mai - 24 June 1998 at French Institute of Advanced Mechanics, Aubiere, France;
 - 05 - 12 December 1999 at Technical University of Budapest and Veszprem, Hungary;
 - 21 July - 19 August 2000 at Centro Politechnico Superior Zaragoza, Spain;
 - 29 October - 2 November 2001 – lecture on Lego systems, organized by Eastern Europe branch of LegoDacta from Denmark, Cluj-Napoca;
 - 01 February - 24 February 2002 at Centro Politechnico Superior Zaragoza, Spain;
 - 4 July - 11 July 2008 at training centre Global Interface from Zaragoza, Spain;
 - 13 July -22 July 2008 at Bialystok Technical University, Poland;
 - 13 october -20 october 2008 at training centre Global Interface from Zaragoza, Spain;
 - 8th of June - 15th of June, 2009 - at the Global Interface training center from Zaragoza, Spain and at the Escuela Universitaria Politécnica La Almunia de Doña Godina (EUPLA) from the Zaragoza University.

ANNEXES

List of published papers;

Cluj-Napoca
22 05 2015

Prof. Tătar Mihai Olimpiu PhD. Eng.

