

Decisions of the Council of the Doctoral School of Applied Informatics and Applied Mathematics

Decision No 206

Resolution No. 206/1: The Council of the Doctoral School of Applied Informatics and Applied Mathematics, on the basis of the recommendation of the AIAMDI Admissions Committee, proposes the admission of the following students:

Organized, full-time, state-funded training:

1. Gergely Pósfai (supervisors: Dr. György Eigner, Dr. Andrea De Gaetano; research topic: Modelling and regulation of physiological processes using control engineering methods)
2. Elemér Balázs (supervisors: Dr. Sándor Szénási, Dr. Zoltán Vámosy; research topic: Detection of the characteristics of dysgraphia using methods based on image processing)
3. László Szász (supervisor: Dr. György Eigner; research topic: Research of advanced, multipurpose, and interdisciplinary hardware-in-the-loop systems supporting AI-powered applications)
4. Patrik Dobrovodsky (supervisors: Dr. Eszter Balázsné Kail, Dr. Rita Fleiner; research topic: Development of an automated cybersecurity compliance assessment system for IoT devices)
5. Dávid Holecska (supervisors: Dr. Judith Pálfi, Dr. Ferenc Molnár; research topic: Optimization of the operation of energy communities using energetics and IT)
6. Marinko Rudics Vránics (supervisor: Dr. József Nyers; research topic: Mathematical description and optimization of direct absorption nanofluidic solar collectors with artificial neural networks)

Comment:

The admission of Gergely Pósfai and László Szász is conditional until the presentation of an MSc degree with at least „good” qualification.

Organized, self-financed, part-time training:

1. Tímea Páhi (supervisor: Dr. Anna Vörösne Bánati-Baumann; research topic: Investigation of the applicability of artificial intelligence for the design and development of attack scenarios in cyber practices)
2. Zoltán Aradi (supervisor: Dr. Anna Vörösne Bánati-Baumann; research topic: Applicability of artificial intelligence to increase the efficiency of honeypot systems)
3. Balázs Böröcz (supervisor: Dr. Gábor Péter Molnár; research topic: Analysis of remote sensing data with convolutional neural networks)

Comment:

The admission of Balázs Böröcz is conditional until the presentation of an MSc degree with at least „good” qualification.

Individual preparation:

István Lovas (supervisor: Dr. András Molnár; research topic: Control of multicopter flying platforms in critical situations)

Resolution No. 206/2: Eszter Virágh, doctoral student, submitted her thesis and its supplements to initiate the doctoral degree acquisition process. The Council of the Doctoral School of Applied Informatics and Applied Mathematics proposes the following committee for the workplace discussion and for the final public defense:

Workplace discussion

External reviewer: Prof. Dr. Balázs Benyó (BME)

Internal reviewer: Prof. Dr. József Tar (ÓE-NIK)

Public defense

Chair: Prof. Dr. József Tar (ÓE-NIK)

Secretary: Dr. habil. Adrienn Dineva (ÓE-NIK)

Reviewers:

Prof. Dr. Balázs Benyó (BME)

Prof. Dr. Lőrinc Márton (University of Pannonia)

Members:

Prof. Dr. Gábor Szederkényi (PPCU)

Prof. Dr. Imre Felde (ÓE-NIK)

Nagyné Dr. habil. Éva Hajnal (ÓE-AMK)

Substitutes

Substitute Chair: Prof. Dr. Imre Rudas (ÓE)

Substitute Secretary: Dr. Zoltán Léka (ÓE-NIK)

Substitute Reviewer: Prof. Dr. Attila Magyar (University of Pannonia)

Resolution No. 206/3: The Council of the Doctoral School of Applied Informatics and Applied Mathematics approves the request of doctoral student Sándor Tarsoly for the involvement of a co-supervisor. In addition to Dr. Péter Galambos, Dr. István Artúr Károly will be the co-supervisor, sharing the supervision in a 50-50% ratio.

Resolution No. 206/4: The Council of the Doctoral School of Applied Informatics and Applied Mathematics approves the research topic "Development of an automated cybersecurity compliance assessment system for IoT devices" to be announced under the joint supervision of Dr. habil. Rita Fleiner and Dr. Eszter Balázsné Kail.

Resolution No. 206/5: The Council of the Doctoral School of Applied Informatics and Applied Mathematics approves the research topics "Applicability of artificial intelligence to increase the efficiency of honeypot systems" and "Examination of the applicability of artificial intelligence for the design and development of attack scenarios of cyber practices" to be announced under the supervision of Dr. Anna Vörösné Bánáti-Baumann.

Resolution No. 206/6: The Council of the Doctoral School of Applied Informatics and Applied Mathematics approves the research topic "Analysis of remote sensing data with convolutional neural networks" to be announced under the supervision of Dr. habil. Gábor Péter Molnár.

Resolution No. 206/7: The Council of the Doctoral School of Applied Informatics and Applied Mathematics approves the following three research topics to be announced under the supervision of Prof. Dr. Miklós Kozlovsky:

- "Human biosignal monitoring and analysis during manned space missions"
- "Human movement monitoring and analysis during manned space missions"
- "Human micro movement monitoring and analysis during manned space missions"

Resolution No. 206/8: The Council of the Doctoral School of Applied Informatics and Applied Mathematics proposed a committee for the doctoral degree acquisition process of doctoral student Viktor Jónás in its resolution No. 190. After the decision, the Council became aware that the student formerly published an academic article with one of the proposed reviewers, so the Council deems it expedient to change that reviewer. The Council of the Doctoral School of Applied Informatics and Applied Mathematics appoints Prof. Dr. Zoltán Vámosy as the new internal reviewer.

