Area of study:
09.04.03 Applied Informatics
Program
Data and Applications Integration Technology

Degree: master
Program length and study mode: 2020-2021, intramural
Language: Russian
Credits: 120
Start date: 2020
Location: Institute for Advanced Technologies and Piezotechnics (10 Milchakova str., Rostov-on-Don)

Entry requirements:
- knowledge of numerical and optimization methods, object-oriented programming paradigm, web-technologies basics: Python, HTML5, CSS.
- Idea of the open systems interconnection (OSI) and MVC, PRG main development templates.

Program overview:
Program structure:
Unit 1. Courses.
Unit 2. Practical training.
Unit 3. State final certification.

Typical units of study may include:
Foreign language in the professional sphere, Computer vision technology, Machine learning technologies, Data integration technologies, Multimedia modeling, Big data processing, Database models, Programming in 1C: 8, Concept of scientific and project activity.

Research areas:
— in the field of artificial intelligence technologies, including machine learning, computer vision, neural networks;
— in the field of data mining and integration, including high-performance information retrieval and processing technologies;
— in the field of high-performance computing, based on GPGPU technology.

Careers:
in the field of artificial intelligence, in areas related to corporate information systems technologies (Jakarta EE), data integration technologies (DI - Data integration), including ETL, Web-service, BPMS, etc., data mining technologies (BI-Business intelligence), contextual search technologies in SOLR, Elasticsearch information storages.

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