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

Decision No 199

Decision 199.1: The Council of the Doctoral School of Applied Informatics and Applied Mathematics recommends the acceptance of Dr. Attila Kővári's research topic "Cognitive Load Analysis in Human-Computer Interaction" to the MTTDHT.[1]

Decision 199.2: The Council of the Doctoral School of Applied Informatics and Applied Mathematics recommends to the MTTDHT the acceptance of Dr. Attila Kővári's research topic

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[1]**DOCTOR AND HABILITATION REGULATIONS OF THE UNIVERSITY OF ÓBUDA, Budapest, 2023 (Version 11, in force from 19 September 2023, consolidated with the amendments)**

Lecturers, topic writers and supervisors of the doctoral school

12. §

(1) Lecturers of the Doctoral School shall be lecturers and researchers with academic degrees who, on the recommendation of the Head of the Doctoral School, are deemed suitable by the Council of the Doctoral School (hereinafter referred to as DIT) to perform teaching, research and topic management tasks within the framework of the Doctoral School (Article 4(2) of Act No. 387/2012 Coll.).

(2) A doctoral topic is a research area that is suitable for the doctoral student to master the application of scientific methods, to obtain valuable scientific results in the process of its development, and to provide evidence of this in the form of scientific publications, scientific lectures and a doctoral thesis. The doctoral thesis is approved by the Council of the Doctoral School (Article 13(1) of Decree No 387/2012 Coll.)

(3) A doctoral thesis shall be published by a lecturer or researcher with a scientific degree whose thesis has been approved by the Council of the Doctoral School (Article 13 (4), § 387/2012 Coll.)

(4) The supervisor of a doctoral topic shall be a lecturer or researcher with an academic degree whose topic announcement has been approved by the doctoral school council and who, on this basis, responsibly directs and assists the studies and research work of the doctoral student working on the topic and the preparation of the doctoral student for the award of a doctoral degree (Article 13 (5) of the Act No. 387/2012 Coll.).

III. RULES FOR DOCTORAL TRAINING AND THE AWARD OF DOCTORATES

Organisational framework for doctoral training and doctoral studies

The University Doctoral and Habilitation Council

6. §

(1) Pursuant to § 9 (2) and § 22 of Act No. 387/2012 Coll:

d) may, pursuant to Section 16 (5) of the Nftv., establish a doctoral council for each discipline

proposal "Cognitive and Emotional Analysis in Virtual Learning Environments".

Decision 199.3: The Council of the Doctoral School of Applied Informatics and Applied Mathematics recommends the acceptance of Dr. Attila Kővári's research topic "AI-Driven Predictive Maintenance in Cyber-Physical Systems" to the MTTDHT.

Decision 199.4: The Council of the Doctoral School of Applied Informatics and Applied Mathematics recommends to the MTTDHT the acceptance of the research topic proposal of Dr. Attila Kővári "Advanced Theoretical Models in Information Security for Cyber-Physical Systems".

Decision 199.5: The Council of the Doctoral School of Applied Informatics and Applied Mathematics recommends to the MTTDHT the acceptance of the research topic proposal of Dr. Attila Kővári "Simulation-Based Optimization of Industrial Processes Using Digital Twins".

Decision 199.6: The Council of the Doctoral School of Applied Informatics and Applied Mathematics recommends the MTTDHT to accept the research topic proposal of Dr. Attila Kővári "Optimization of Energy Management in Smart Grids Using AI and Machine Learning".

Decision 199.7: The Council of the Doctoral School of Applied Informatics and Applied Mathematics recommends to the MTTDHT for approval the research topic proposal of Dr. Attila Kővári "Real-Time Monitoring and Control of Smart Grid Systems Using IoT".

