



ARTIFICIAL INTELLIGENCE, ADVANCED DATA ANALYSIS AND SIMULATION



Centre for Natural
Sciences
and Technologies

J. E. Purkyně University in Ústí n. L.
Faculty of Science
Pasteurova 3632/15
400 96 Ústí nad Labem

RNDr. Zbyšek Posel, Ph.D.

E-mail: zbysek.posel@ujep.cz
Tel.: +420 475 286 717
Room: 6.04 a 6.09

RNDr. Jiří Škvor, Ph.D.

E-mail: jiri.skvor@ujep.cz
Tel.: +420 475 286 711
Room: 6.01

RESEARCH/TECHNOLOGY INTRODUCTION

Laboratory for Data Analysis and Simulation applies artificial intelligence methods, advanced data analysis methods and simulation techniques for solving tasks from various fields of industry, research and education. These methods contain machine learning techniques (predictive models for business, suppliers, etc.), advanced data analysis methods (mining techniques, data correlation and clustering techniques, etc.) or application of methods for signal and image processing (detection of events in signal, image data extraction, etc.).

POTENTIAL USERS

All companies, and institutions, including research facilities, that use or produce digital data.

ADVANCEMENT OF TECHNOLOGY AND MARKET APPLICATION

- Utilization of data analysis and predictive models into decision making processes inside the institution.
- Mapping of data quality and preparation of data models for their future use in company.
- Automatic event detection and prediction of events from data.
- Data-driven optimization of processes and savings of internal resources in company.

ADDITIONAL INFORMATION

Laboratory for Data Analysis and Simulation have large IT infrastructure suitable for save and effective treatment of data, including confidential data.

