LABORATORY OF BUSINESS ANALYTICS, ARTIFICIAL INTELLIGENCE, AND DECISION-MAKING SUPPORT

National Technical University

"Kharkiv Polytechnic Institute"

Educational and Scientific Institute
of Computer Science and
Information Technology

Kharkiv, Ukraine

Istanbul Technical University

Informatics Institute

Istanbul, Turkey

About

The Laboratory is a structural subdivision of the Educational and Scientific Institute of Computer Science and Information Technology (hereinafter – the Institute) of the National Technical University "Kharkiv Polytechnic Institute" (hereinafter – the University, NTU "KhPI"), which is created to organize and conduct educational and research activities in Business Analytics, Artificial Intelligence and Decision Support in cooperation with the Informatics Institute of Istanbul Technical University (Turkey) with the support of the Ukrainian-Turkish Scientific and Technological Research Coordination Center of NTU "KhPI".

Business Analytics · AI · Decision-Making

International Laboratory

Focus Areas

The Laboratory focuses on carrying out research, scientific, technical, and educational activities in the following areas:

- Databases, Data Warehouses (**DWs**), Data Marts (**DMs**);

- On-Line Analytical Processing (**OLAP**), Multidimensional Analysis (**MDA**);

- Business Intelligence (**BI**) Reporting and Dashboards for Decision-Making

- Data Analysis, Uncertainty Analysis;

- Artificial Intelligence (**AI**), Machine Learning (**ML**), Computer Vision (**CV**);

- Business Process Modeling, Analysis, and Management (**BPM**);

- Weak-Structured Data Processing, Natural Language Processing (**NLP**);

- Multi-Agent Systems (**MAS**);

- Intelligent Data Analysis, Data Mining;

- Search Engine Optimization (**SEO**) on the Internet, and Virtual Promotion.

R&D Projects

Translation of Natural Language Business Rules into the Database Structure

by

Andrii Kopp & Dmytro Orlovskyi

Whitepaper:

http://ceur-ws.org/Vol-2870/paper94.pdf

Improving Item Searching On Trading Platform Based On Reinforcement Learning Approach

by

Olga Cherednichenko et al.

Whitepaper:

http://ceur-ws.org/Vol-2870/paper106.pdf

Virtual Promotion Based on Machine Learning

by

Sergey Orekhov

Whitepaper:

http://ceur-ws.org/Vol-2870/paper97.pdf

Partners

We are in software development and support services with 8 years experience supporting platforms for large clients. Our company provides offshore software development services. Our custom programming projects are cost-effective and flexible in terms of management.

https://ods-london.co.uk/

How can we help you? Silver Phoenix Consulting helps organizations make all their data ready for analytics, empower data science and data-driven decisions across the organization, and rapidly adopt machine learning to outpace the competition.

https://silverphoenixconsulting.ca

Comprehensive program for the professional integration of expatriate experts into Germany. The group of companies from Ukraine, Germany, Greece offers services for employers to find qualified professionals and services for job seekers to find jobs in Germany.

http://ictdialog.com

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