(hereinafter jointly referred to as the "discipline doctoral council"), in accordance with the provisions on composition and personnel conditions set out in paragraph (1) (Section 9 (2) (d) of Act No. 87/2012 Coll;)

f) appoint the members of the doctoral admission committee, the members of the evaluation committee and the official evaluators, establish the complex examination committee, and ***approve the persons of the doctoral topic leaders and the lecturers of the doctoral school,*** as provided for in the doctoral regulations, on the proposal of the doctoral schools, ***which powers may be delegated to the Disciplinary Doctoral Council (Article 9(2)(f) of*** *the* ***Decree No. 87/2012 Coll;)***

Council for Doctoral and Postdoctoral Studies in Science and Natural Sciences

6/A. §

(**DOCTOR AND HABILITATION**1) The Senate of the University shall, on the basis of the opinion of the President of the EDHT and the doctoral schools concerned, establish a Doctoral and Postdoctoral Council for Science and Technology (hereinafter referred to as MTTDHT) for the doctoral schools in the fields of engineering and natural sciences.

(3) The MTTDHT shall have the powers specified in Article 6(1)(e), **(f)**, (h), (l) and (m) of these Regulations, as delegated by the EDHT, except for the determination of language requirements, the award, naturalisation and rev**DOCTOR AND HABILITATION**
(b) has **5 articles published** in the ODT database in the **last 5 years and 5 additional articles in the relevant discipline which meet the publication criteria set out in Part D5/C, paragraphs 9 to 10;**

c) undertake to update the list in point b) on a regular basis and on a yearly basis.

(8) The conditions in paragraph (7)(b) and (c) will be regularly monitored by the DI.

The topic descriptions are attached to the proposed decision. The suitability of the topic writer is supported by the following material[2]:

- Kővári Attila - ODT Személyi adatlap

Resolution 199.8: The Council of the Doctoral School of Applied Informatics and Applied Mathematics proposes to the MTTDHT to accept the thesis announcement of Anna Vörösné Dr. Bánáti-Baumann entitled "Attack Graph and "Threat Intelligence" in Cyber Defence".

The suitability of the instructor is supported by the following document (she also fulfils the criteria for the subject leader):

- Vörösné Bánáti-Baumann Anna - ODT Személyi adatlap.pdf

Decision 199.9: The Council of the Doctoral School of Applied Informatics and Applied Mathematics recommends to the MTTDHT for approval the announcement of the course "Research Practice" by John Anthony Gall and Viktória Sugár.

The suitability of the lecturers is supported by the following documents:

- Gall Anthony - ODT Személyi adatlap.pdf
- Sugár Viktória - ODT Személyi adatlap.pdf

Decision 199.10: The Council of the Doctoral School of Applied Informatics and Applied Mathematics proposes to the MTTDHT to accept the announcement of the course "Research Methodology Fundamentals" by Zsuzsanna Fáczányi and Erika Janurikné dr. Soltész as a participating lecturer.

The suitability of the trainers is supported by the following documents:

- Fáczányi Zsuzsanna - ODT Személyi adatlap.pdf
- Janurikné Soltész Erika Andrea védése.pdf

It should be noted that, as electives, they are not compulsory to be included in the AIAMDI rigid 20 hours, 8 credits system. As soon as the "Doctoral School of Architecture, Design and Technology" formally obtains its operating licence from the MAB, these subjects will be removed from the AIAMDI courses anyway. Their admission is temporarily necessary because, in the 2024 admission reserve, only AIAMDI could be formally admitted to allow interested students to start their doctoral studies in September 2024, if they are admitted. They will later be transferred to the "Doctoral School of Architecture, Design and Technology".

[2]For subject authors who are not yet registered in AIAMDI as instructors, the requirements of the Regulations "b) have **5 articles published in the** ODT database in **the last 5 years and 5 additional articles in the relevant discipline that meet the publication criteria set out in paragraphs 9 to 10 of Part D5/C**" can be replaced by the sub-check of the data in the MTMT2 database to verify that the publication criteria are met.

Annexes:

Témakiírások_Kővári.pdf
Támadási Gráfok elemzése.pdf
Kutatasi gyakorlatok_FZS.pdf
Kutatasmodszertan alapjai_FZS.pdf

Budapest, 22 September 2024

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