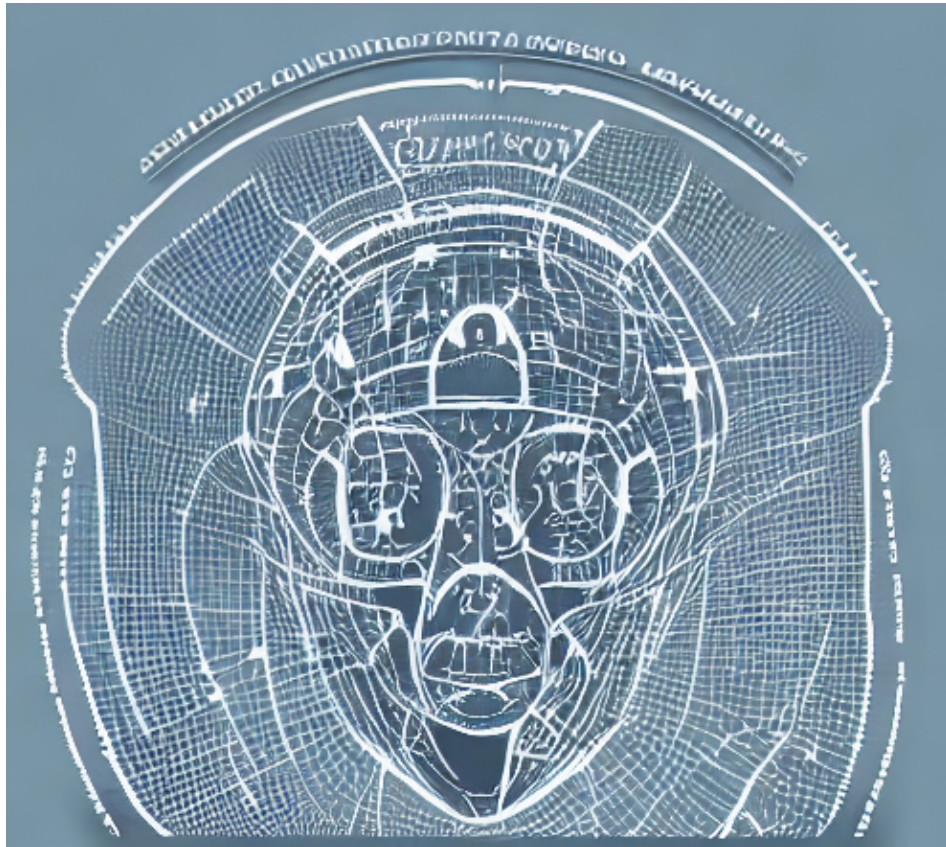


# ÖAW AI Winter School 2023



## Report of Contributions

Contribution ID: 1

Type: **not specified**

# Welcome

*Monday, 23 January 2023 09:00 (10 minutes)*

**Presenter:** WALTENBERGER, Wolfgang (Austrian Academy of Sciences (AT))

Contribution ID: 2

Type: **not specified**

## Closing

*Friday, 27 January 2023 12:50 (10 minutes)*

**Presenter:** WALTENBERGER, Wolfgang (Austrian Academy of Sciences (AT))

Contribution ID: 3

Type: **not specified**

## Introduction, NLP and deep learning

*Monday, 23 January 2023 09:10 (1h 20m)*

**Presenter:** WALKOWIAK, Tomasz

Contribution ID: 4

Type: **not specified**

# Introduction, Deep Learning and Natural Sciences

*Monday, 23 January 2023 11:00 (1h 30m)*

**Presenter:** KASIECZKA, Gregor (Hamburg University (DE))

Contribution ID: 5

Type: **not specified**

## Exercises

*Monday, 23 January 2023 16:00 (2 hours)*

**Presenter:** WALKOWIAK, Tomasz

Contribution ID: 6

Type: **not specified**

## Unsupervised methods

*Tuesday, 24 January 2023 09:00 (1h 30m)*

**Presenter:** KASIECZKA, Gregor (Hamburg University (DE))

Contribution ID: 7

Type: **not specified**

# Multidimensional Scaling, Data Visualization, and Explainable AI

*Tuesday, 24 January 2023 11:00 (1h 30m)*

**Presenters:** GNIEWKOWSKI, Mateusz; WALKOWIAK, Tomasz



Contribution ID: 8

Type: **not specified**

## Exercises - Normalizing Flows

*Tuesday, 24 January 2023 14:00 (2 hours)*

**Presenter:** SOMMERHALDER, Manuel (Hamburg University (DE))

Contribution ID: 9

Type: **not specified**

## Exercises

*Wednesday, 25 January 2023 14:00 (2 hours)*

<https://github.com/CDL-RecSys/oeaw-ai-winter-school-2023>

**Presenters:** NEIDHARDT, Julia; SERTKAN, Meta; KOLB, Thomas

Contribution ID: **10**

Type: **not specified**

## Sentiment Analysis

*Wednesday, 25 January 2023 09:00 (1h 30m)*

25 min Overview of Application of NLP in Recommender Systems and other areas + short introduction to Digital Humanism

45 min Sentiment Analysis

20 min Emotion Detection

**Presenters:** NEIDHARDT, Julia; SERTKAN, Mete; KOLB, Thomas

Contribution ID: 11

