

PERSONAL INFORMATION



Dr. István Bíró

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Sex Male | Date of birth 25/01/1960 | Nationality Hungarian

WORK EXPERIENCE

From 1 July 2017	Dean of the Faculty Faculty of Engineering University of Szeged, 7, Mars square, 6724, Szeged, Hungary
From 1 July 2010	Head of Department Faculty of Engineering University of Szeged, 7, Mars square, 6724, Szeged, Hungary
From 1 July, 2009	Associate professor Faculty of Engineering University of Szeged, 7, Mars square, 6724, Szeged, Hungary
01.01.2008—30.06.2009.	Head of faculty, associate professor College of Szolnok Technical and Agricultural Faculty, 1., Petőfi sq., H-5400, Mezőtúr, Hungary
01.01.2006—31.12.2007	Deputy rector responsible for education, associate professor College of Szolnok Technical and Agricultural Faculty, 1., Petőfi sq., H-5400, Mezőtúr, Hungary
01.09.2001—31.12.2005	Deputy general director responsible for education, associate professor College of Szolnok Technical and Agricultural Faculty, 1., Petőfi sq., H-5400, Mezőtúr, Hungary
01.01.1997—15.11.2007	Head of Department Technical Basic Subjects, associate professor College of Szolnok Technical and Agricultural Faculty, 1., Petőfi sq., H-5400, Mezőtúr, Hungary
01.09.1987—31.12.1996	Teacher College of Szolnok Technical and Agricultural Faculty, 1., Petőfi sq., H-5400, Mezőtúr, Hungary
01.09.1984—31.08.1987	Construction mechanical engineer College of Szolnok Technical and Agricultural Faculty, 1., Petőfi sq., H-5400, Mezőtúr, Hungary

EDUCATION AND TRAINING

2016	Habilitation
1995-1999	PhD, Technical science Szent István University
1979-1984	Agricultural Mechanical Engineer Szent István University

PERSONAL SKILLS

Mother tongue(s) Hungarian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
German	B1	B1	B1	B1	B1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills ▪ Good communication skills

Organisational / managerial skills ▪ Excellent experience in education
 ▪ Good organisational skills
 ▪ Good time management skills, attention to details and ability to meet deadlines

Job-related skills ▪ High workload
 ▪ Problem-solving attitude
 ▪ Relevant experience in applied mechanics

Digital competence	SELF-ASSESSMENT				
	Information processing	Communication	Content creation	Safety	Problem solving
	Independent user	Proficient user	Proficient user	Independent user	Proficient user

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

▪ Advanced knowledge of MS Windows, MS Office

Driving licence A, B, C

ADDITIONAL INFORMATION

Publications Over 100 published conference and journal papers.

The 10 most important papers:

- 1) Bíró István, Fekete Gusztáv: Approximate Method for Determining the Axis of Finite Rotation of Human Knee Joint. ACTA POLYTECHNICA HUNGARICA 11:(9) pp. 61-74. (2014) (ISBN 17858860) IF: 0,649
- 2) István Bíró; Béla M. Csizmadia; Gusztáv Fekete: Numerical sensitivity analysis on anatomical landmarks with regard to the human knee joint. ACTA POLYTECHNICA HUNGARICA (ISSN: 1785-8860) 13:(5) pp. 7-26. (2016), IF (2014): 0,649
- 3) István Bíró; Livija Cveticanin: Procedures for determination of elastic curve of simply and multiple supported beams STRUCTURAL ENGINEERING AND MECHANICS (ISSN: 1225-4568) 60:(1) pp. 21-30. (2016), IF (2015): 1,021
- 4) J. Sárosi, I. Bíró, J. Németh, L. Cveticanin: Dynamic Modelling of a Pneumatic Muscle Actuator with Two-direction Motion. MECHANISM AND MACHINE THEORY 85: pp. 25-34. (2015) IF (2015): 1,689
- 5) L. Cveticanin, M. Zukovic, Gy. Mester, I. Biro, J Sarosi: Oscillators with symmetric and asymmetric quadratic nonlinearity. ACTA MECHANICA 227:(6) pp. 1727-1742. (2016) IF (2015): 1,694
- 6) Livija Cveticanin, Gyula Mester, Istvan Biro: Parameter Influence on the Harmonically Excited Duffing Oscillator. ACTA POLYTECHNICA HUNGARICA (ISSN: 1785-8860) 11:(5) pp. 145-160. (2014) IF: 0,649
- 7) Istvan Bíró: Examples for Practice in Mechanical Motion for Mechanical Engineers. Saarbrücken: Lambert Academic Publishing, 2015. 65 p. (ISBN:978-3-8433-5926-9)
- 8) G. Fekete, B. M. Csizmadia, M. A. Wahab, P. Baets, L. Vanegas-Useche, I. Biro: Patellofemoral Model of the Knee Joint Under Nonstandard Squatting. DYNA-COLOMBIA 81:(183) pp. 60-67. (2014) IF (2013): 0,217
- 9) István Bíró: Synthesis of Some Mechanisms Using Natural Coordinates. INTERDISCIPLINARY DESCRIPTION OF COMPLEX SYSTEMS 12:(3) pp. 255-262. (2014) (ISSN 1334-4676)
- 10) Katona G., Csizmadia B., Bíró I., Andrónyi K., Krakovits G.: Motion Analysis of Human Cadaver Knee-joints Using Anatomical Coordinate System. BIOMECHANICA HUNGARICA III:(1) pp. 93-100. (2010) ISSN: 2060-4475