

Johanna Sápi, PhD, habil

and the second second		
	Academic de	egrees
	2023	Habilitation (Computer Science)
	2015	PhD (Computer Science)
A Decembrical	Professional	position
Biomedical systems, control theory, pathophysiological modeling, system identification, cancer treatment, female fertility, female hormonal control	2024 –	Associate professor Obuda University John von Neumann Faculty of Informatics Biomatics and Applied Artificial Intelligence Institute
	2024 –	Director of the Institute Obuda University John von Neumann Faculty of Informatics Biomatics and Applied Artificial Intelligence Institute
	2024 –	Director of Operations Obuda University John von Neumann Faculty of Informatics
	2024 -	Vice Chair Obuda University Doctoral School of Applied Informatics and Applied Mathematics
	2024 -	Head of the research group Obuda University University Research and Innovation Center Physiological Controls Research Center (PhysCon) Female Fertility and Hormone Control Research Group (FFHC)
	2016 – 2024	Assistant professor/researcher Obuda University John von Neumann Faculty of Informatics Institute of Biomatics Physiological Controls Research Center
	2015 – 2016	Assistant lecturer/researcher Obuda University John von Neumann Faculty of Informatics Institute of Biomatics
🔀 Address		Physiological Controls Group
H-1034 Budapest, Bécsi street 96/b. Room 3.28	2013 – 2015	PhD student Obuda University John von Neumann Faculty of Informatics
Phone number		Institute of Applied Informatics Physiological Controls Group
+36301811590		
@ E-mail	2012 – 2013	PhD student Budapest University of Technology and Economics
sapi.johanna@nik.uni-obuda.hu		Faculty of Electrical Engineering and Informatics

	Department of Control Engineering and Information Technology Laboratory of Biomedical Engineering
T Education	
2016	Semmelweis University's Institutional Animal Care and Use Committee
	Experimental animals – animal experiments course level "B" The course gives permission to carry out animal experiments and design projects
2013 – 2015	Obuda University Doctoral School of Applied Informatics and Applied Mathematics (PhD) PhD in Applied Informatics (Summa cum laude) Research topic: <i>Model-based control of cancer diseases</i> Thesis: <i>Controller-managed automated therapy and tumor</i> <i>growth model identification in the case of antiangiogenic</i> <i>therapy for most effective, individualized treatment</i> Supervisor: Levente Kovács PhD, habil
2012 – 2013	Budapest University of Technology and Economics Doctoral Schools at Faculty of Electrical Engineering and Informatics PhD in Electrical Engineering Research topic: <i>Model-based control of cancer diseases</i> Supervisor: Levente Kovács PhD
2010 – 2012	Budapest University of Technology and Economics Faculty of Electrical Engineering and Informatics MSc in Biomedical Engineering (Summa cum laude) Thesis: <i>Optimal control algorithms for antiangiogenic therapy</i> <i>based tumor treatment</i> Supervisors: Levente Kovács PhD, István Harmati PhD, Dániel András Drexler, Prof. Zoltán Sápi MD PhD
2006 – 2010	Semmelweis University Faculty of Medicine BSc in Health care management Thesis: Interactive, personalized health education and therapy support via Internet for patients with metabolic syndrome Supervisor: Zoltán Sára
1998 – 2004	St. Stephens Secondary School, Budapest Class of Natural Sciences High school diploma
🗣 Languages	
Hungarian:	native
Englisn: Russian:	aavancea basic
Y Professional	results

2009

III. place in Students' Scientific Association (TDK) conference Semmelweis University

	Paper: <i>Metabolic Syndrome – the endemic</i> Supervisor: Péter Csépe MD PhD
	Semmelweis University, Faculty of Medicine, Department of Public Health
2017	Dean's award
	Obuda University, John von Neumann Faculty of Informatics

Supervisor activities

- Budapest University of Technology and Economics, Faculty of Electrical Engineering and Informatics, Biomedical Engineering MSc thesis (1)
- Obuda University, John von Neumann Faculty of Informatics, Computer Science and Engineering BSc thesis (5)
- Obuda University, John von Neumann Faculty of Informatics, Computer Science and Engineering MSc thesis (4)
- Obuda University, John von Neumann Faculty of Informatics, Applied Mathematics MSc thesis (1)
- Pázmány Péter Catholic University, Faculty of Information Technology and Bionics, Molecular Bionics Engineering BSc thesis (1)
- Pázmány Péter Catholic University, Faculty of Information Technology and Bionics, Info-Bionics Engineering MSc thesis (1)
- Obuda University, John von Neumann Faculty of Informatics, Scientific Students' Associations (TDK) (3)

