Autumn School on Advanced Perspectives on Data Science

04.09.2023 – 08.09.2023

Dortmund University of Applied Sciences and Arts

Emil-Figge-Str. 42, 44227 Dortmund

The project **"Virtual Master Cooperation Data Science"** **(ViMaCs)** aims to build a virtual learning and lab infrastructure for a digital teaching and module portfolio in the field of "Data Science".

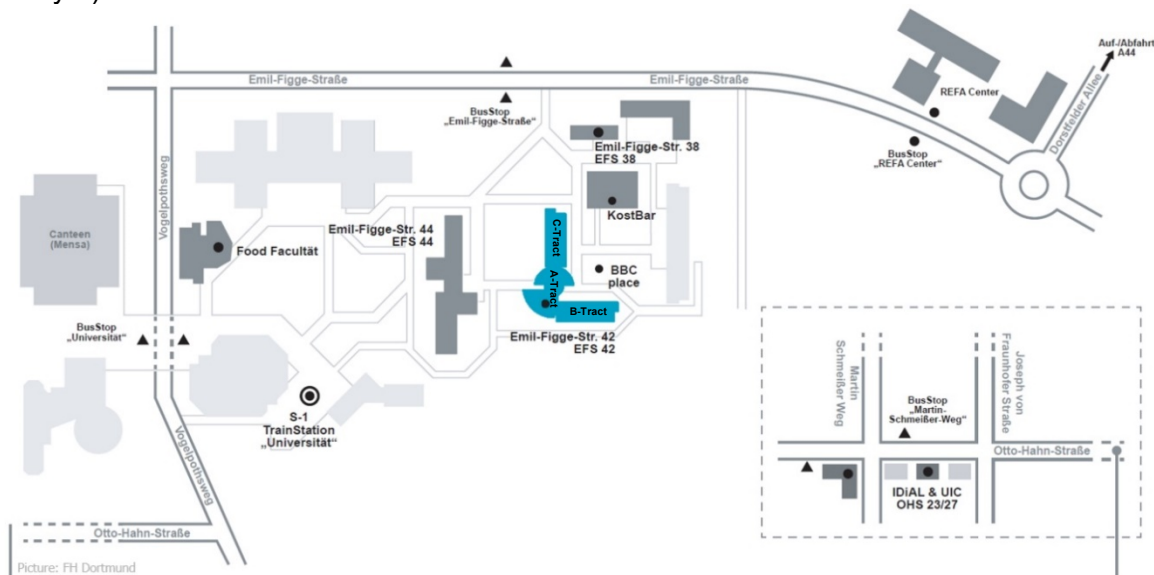The Winter School, based on the ViMaCs project funded by DAAD, is covering suchtopics as:

- Process-driven Approach for Big Data Acquisition and Processing
- Big Data Tools
- Python for Data Analytics
- Working with Open Data
- Model Evaluations: Main Metrics
- Communication with Clients

Students will have a possibility to apply their knowledge by solving a case study, at the end of the week the results of the teams will be presented and evaluated.

Lectures and workshops will be taught in English. The event is free of charge.

During the event you will need to work with Moodle, where you will find the needed materials for the event: https://moodle.go-study-europe.de/course/view.php?id=1390
The instruction on how to get enrolled in the course in Moodle and how to register (if you have no account yet) can be found in the email.

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Programme of the Winter School
on Advanced Perspectives on Data Science

Location: Emil-Figge-Str. 42, Room C.3.34

Time	Monday, 4 September	Lecturer
09:15 - 09:30	**Kick-off.** Announcement of the Team Members	Olena Verenych
09:30 - 11:00	Lecture "Process-driven Approach for Big Data Acquisition and Processing"	Anatoliy Sachenko
11:00 - 12:30	Lecture: Introduction to Big Data Tools	Natalia Myronova
12:30 - 13:30	Lunch	
13:30 - 14:00	Introduction to the case-study	Olena Verenych, Sergey Bezshapkin, Ihor Vasyliev
14:00 – 17:00	Teamwork (working on the case-study)	
Time	Tuesday, 5 September	Lecturer
09:00 - 10:30	Workshop "Principals of analytical graphic in decision making process"	Nataliia Yehorchenkova
10:30 - 12:00	Lecture "Working with Open Data"	Pavlo Bykovyy
12:00 - 13:00	Lunch	
13:00 - 16:00	Teamwork (working on the case-study)	
Time	Wednesday, 6 September	Lecturer
09:00 – 12:00	Lecture: Neural network architecture	Oleksandr Gurbych
12:00 - 13:00	Lunch	
13:00 - 16:00	Teamwork (working on the case-study)	
16:00 - 17:00	Q&A session for the case-study **Mandatory for all teams!**	Olena Verenych, Sergey Bezshapkin, Ihor Vasyliev
Time	Thursday, 7 September	Lecturer
09:00 - 10:30	Lecture: Stakeholders Evaluation	Olena Verenych
10:30 - 12:00	Workshop: Cloud Tools for Big Data Processing	Natalia Myronova
12:00 - 13:00	Lunch	
13:00 - 16:00	Teamwork (working on the case-study)	
Time	Friday, 8 September	Lecturer
09:00 – 12:00	Workshop: Discovery "Jira Product Discovery" - organize communication with clients and tech teams, capture and prioritize ideas, and collaborate with custom roadmaps.	Tetiana Kapliienko
12:00 - 13:00	Lunch	
13:00 - 16:00	Presentation of the case-study results (10-15 minutes for each team + feedback) **Mandatory for all teams!**	Natalia Myronova, Olena Verenych, Nataliia Yehorchenkova, Sergey Bezshapkin, Ihor Vasyliev
16:00 - 16:15	Closing, distribution of certificates	Olena Verenych, Nataliia Yehorchenkova

DAAD
Deutscher Akademischer Austauschdienst
German Academic Exchange Service

Fachhochschule Dortmund
University of Applied Sciences and Arts

IDiAL Institute for the Digital Transformation of Application and Living Domains

Federal Ministry of Education and Research