Type: **not specified**

## Toxicity, and Populism

*Wednesday, 25 January 2023 11:00 (1h 30m)*

25 min Emotion Detection

25 min Psychological perspective

15 min Toxicity Detection

25 min Populism Detection

**Presenters:** WAGNE, Ahmadou; NALIS, Irina; NEIDHARDT, Julia

Contribution ID: 12

Type: **not specified**

# Differentiable Programming

*Thursday, 26 January 2023 09:00 (1h 30m)*

**Presenter:** HEINRICH, Lukas Alexander (Technische Universität München (DE))

Contribution ID: 13

Type: **not specified**

## Simulation Based Inference

*Thursday, 26 January 2023 11:00 (1h 30m)*

**Presenter:** HEINRICH, Lukas Alexander (Max Planck Society (DE))

Contribution ID: 14

Type: **not specified**

## Exercises

*Thursday, 26 January 2023 14:00 (2 hours)*

**Presenter:** HEINRICH, Lukas Alexander (Max Planck Society (DE))

Contribution ID: 15

Type: **not specified**

## Exercises

*Friday, 27 January 2023 09:30 (1h 30m)*

**Presenter:** WALKOWIAK, Tomasz



Contribution ID: **16**

Type: **not specified**

## **Exercises - Model-Agnostic Explanation Techniques**

*Friday, 27 January 2023 11:30 (1h 20m)*

**Presenter:** GNIEWKOWSKI, Mateusz

Contribution ID: 17

Type: **not specified**

## Natural Language Processing

*Monday, 23 January 2023 14:00 (1h 30m)*

**Presenter:** WALKOWIAK, Tomasz

Contribution ID: **18**

Type: **not specified**

## Hackathon

Contribution ID: **19**

Type: **not specified**

## Welcome Reception

Contribution ID: 20

Type: **not specified**

## Exercises - Anomaly Detection

*Tuesday, 24 January 2023 16:30 (1h 30m)*

**Presenter:** SOMMERHALDER, Manuel (Hamburg University (DE))

Contribution ID: 21

Type: **not specified**

## Exercises

*Wednesday, 25 January 2023 16:30 (1h 30m)*

**Presenters:** WAGNE, Adhmadou; NALIS, Irina; NEIDHARDT, Julia

Contribution ID: 22

Type: **not specified**

## Exercises

*Thursday, 26 January 2023 16:30 (1h 30m)*

**Presenter:** HEINRICH, Lukas Alexander (Max Planck Society (DE))

Contribution ID: 23

Type: **not specified**

## Registration

*Monday, 23 January 2023 08:30 (30 minutes)*

**Presenter:** DE MONTE, Brigitte