🛃 Courses taught

- Biomedical computing practices (BMEVIMIM301), BME-VIK, Biomedical Engineering MSc, in Hungarian
- Control Theory (BMEVIMM158), BME-VIK, Biomedical Engineering MSc, in Hungarian
- Biomedical Engineering (BMEVIIIAV09), BME-VIK, Biomedical Engineering MSc, in Hungarian
- Control Theory I. (NIRIT1SAEC), OE-NIK, Computer Science Engineering BSc, in Hungarian
- Control Theory II. (NIRIT2SAEC), OE-NIK, Computer Science Engineering BSc, in Hungarian
- Biomedical Engineering (NIRBE1SVNC) OE-NIK, Computer Science Engineering BSc, in Hungarian
- Basics of Information Systems (NIRIA1SEND), OE-NIK, Computer Science Engineering BSc, in English
- Control Engineering (NIRCE1SERD), OE, Science Without Borders program (for Brazilian students), in English
- Intelligent Systems (NIRIS1SERD), OE, Science Without Borders program (for Brazilian students), in English
- Control Theory (NIRITOSAED), OE-NIK, Computer Science Engineering BSc, in Hungarian
- Biomedical Engineering (NAIBE1SEND), OE-NIK, Computer Science Engineering BSc, in English
- Systems and control theory (NAIRI1CANM), OE-NIK, Computer Science Engineering MSc, in Hungarian
- Systems and control theory (NAIRI1CENM), OE, Stipendium Hungaricum program, MSc, in English

Curricula development

• Systems and control theory KMOOC E-learning course (in Hungarian, 2015, Dr. habil. Levente Kovács, Dr. Johanna Sápi)

• Control Theory KMOOC E-learning course (in Hungarian, 2016, Dr. Dániel András Drexler, Dr. habil. Levente Kovács, Dr. Johanna Sápi)

God Reviewer activities

- Conference:
 - IFAC (International Federation of Automatic Control)
 - INES (IEEE International Conference on Intelligent Engineering Systems)
 - CINTI (IEEE International Symposium on Computational Intelligence and Informatics)
 - SAMI (IEEE International Symposium on Applied Machine Intelligence and Informatics)
 - SACI (IEEE International Symposium on Applied Computational Intelligence and Informatics)
 - SMC (IEEE International Conference on Systems, Man, and Cybernetics)
 - ICIEA (IEEE Conference on Industrial Electronics and Applications)
 - PID (IFAC Conference on Advances in Proportional-Integral-Derivative Control)
 - CDC (IEEE Conference on Decision and Control)
- Journal:
 - Acta Polytechnica Hungarica
 - \rightarrow reviewer
 - \rightarrow Informatics Track Chair (2017 2018)
 - IEEE Access
- Thesis: Budapest University of Technology and Economics, Faculty of Electrical Engineering and Informatics (MSc); Obuda University, John von Neumann Faculty of Informatics (MSc)
- Students' Scientific Association Conference (OU), National Students' Scientific Association Conference
- New National Excellence Program (ÚNKP) Scholarship for MSc students reviewer

Conference organization

- NOC Co-Chair, Young Author Prize Chair, 14th IFAC Symposium on Advances in Control Education (IFAC ACE 2025)
- Organizing Committee Chair: 30th Jubilee Neumann Colloquium, 2017, Budapest
- Local Organizing Committee member / Track Chair:
 - SMC 2016 Junior Systems Science & Engineering track chair IEEE International Conference on Systems, Man, and Cybernetics, Budapest, Hungary
 - SMC 2016 Local Organizing Committee member IEEE International Conference on Systems, Man, and Cybernetics, Budapest, Hungary
- Technical Program Committee member:
 - SMC 2016 IEEE International Conference on Systems, Man, and Cybernetics, Budapest, Hungary
 - SAMI 2016 IEEE International Symposium on Applied Machine Intelligence and Informatics, Herl'any, Slovakia

Research projects involvements

- ERC StG Grant "*Tamed Cancer*" 679681 (2016-2021), professional coordinator, researcher (Principal Investigator: Prof. Dr. Levente Kovács)
- TÁMOP 4.2.2.D-15/1/KONV-2015-0002 project "Development of smart technologies for supporting high-tech industrial areas" (2015), researcher

 National Development Agency, GOP-2011-1.1.1 program, GOP-1.1.1-11-2012-0055 project, "DIALOGIC – Mathematical model-based decision support system to improve diabetes health management" (2012-2013), researcher

Professional affiliations and contributions

- John von Neumann Computer Society Biomedical Section board member (2016 –), secretary (2024 –)
- IEEE (Institute of Electrical and Electronics Engineers) member (Membership number: 92621920)
- IEEE Student member (2013 2015)
- IEEE member (2015)
- IEEE Systems, Man, and Cybernetics (SMC) Society member (2015)
- IEEE SMC Hungary Section Chapter secretary (2016)
- IEEE Young Professionals member (2015)
- IEEE Women in Engineering member (2015)
- IEEE Engineering in Medicine and Biology Society member (2015)

S Publications

Johanna Sápi's publications in MTMT: https://vm.mtmt.hu//search/slist.php?lang=0&AuthorID=10036432

She was published 49 scientific publications and her cumulative impact factor is 27.21, h-index is 18.