Resolution No. 206/9: Shreya Anclia, a doctoral student who is transferred from the Doctoral School on Safety and Security Sciences to the Doctoral School of Applied Informatics and Applied Mathematics, submitted her application for credit recognition considering the subjects completed in the first semester. The application is accepted by the Council of the Doctoral School of Applied Informatics and Applied Mathematics.

Resolution No. 206/10: The following 5 doctoral students have submitted their application to transfer to the Doctoral School of Architecture, Design and Technology, which is approved by the Council of the Doctoral School of Applied Informatics and Applied Mathematics:

- Enikő Boros
- Emese Katinka Juhász
- Marcell Nánási
- István Váradi
- István Balázs Vass

Resolution No. 206/11: Márk Bence Szigeti, doctoral student of the Doctoral School of Innovation Management submitted his application to transfer to the Doctoral School of Applied Informatics and Applied Mathematics. Dr. György Eigner has taken on the role of co-supervisor instead of Dr. Péter Galambos. The Council of the Doctoral School of Applied Informatics and Applied Mathematics supports the application.

Resolution No. 206/12: The Council of the Doctoral School of Applied Informatics and Applied Mathematics approved the written and oral end-of-semester reports of the following PhD students for the autumn semester of the 2024/25 academic year:

Enikő Boros	Bence Ligetfalvi	Zoltán Varga
Zsolt Bringye	Péter Mogyorósi	István Balázs Vass
Sándor Burian	Mirtill Boglárka Naghi	Miklós Vincze
Roland Czákó Patrik	Marcell Bálint Nánási	Márk Wendler
Annamária Cserfalvi	Gyula Ádám Nemes	Tamás Zoltán Zakota
Dominik Miklós Csík	Lajos Olcsák	Adelino Joao Ganga Ngunza
Lehel Dénes-Fazakas	Vivien Patak völgyi	Adina Chotbaeva
Márk Benjamin Emódi	Tamás Piricz	Awudu Atinga
Attila Érchegyi	János Pisak-Lukács	Christoph Gritsch
Borbála Gergics	Krisztián Póra	Delphin Kabey Mwincken
Gibárt Gilányi	Róbert Roman	Erick Noboa
Katinka Juhász Emese	Miklós Sipos	Farida Asadova
Ármin Károly	Patrik Süli	Felisberto David W. Chivela
Gerlinda Boglárka Kis	István Szűcs	Genet Mekonnen Assefa
Lilla Kisbenedek	Sándor Tarsoly	Hana Alabdulkarim
András Kovács	László Tóth	Iman El Nouri
Zsolt Krutilla	Azár Attila Vámos	Massimo Stefanoni
Marianna Kucarov	Balázs Váradi	Meriem Fgaier
Dániel Küttel	Attila Varga	Suryakant Tyagi
Anna Laczi Szandra	Bence Varga	Zhyar R. Kwekha Rostam

Róbert Szabó failed to appear at the end-of-semester report, he did not submit any written documentation on his work and he did not obtain the minimum number of credits required to continue his studies, so his student status will get cancelled.

Resolution No. 206/13: The Council of the Doctoral School of Applied Informatics and Applied Mathematics issues the pre-degree certificate of acquiring all the credits necessary for the doctoral degree (“absolatory”) to the following students:

Name	Study credits	Teaching credits	End-of-semester report credits	Research project credits	Publication credits	Overall credits
Lehel Dénes-Fazakas	56	35	92	40*	116**	339
Marianna Kucarov	60	15	92	40*	116**	323
Attila Varga	32	0	84	30	116**	262
Ernő Rigó	32	60	92	40*	79	303

*The student has collected more credits from project work during their training, but according to the regulations, this is the maximum eligible value.

**The student has accumulated much more publication credits during their training, but according to the regulations, this is the maximum eligible value.

Resolution No. 206/14: The Council of the Doctoral School of Applied Informatics and Applied Mathematics approves the amendment of the Operational Rules of the Doctoral School and the monitor report of the Doctoral School.

Resolution No. 206/15: The Council of the Doctoral School of Applied Informatics and Applied Mathematics approves the following strategic plans of the Doctoral School:

- Strategy of the Doctoral School of Applied Informatics and Applied Mathematics 2025 - 2030
- Attrition reduction strategy of the Doctoral School of Applied Informatics and Applied Mathematics
- Soft skill strategy of the Doctoral School of Applied Informatics and Applied Mathematics
- Strategy of the Doctoral School of Applied Informatics and Applied Mathematics aimed at supporting the research of part-time students
- Curriculum of the Doctoral School of Applied Informatics and Applied Mathematics and the scientometric definition of publication requirements during each semester of the organized doctoral training
- Strategy of the Doctoral School of Applied Informatics and Applied Mathematics for the optimal distribution of supervisory work

Budapest, 20 February 2025

Dr. Simon Gyula
professor
Chair of the Council of the Doctoral School