



### **Personal information**

Name: Attila Kővári Dr.

Date of birth: 1975

Nationality: Hungarian

Telephone: +36-30-387-4943

E-mail: [kovariati@outlook.com](mailto:kovariati@outlook.com)

### **Education**

2017 *MSc, Mechanical engineer, University of Dunaújváros*

2015 *MA, Teacher of Engineering (IT), University of Dunaújváros*

2014 *PhD, Materials science and technology, University of Pannonia*

2010 *MSc, Specialized engineer in hydraulics-pneumatics, University of Miskolc*

2010 *MA, E-government expert engineer, University of Pannonia*

2001 *MSc, Electrical engineer, Budapest University of Technology and Economics*

### **Work experience, administrative roles**

2005- *Head of Department (2015-), Associate Professor (2017-)*

Department of Natural Sciences and Environmental Protection  
Institute of Engineering  
University of Dunaújváros  
[www.uniduna.hu](http://www.uniduna.hu)  
kovari@uniduna.hu

2016- *Assistant Professor*

Department of Technical Education  
Faculty of Economic and Social Sciences  
Budapest University of Technology and Economics  
<http://www.mpt.bme.hu/>  
kovari.a@eik.bme.hu

2005-2016 *expert, head of analytical expertise*

Department of Technical Development  
Directorate of Investments,  
ISD Dunaferr Ltd.  
<http://www.dunaferr.hu/en/>

2003-2004 *development engineer*

Falcon-Vision Rt.  
<http://www.falcon-vision.com/en/index/index/>

2001 *systems engineer*

Hirigh Szoftver Bt.

## Areas of Research Interest

- Informatics:
  - Application of human-machine interfaces in human-computer interactions
  - Application of brain-computer interfaces
  - Application of eye-tracking
  - Cognitive Infocommunication technologies in education
  
- Mechatronics:
  - Complex real-time control and test systems
  - Leakage detection of servo hydraulic systems
  - Optimized inverter control algorithms for induction motors
  - Mechatronic systems in education

## Head of research groups at University of Dunaújváros

2017-	Application of Brain-Computer Interfaces
2017-	Application of Eye-tracking analysis
2016-	CogInfoCom Based LearnAbility
2016-	Electro mobility

## Funded Research Projects

- Government Grants
  - 2017.09- EFOP-3.6.2-16-2017-00018, researcher
  - 2017.07- EFOP-3.4.3-16-2016-00017, curriculum developer
  - 2017.03- EFOP-3.6.1-16-2016-00003, research team leader
  - 2015.03-10 TÁMOP 4.2.1.C-14/1/Konv-2015-0009, research team member
  - 2013-2014 TÁMOP 4.1.2.D-12/1/KONV-2012-0016, teacher
  - 2011-2012 TÁMOP 4.2.1-09/1-2009-0002, researcher
  - 2009-2011 TIOP 1.3.1-07/1-2F-2009-0001, lab development coordinator
  - 2009-2011 TÁMOP 4.2.2-08/1/2008-0016, research group member
  
- Industry Grants
  - 2015 System development for automotive industry (ISD Dunaferr Ltd)
  - 2014-2015 Installation of automatic surface inspection system in Cold Rolling Mill (ISD Dunaferr Ltd)
  - 2006-2010 Strategic investments of Cold Rolling Mill (ISD Dunaferr Ltd)

## Visiting lecturer and professional study

2018	CEEPUS mobility grant (1 month) Polytechnical Engineering College Subotica, Serbia
2017	Tempus scholarship (2 weeks) Griffith University, Gold Coast Campus, Griffith School of Engineering Gold Coast, Australia

## Teaching

Basic knowledge	mathematics
IT and Electrical	electrotechnics, measurement, analog and digital techniques, sensors and actuators, signals and systems, control techniques, industrial process control, PLC, PCs and peripherals, communication systems, computer networks, simulation methods
Mechatronics	mechatronics, electric machines and drives, mechatronics project
Pedagogy	teaching methodology, methodology for practical lessons

## *Responsible for majors and specialization at University of Dunaújváros*

2017-	Major - Teacher of Engineering
2016-	Specialization - mechanical engineer/mechatronics specialization
2009-2015	Major – electrical engineer higher vocational training

## *PhD thesis supervisor:*

2017-	József Katona, Széchenyi István University, Multidisciplinary Doctoral School of Engineering Sciences <a href="https://doktori.hu/index.php?menuid=192&amp;sz_ID=27684&amp;lang=EN">https://doktori.hu/index.php?menuid=192&amp;sz_ID=27684&amp;lang=EN</a>
2017-	Tibor Ujbányi, Széchenyi István University, Multidisciplinary Doctoral School of Engineering Sciences <a href="https://doktori.hu/index.php?menuid=192&amp;lang=HU&amp;sz_ID=27685">https://doktori.hu/index.php?menuid=192&amp;lang=HU&amp;sz_ID=27685</a>
2017-	Krisztián Wizner, Széchenyi István University, Multidisciplinary Doctoral School of Engineering Sciences <a href="https://doktori.hu/index.php?menuid=192&amp;lang=HU&amp;sz_ID=26462">https://doktori.hu/index.php?menuid=192&amp;lang=HU&amp;sz_ID=26462</a>

