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

Decision No 221.

Resolution No. 221/1: The Council of the Doctoral School of Applied Informatics and Applied Mathematics approves the following subjects and examination committee for the complex examination of **Milán Balázs**.
Supervisor: Prof. Dr. György Eigner
Research topic: High-Availability and Artificial Intelligence Ready Parallel-Distributed Research Framework: Methodology, Implementation, and Inter-disciplinary Integration Based on Academic Needs
1. subject: Modeling and Design Patterns of Cloud Services (examiner: Prof. Dr. Róbert Lovas)
2. subject: Deep machine learning techniques (examiner: Dr. habil. Gábor Kertész)
Chair: Prof. Dr. Róbert Fullér

Resolution No. 221/2: The Council of the Doctoral School of Applied Informatics and Applied Mathematics approves the following subjects and examination committee for the complex examination of **Sándor Burian**.
Supervisor: Prof. Dr. Miklós Kozlovszky
Research topic: Modeling and Analysis of Animal and Plant Tissue Structures
1. subject: Processing from segmentation to object-oriented classification (examiner: Dr. Malgorzata Verőné Wojtaszek)
2. subject: Control of Collaborative Robots (examiner: Prof. Dr. Péter Galambos)
Chair: Prof. Dr. Róbert Fullér

Resolution No. 221/3: The Council of the Doctoral School of Applied Informatics and Applied Mathematics approves the following subjects and examination committee for the complex examination of **Gerlinda Boglárka Kis.**
Supervisors: Prof. Dr. Levente Kovács, Prof. Dr. László Szilágyi
Research topic: Development and Application of Deep Learning–Based Decision Support Algorithms in Medical Diagnostics
1. subject: Application of Biostatistical and Control Technology-based Methods in Biopathological Modeling (examiner: Prof. Tamás Dr. Ferenci)
2. subject: Biomedical applications of regression models (examiner: Prof. Tamás Dr. Ferenci)
Chair: Prof. Dr. Róbert Fullér
Committee Member: Prof. Dr. József Tar

Resolution No. 221/4: The Council of the Doctoral School of Applied Informatics and Applied Mathematics approves the following subjects and examination committee for the complex examination of **Lilla Kisbenedek**.
Supervisor: Dr. habil. Dániel András Drexler
Research topic: Parameter Estimation of Physiological Models Using Machine Learning Algorithms
1. subject: Application of Biostatistical and Control Technology-based Methods in Biopathological Modeling (examiner: Prof. Tamás Dr. Ferenci)
2. subject: Biomedical applications of regression models (examiner: Prof. Tamás Dr. Ferenci)
Chair: Prof. Dr. Róbert Fullér

Resolution No. 221/5: The Council of the Doctoral School of Applied Informatics and Applied Mathematics approves the following subjects and examination committee for the complex examination of **Vivien Roxána Patakvölgyi.**
Supervisors: Prof. Dr. György Eigner, Dr. Máté Siket
Research topic: Processing of Biological and Physiological Data Using Artificial Intelligence Methods
1. subject: Application of Biostatistical and Control Technology-based Methods in Biopathological Modeling (examiner: Prof. Tamás Dr. Ferenci)
2. subject: Biomedical applications of regression models (examiner: Prof. Tamás Dr. Ferenci)
Chair: Prof. Dr. Róbert Fullér

Resolution No. 221/6: The Council of the Doctoral School of Applied Informatics and Applied Mathematics approves the following subjects and examination committee for the complex examination of **Tamás Piricz**.
Supervisor: Prof. Dr. Péter Galambos
Research topic: New Opportunities of Machine Learning Methods in Robotics for Adaptability and Semantic Reasoning
1. subject: Basics in Optimal Control (Prof. Dr. József Tar)
2. subject: Deep machine learning techniques (examiner: Dr. habil. Gábor Kertész)
Chair: Prof. Dr. Róbert Fullér

Resolution No. 221/7: The Council of the Doctoral School of Applied Informatics and Applied Mathematics approves the following subjects and examination committee for the complex examination of **Patrik Péter Süli.**
Supervisor: Prof. Dr. György Eigner
Research topic: Bridging Advanced AI, Cyber-security, and High-Performance Solutions in Distributed Computing
1. subject: Modeling and Design Patterns of Cloud Services (examiner: Prof. Dr. Róbert Lovas)
2. subject: Deep machine learning techniques (examiner: Dr. habil. Gábor Kertész)
Chair: Prof. Dr. Róbert Fullér

