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

Decision No. 215

Resolution No. 215/1: The Council of the Doctoral School of Applied Informatics and Applied Mathematics approves the following comprehensive ("complex") examination subjects and the examination committee for **Ármin Károly**, as detailed below:
Supervisor: Prof. Dr. Péter Galambos
Research topic: Handling Spatial Relationships in Automated Industrial Systems Using New Tools for Calibration, Navigation, and Process Tracking
1. subject: Fuzzy-based Decision Making (examiner: Prof. Dr. Márta Takács)
2. subject: Near optimal solution of the inverse kinematic task of redundant, non-special robot arms using differential approach (examiner: Prof. Dr. József Tar)
Chair: Prof. Dr. Róbert Fullér

Resolution No. 215/2: The Council of the Doctoral School of Applied Informatics and Applied Mathematics approves the following comprehensive ("complex") examination subjects and the examination committee for **Bence Ligetfalvi**, as detailed below:
Supervisors: Dr. habil. Róbert Lovas, Dr. József Kovács
Research topic: Next-generation cloud-based research platforms for open science
1. subject: Medical image processing with a diagnostic aim on parallel and distributed systems (examiner: Prof. Dr. Miklós Kozlovszky)
2. subject: Deep machine learning techniques (examiner: Dr. habil. Gábor Kertész)
Chair: Prof. Dr. Róbert Fullér

Resolution No. 215/3: The Council of the Doctoral School of Applied Informatics and Applied Mathematics approves the following comprehensive ("complex") examination subjects and the examination committee for **Zoltán Mikovity**, as detailed below:
Supervisors: Dr. Péter Odry, Dr. Zoltán Vizvári
Research topic: New Mathematical Methods for Acoustic Impedance Modeling
1. subject: Design of Measurements and Evaluation of Results (examiner: Prof. Dr. Ervin Rácz)
2. subject: Engineering Computational Methods 1. (examiner: Prof. Dr. Aurél Galántai)
Chair: Prof. Dr. Róbert Fullér

Resolution No. 215/4: The Council of the Doctoral School of Applied Informatics and Applied Mathematics approves the following comprehensive ("complex") examination subjects and the examination committee for **József János Palatka**, as detailed below:
Supervisors: Prof. Dr. Levente Kovács, Prof. Dr. László Szilágyi
Research topic: Development of a Predictive and Diagnostic System for Drug-Induced Interstitial Lung Disease

1. subject: Measurement and valuation of health gains (examiner: Prof. Dr. Márta Péntek)
2. subject: Biomedical experiment design and analysis (examiner: Prof. Dr. Tamás Ferenci)
Chair: Prof. Dr. Róbert Fullér

Resolution No. 215/5: The Council of the Doctoral School of Applied Informatics and Applied Mathematics approves the following comprehensive ("complex") examination subjects and the examination committee for **Krisztián Póra**, as detailed below:
Supervisors: Dr. habil. Róbert Lovas, Dr. Attila Csaba Marosi
Research topic: Data Streams of Autonomous Systems on Edge and Cloud Computing Platforms
1. subject: Medical image processing with a diagnostic aim on parallel and distributed systems (examiner: Prof. Dr. Miklós Kozlovszky)
2. subject: Deep machine learning techniques (examiner: Dr. habil. Gábor Kertész)
Chair: Prof. Dr. Róbert Fullér

Resolution No. 215/6: The Council of the Doctoral School of Applied Informatics and Applied Mathematics approves the following comprehensive ("complex") examination subjects and the examination committee for **Róbert Roman**, as detailed below:
Supervisors: Prof. Dr. Levente Kovács, Prof. Dr. László Szilágyi
Research topic: Development and Application of Deep Learning Algorithms for Diagnostic and Therapeutic Analysis of Medical Imaging Data
1. subject: Design of Measurements and Evaluation of Results (examiner: Prof. Dr. Ervin Rácz)
2. subject: Development and application of Nature-Inspired algorithms (examiner: Prof. Dr. Imre Felde)
Chair: Prof. Dr. Róbert Fullér

Resolution No. 215/7: The Council of the Doctoral School of Applied Informatics and Applied Mathematics approves the following comprehensive ("complex") examination subjects and the examination committee for **István Szűcs**, as detailed below:
Supervisor: Dr. József Kopják
Research topic: Application of Distributed Wireless Control and Sensor Networks in Energy Management
1. subject: Fuzzy-based Decision Making (examiner: Prof. Dr. Márta Takács)
2. subject: Statistical Hypothesis Testing (examiner: Prof. Dr. Márta Takács)
Chair: Prof. Dr. Róbert Fullér
Committee Member: Prof. Dr. József Tar

Resolution No. 215/8: PhD student László Szász requested the appointment of Dr. Máté Siket as co-supervisor, whose expertise would greatly assist with his research. The Council of the Doctoral School of Applied Informatics and Applied Mathematics supports the request.

Resolution No. 215/9: PhD student Shreya Anchlia submitted a request to the Doctoral School to change her doctoral research topic, as the newly proposed topic better aligns with her recent research activities. She also requested that Dr. Gábor Gyarmati be appointed as her sole supervisor.
The title of the new research topic: "*The Business Case for Green IT: Integrating Sustainability into IT Infrastructure*."
Dr. Amir Mosavi and Dr. Gábor Gyarmati agreed to the request.
The Council of the Doctoral School of Applied Informatics and Applied Mathematics hereby approves the request.

Resolution No. 215/10: PhD student István Halász submitted a request to the Doctoral School for the recognition of doctoral courses previously completed at ELTE, in order to fulfill the requirement for the prescribed soft skills course. The Council of the Doctoral School of Applied Informatics and Applied Mathematics accepts the submitted certificates and grants him 10 credits.

Resolution No. 215/11: The Council of the Doctoral School of Applied Informatics and Applied Mathematics admits Prof. Dr. János Lichtenberger as an instructor of the Doctoral School.

Resolution No. 215/12: In connection with the doctoral degree acquisition process of PhD student Róbert Pethes, the Council of the Doctoral School of Applied Informatics and Applied Mathematics appoints **Dr. Zoltán Kátai**, Associate Professor at Sapientia Hungarian University of Transylvania, as external reviewer for the public defense**.**

Resolution No. 215/13: The Council of the Doctoral School of Applied Informatics and Applied Mathematics proposes the initiation of the habilitation procedure to the MTTDHT (Doctoral and Habilitation Council for Engineering and Natural Sciences) for Dr. Dániel Drexler and proposes the following committee:

Expert Evaluation Committee (includes the Habilitation Examination Committee):

EEC (and HEC) Chair: Prof. Dr. László Horváth, Professor Emeritus (Obuda University)
HEC External Member: Prof. Dr. Gábor Szederkényi, Full Professor (Pázmány Péter Catholic University)
HEC Internal Member: Dr. habil. Zrubka Zsombor, Associate Professor (Obuda University)
EEC Secretary: Dr. habil. Gábor Kertész, Associate Professor (Obuda University)
EEC Internal Member: Prof. Dr. László Gulácsi, Full Professor (Obuda University)
EEC External Member: Dr. Dávid Csercsik, Associate Professor (Pázmány Péter Catholic University)

Budapest, 24 November 2025

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