## Language exams

2000	English, intermediate level
2010	German, basic level

## Honors

2017	Excellent Scientific Student Conference Organizer Award, awarding by the National Scientific Student Council <a href="http://otdt.hu/upload/files/1512996590_kivaloTDKszervezok2013-17.pdf">http://otdt.hu/upload/files/1512996590_kivaloTDKszervezok2013-17.pdf</a> <a href="http://otdt.hu/site/otdt-elnokseg">http://otdt.hu/site/otdt-elnokseg</a>
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## Publications

Full publication list in Hungarian Scientific Publication Database:

<https://vm.mtmt.hu//search/slist.php?lang=0&top10=0&AuthorID=10037113>

## Scientific activities

- 2017- Editor-in-Chief - Journal of Applied Technical and Educational Sciences  
[www.jates.org](http://www.jates.org)
- 2017 National Scientific Student Conference, Engineering Science Section,  
Organizing Committee  
<http://otdk2017.uniduna.hu/>
- 2017 Section organizer - Education based on Cognitive infocommunications, 8th  
IEEE International Conference on Cognitive InfoCommunications, Debrecen,  
2017.09.11-14 (papers indexed by Scopus, WoS and IEEE Xplore)  
<http://www.coginfocom.hu/conference/CogInfoCom17/>
- 2017 Session chair – CogInfoCom based LearnAbility, 8th IEEE International  
Conference on Cognitive InfoCommunications, Debrecen, Hungary,  
2017.09.12 (papers indexed by Scopus, WoS and IEEE Xplore)  
<http://www.coginfocom.hu/conference/CogInfoCom17/>
- 2017 Plenary lecturer – Plenary Opening Session, Human-Machine Communication,  
Hungarian Science Week, Dunaújváros, 2017.11.14  
<http://www.uniduna.hu/hirek/tudomanyoshet2017>
- 2017 Section organizer – Natural Science and Environmental section, Hungarian  
Science Week, Dunaújváros, 2017.11.14  
<http://www.uniduna.hu/hirek/tudomanyoshet2017>
- 2016 Session organizer and chair- Cognitive Aspects of Human-Machine Interface  
Systems, 7th IEEE International Conference on Cognitive InfoCommunications,  
Wroclaw, Poland, 2016.10.16-18 (papers indexed by Scopus, WoS and IEEE  
Xplore)  
<http://www.coginfocom.hu/conference/CogInfoCom16/>
- 2016 Section organizer and chair – Natural Science and Environmental section,  
Hungarian Science Week, Dunaújváros, 2016.11.8

## Reviewer:

- Mechanical Systems and Signal Processing, IF:2,256 2014  
<http://www.journals.elsevier.com/mechanical-systems-and-signal-processing>
- Strojniški vestnik – Journal of Mechanical Engineering, IF:0,821 2014  
<http://www.sv-jme.eu/>
- Open Automation and Control Systems Journal  
<https://benthamopen.com/TOAUTO CJ/>
- 8th IEEE International Conference on Cognitive InfoCommunications  
<http://www.coginfocom.hu/conference/CogInfoCom17/>
- EDU Szakképzés,-és Környezetpedagógiai elektronikus szakfolyóirat  
<http://epa.oszk.hu/02900/02984>
- Dunakavics journal (ISSN 2064-5007)  
<http://dunakavics.uniduna.hu/>

## Memberships

- 2016- Hungarian Educational Research Association (HERA) (2016.02.26)  
<http://hera.org.hu/hera/tagsag/>
- 2016 Institute of Electrical and Electronics Engineers (IEEE) (Member number: 85024272)  
<https://www.ieee.org/>
- 2015- Hungarian Academy of Sciences, VI. Department of Engineering Science, Scientific Committee for Electrotechnical (2015.03.24, id: 10045795)  
[http://mta.hu/koztestuleti\\_tagok?PersonId=10045795](http://mta.hu/koztestuleti_tagok?PersonId=10045795)
- 2015- John von Neumann Computer Society (NJSZT) (2015.02.09, id: 93696)  
<http://njszt.hu/en>
- 2012- Hungarian Electrotechnical Association (MEE) (2012.06.03, id: 108-21240)  
<http://www.mee.hu/english>
- 2012- Scientific Association for Infocommunications (HTE) (2012.06.08, id: 8736)  
<http://www.hte.hu/web/en>