ADMISSION TO DOCTORAL STUDIES   Session September 2024

Field of doctoral studies: Computer Science
Doctoral supervisor: Prof dr Sabin Tabirca

TOPICS FOR THE ADMISSION TO DOCTORAL STUDIES

TOPIC 1: GPU Computing for Bioinformatics
Contents / Main aspects to be considered   1. GPU Programming with Cuda   2. Fundamental Algorithms for Strings   3. Algorithms for Genome Sequencing
Recommended bibliography: • **J. Chen, Profesional Cuda C Programming, Wrox Press Ltd, UK, 2014.**   • **T.Cormen et al., Introduction to Algorithms, MPI, 2022.**   • **F.Campau et al., Bioinformatics Algorithms; An Active Learning Approach, ALA Press, 2015.**
Prerequisites / Remarks:
☐ **Scientific Doctorate (full-time only)**   ☐ **Professional Doctorate – in the fields of Music and Science of sport and physical education (full-time or part-time)**
☐ **without tuition fee (state budget funded)**   ☐ **with tuition fee or with funding from other sources than the state budget**

Doctoral supervisor,   Coordinator of the field of doctoral studies,

Prof. Dr. Sabin Tabirca   Prof. Dr. Sabin Tabirca

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