

Нейронные сети и нейронные компьютеры

Московский физико-технический институт (национальный исследовательский университет)

Присваивается степень или квалификация: **Диплом магистра по направлению 03.04.01 «Прикладные математика и физика»**

Язык обучения: **английский**

Форма обучения: **Очная**

Продолжительность: **2 года**

Возможность бесплатного обучения: **есть**

Стоимость: **400 000 руб. в год**

Страница программы на сайте вуза: <https://mipt.ru/english/edu/master/neural>

Куратор программы: **Prof. Eduard Avedian**

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The programme is designed to orient the students with the domain of computation science, neural network and their implementation in modern computer architectures with the application in the area of: · Information Security;

- Image Processing (2D and 3D);
- Signal Processing (voice, radar, etc.);
- Data Processing (text and other);
- Control systems;
- Modern computing hardware: GPU, FPGA, neurochips

KEY ADVANTAGES:

- Worldknown foreign partners and Professors;
- Focused on students projects;
- State-of-the-art in neural networks and neurocomputers;
- Wide range of neural network applications.

TEACHING METHODS:

- Lectures; Seminars and Computer Labs;

STUDIED COURSES:

- Basics of theory of probability and statistics;
- Neural network theory basics;
- Basics of neuromathematics;
- Professional tasks solutions based on Matlab and CUDA toolboxes;
- Fundamentals of Intelligent Cyber Security Management
- Intelligent technology for information security;

- Intelligent Learning Systems;
- Neuromathematics
- Image processing & Text processing;
- Computational intelligence;
- Neural Network Technology;
- Fuzzy Logic Technology
- Intelligent technology for information security;
- Neurocontrol;
- Neural Network Technology;
- Neurocomputers;
- Neurochips;
- Memristor based neural networks;
- Neuro-fuzzy technology in Intrusion Detection Systems on information resources;
- 3D images processing;
- Neural network based Intrusion detection system.

PROGRAMME PARTNERS:

- Centre of Information Technology and Systems (Russia);
- Czestochowa University of Technology (Poland).

Специализации в рамках данной программы