



ADMISSION TO DOCTORAL STUDIES

Session September 2024

Field of doctoral studies: Computers and Information Technology

Doctoral supervisor: Prof. Dr. Răzvan Andonie

TOPICS FOR THE ADMISSION TO DOCTORAL STUDIES

TOPIC 1: Visualizing Large Language Models (LLMs)
Contents: Visual Knowledge Discovery methods applied to LLMs for generating explainable models.
Recommended bibliography: Braşoveanu, Adrian, Răzvan Andonie. <i>Visualizing transformers for NLP: a brief survey</i> , 24th International Conference Information Visualisation (IV), IEEE, 2020.
Prerequisites: <i>Machine Learning and Deep Learning basics</i>
<input checked="" type="checkbox"/> Scientific Doctorate (full-time only)
<input type="checkbox"/> Professional Doctorate – in the fields of Music and Science of sport and physical education (full-time or part-time)
<input checked="" type="checkbox"/> without tuition fee (state budget funded)
<input type="checkbox"/> with tuition fee or with funding from other sources than the state budget

TOPIC 2: Green Artificial Intelligence
Contents: Developing sustainable deep learning models with small carbon print
Recommended bibliography: Schwartz, Roy, et al. <i>Green AI</i> , CORR abs/1907.10597, arXiv preprint:1907.10597 (2019).
Prerequisites: <i>Machine Learning and Deep Learning basics</i>
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Doctoral supervisor,

Coordinator of the field of doctoral studies,

Prof. Dr. Răzvan Andonie

Prof. Dr. eng. Sorin-Aurel Moraru

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Signature