1034 Budapest,
Bécsi út 96/b.
+36 (1) 666-5543
+36 (1) 666-5541
simon.gyula@amk.uni-obuda.hu
phd.uni-obuda.hu

Resolution No. 221/8: The Council of the Doctoral School of Applied Informatics and Applied Mathematics approves the following subjects and examination committee for the complex examination of **Mark Bence Szigeti**.
Supervisors: Prof. Dr. Levente Kovács, Prof. Dr. György Eigner
Research topic: Execution of Artificial Intelligence–Based Evaluation and Processing Engines
1. subject: GPU Programming (examiner: Prof. Dr. Sándor Szénási)
2. subject: Deep machine learning techniques (examiner: Dr. habil. Gábor Kertész)
Chair: Prof. Dr. Róbert Fullér

Resolution No. 221/9: The Council of the Doctoral School of Applied Informatics and Applied Mathematics approves the following subjects and examination committee for the complex examination of **Sándor Tarsoly.**
Supervisors: Prof. Dr. Péter Galambos, Dr. István Artúr Károly
Research topic: Novel Machine Intelligence–Based Tools for Precision Mushroom Cultivation
1. subject: Modeling and Design Patterns of Cloud Services (examiner: Prof. Dr. Róbert Lovas)
2. subject: Modern medical robotics (examiner: Prof. Dr. Tamás Haidegger)
Chair: Prof. Dr. Róbert Fullér

Resolution No. 221/10: The Council of the Doctoral School of Applied Informatics and Applied Mathematics approves the following subjects and examination committee for the complex examination of **Patrik Roland Czakó.**
Supervisors: Prof. Dr. Sándor Szénási, Dr. habil. Gábor Kertész
Research topic: Development of Efficiency-Enhancing Methods Based on Model Compression for Deep Neural Networks
1. subject: Deep machine learning techniques (examiner: Prof. Dr. Zoltán Vámossy)
2. subject: A model-driven software development (examiner: Dr. habil József Tick)
Chair: Prof. Dr. Róbert Fullér

Resolution No. 221/11: The Council of the Doctoral School of Applied Informatics and Applied Mathematics approves the following subjects and examination committee for the complex examination of **Christoph Gritsch.**
Supervisors: Prof. Dr. Andrea Tick, Dr. Philipp Rosenberger
Research topic: Optimized Processing Approach for the Integration of Unstructured Text in NLP Networks
1. subject: Deep machine learning techniques (examiner: Dr. habil. Gábor Kertész)
2. subject: Engineering Computational Methods 1 (examiner: Prof. Dr. Aurél Galántai)
Chair: Prof. Dr. Róbert Fullér

1034 Budapest,
Bécsi út 96/b.
+36 (1) 666-5543
+36 (1) 666-5541
simon.gyula@amk.uni-obuda.hu
phd.uni-obuda.hu

Resolution No. 221/12: The Council of the Doctoral School of Applied Informatics and Applied Mathematics approves the following subjects and examination committee for the complex examination of **Azár Attila Vámos.**
Supervisors: Dr. habil. Gábor Kertész, Prof. Dr. Attila Kővári
Research topic: Service Life Testing of Industrial Automation Systems
1. subject: A model-driven software development (examiner: Dr. habil József Tick)
2. subject: Advanced Methods for Estimating Efficiency and Productivity (examiner: Prof. Dr. József Fogarasi)
Chair: Prof. Dr. Róbert Fullér

Resolution No. 221/13: The Council of the Doctoral School of Applied Informatics and Applied Mathematics approves the following subjects and examination committee for the complex examination of **Shreya Anchlia.**
Supervisor: Dr. Gábor Gyarmati
Research topic: The Business Case for Green IT: Integrating Sustainability into IT Infrastructure
1. subject: Deep machine learning techniques (examiner: Dr. habil. Gábor Kertész)
2. subject: Developments and application of Nature-Inspired algorithms (examiner: Prof. Dr. Imre Felde)
Chair: Prof. Dr. Róbert Fullér

Resolution No. 221/14: The Council of the Doctoral School of Applied Informatics and Applied Mathematics approves the following subjects and examination committee for the complex examination of **Adina Chotbaeva.**
Supervisors: Prof. Dr. Levente Kovács, Prof. Dr. György Eigner
Research topic: Empowering Healthcare through Personalized A.I Predicting Outcomes and Optimizing Care
1. subject: Biomedical applications of regression models (examiner: Prof. Tamás Dr. Ferenci)
2. subject: Deep machine learning techniques (examiner: Dr. habil. Gábor Kertész)
Chair: Prof. Dr. Róbert Fullér

Resolution No. 221/15: The Council of the Doctoral School of Applied Informatics and Applied Mathematics approves the following subjects and examination committee for the complex examination of **Adelino Joao Ganga Ngunza.**
Supervisor: Prof. Dr. Ervin Rácz
Research topic: Photovoltaic cells, solar cells and systems
1. subject: Digital Signal Processing and its Applications (Prof. Dr. Gyula Simon)
2. subject: Basics in Optimal Control (Prof. Dr. József Tar)
Chair: Prof. Dr. Róbert Fullér

