



How to train an AI model

Workshop by Prof. David Cropley
University of South Australia



Date: Tuesday, October 8th, 2024

Time:

09-12: Technical issues of automated scoring processes by AI

13-17: Exemplary application on a scoring system to assess text quality

Place: Hubland Nord
DigiPäd - 00.204, building 64

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Questions? ↪

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↪ Registration, please!

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You still don't get how this works?
Neither do we! So we ask David!

Further information

Speaker:

Using AI for educational purposes is complex and requires technical skills on the one hand and benefits from previous experience on the other.

David Cropley has both: Coming from an engineering background, he has been working increasingly in recent years on methods of automated evaluation of various types of student products - relevant to school pedagogy - and has thus expanded his work focus in the field of school research (<https://people.unisa.edu.au/david.cropley>). For example, he and his co-authors recently were able to show that even children's drawings can be analyzed just as well by machine as they can by traditional human methods in terms of artistic and creative aspects (<https://doi.org/10.1080/10400419.2024.2339667>).

Workshop 1: 9-12

Technical issues of automated scoring processes by AI

The first workshop will shed light on the technical side by reporting on and testing questions relating to the structure, training and evaluation of an AI model. Participants in the first workshop will learn about the various steps required to build an AI model (data collection, pre-processing of data, model training, validation and fine-tuning, implementation) using the example of an already proven AI model for evaluating children's drawings. Participants will also learn how to train a neural network as a selected AI model with pre-processed data.

Workshop 2: 13-17

Exemplary application to assess text quality

The second workshop is dedicated to a concrete application by evaluating the suitability of an evaluation system for assessing text quality. Taking technical and pedagogical-didactic considerations into account, the workshop will work out which pedagogical-didactic objectives automated feedback can and cannot achieve.

