



**ALAR**  
Training Center



ONLINE SUMMER SCHOOL

# POWER ENGINEERING & COMPUTER SCIENCE

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July 5-18, 2021

LEARN ABOUT BASICS OF ADAPTIVE  
INFORMATION-ANALYTICAL SYSTEMS  
DEVELOPMENT! JOIN US!

ECTS credits: 3.0



Ural Federal  
University



## BRIEF DESCRIPTION

The project concerns modern power supply and innovative energy management technologies. Introduction to Data Analysis and Machine Learning. Fuzzy Logic, Genetic Algorithms, Neural Networks, Decision Trees, Data Mining and Knowledge Discovery in energy systems. Supervised and unsupervised machine learning techniques, learning from examples etc. Practical application of Big Data and machine learning approaches in power industry. Case-study based teaching approach, comparison of different algorithms using simulated and measured data for power industry-oriented problems. Basics of adaptive information-analytical systems development.

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### Cost:

US\$200

### Includes:

Trainings and lectures, handouts, consulting, software programs (if needed), culture activities, certificate and reference letter.

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**Program dates:** July 5-18, 2021

**Registration deadline:** June 3, 2021

**Entrance requirements:**

- Good command of English (B1+)
- Basic software engineering (programming)
- Computer modelling of technical systems
- Higher mathematics
- Energy production, transmission, consumption

**Professors and lecturers:**

Stanislav A. Eroshenko:

PhD, Senior Lecturer, Ural Power Engineering Institute, Department of Automated Electrical Systems

Alexandra I. Khalyasmaa:

PhD, Associate professor, Ural Power Engineering Institute, Department of Automated Electrical Systems

**Program partners:**

- Scientific and Technical Center of Unified Power System
- ProSoft Systems
- Svel
- Rosseti
- ABB



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