Resolution No. 221/16: The Council of the Doctoral School of Applied Informatics and Applied Mathematics approves the following subjects and examination committee for the complex examination of **Mohammad Saber Azimi.**
Supervisor: Prof. Dr. Habib Zaidi
Research topic: Digital Twins for Quantitative Imaging and Theranostics
1. subject: Deep machine learning techniques (examiner: Dr. habil. Gábor Kertész)
2. subject: Medical Image Processing Using Traditional and Deep Learning Methods (examiner: Prof. Dr. László Szilágyi)
Chair: Prof. Dr. Róbert Fullér

Resolution No. 221/17: The Council of the Doctoral School of Applied Informatics and Applied Mathematics approves the following subjects and examination committee for the complex examination of **Dávid János Fehér.**
Supervisors: Prof. Dr. Kornélia Lazányi, Dr. Anna Vörösné Bánáti-Baumann
Research topic: LLM-Based, Documentation-Centric Security Compliance Assessment Models and Architectures in Enterprise Public Cloud Environments
1. subject: Large Language Models and Agentic AI Systems (examiner: Prof. Dr. György Eigner)
2. subject: Modeling and Design Patterns of Cloud Services (examiner: Prof. Dr. Róbert Lovas)
Chair: Prof. Dr. Róbert Fullér

Resolution No. 221/18: The Council of the Doctoral School of Applied Informatics and Applied Mathematics approves the following subjects and examination committee for the complex examination of **Salmani Ghanbari Saba.**
Supervisor: Dr. Amir Mosavi
Research topic: Deep Learning–Based Power Modelling for Wave Energy Conversion Using Ocean Wave Simulations
1. subject: Deep machine learning techniques (examiner: Dr. habil. Gábor Kertész)
2. subject: Modeling and optimization of energetic systems (examiner: Prof. Dr. Péter Kádár)
Chair: Prof. Dr. Róbert Fullér

Resolution No. 221/19: The Council of the Doctoral School of Applied Informatics and Applied Mathematics issues the pre-degree certificate (absolutorium) to Mohammad Amin Rezaei, PhD student in individual preparation, confirming the completion of all required credits for the doctoral degree, as detailed below:

Name	Comprehensive (Complex) Exam	Publication	Total
Mohammad Amin Rezaei	120	162	282

Resolution No. 221/20: PhD student Mohammad Amin Rezaei has submitted all required documents to initiate the doctoral degree acquisition procedure. 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: Dr. Péter Tamás Szemes, Associate Professor (University of Debrecen)
Internal Reviewer: Dr. habil. Gábor Kertész, Associate Professor (Obuda University)

Public defense

Chair: Prof. Dr. József Tar, Professor (Obuda University)
Secretary: Dr. Eszter Balázsné Kail, Assistant Professor (Obuda University)
Reviewers:
Dr. Péter Tamás Szemes, Associate Professor (University of Debrecen)
Dr. habil. Rita Fleiner, Associate Professor (Obuda University)
Members:
Prof. Dr. László Horváth, Professor Emeritus (Obuda University)
Prof. Dr. Annamária Dr. Várkonyiné Kóczy, Professor (John von Neumann University)

Substitute Chair: Prof. Dr. Péter Tibor Nagy, Professor Emeritus (Obuda University)
Substitute Secretary: Dr. Anna Vörösné Bánáti-Baumann, Assistant Professor (Obuda University)
Substitute Member: Dr. Taassori Mehdi, Assistant Professor (Obuda University)

Resolution No. 221/21: PhD student Ernő Rigó has submitted all required documents to initiate the doctoral degree acquisition procedure. 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: Dr. habil. Attila Kertész (University of Szeged)
Internal Reviewer: Dr. Ferenc Leitold, Assistant Professor (Obuda University)

Public defense

Chair: Prof. Dr. Miklós Kozlovszky, Professor (Obuda University)
Secretary: Prof. Dr. Tamás Ferenci, Professor (Obuda University)
Reviewers:
Dr. habil. Attila Kertész (University of Szeged)
Dr. György Kálmán, Assistant Professor (Obuda University)
Members:
Dr. József Kovács (HUN-REN)
Dr. Csaba Sidló (HUN-REN)

Resolution No. 221/22: The Council of the Doctoral School of Applied Informatics and Applied Mathematics approves the research topic titled 'Application of Stochastic Approximation Methods in Machine Learning', to be announced in both Hungarian and English, under the supervision of Dr. Béla András Frigyik.

Resolution No. 221/23: The Council of the Doctoral School of Applied Informatics and Applied Mathematics approves the research topic titled 'Novel Biostatistical Applications of Data from Trauma Registries', to be announced under the supervision of Prof. Dr. Tamás Ferenci.

Budapest, 17 April 2026

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

1034 Budapest,
Bécsi út 96/b.
+36 (1) 666-5543
+36 (1) 666-5541
simon.gyula@amk.uni-obuda.hu
phd.uni-obuda.hu