

BIG DATA ANALYTICS KNOWLEDGE EXCHANGE PLATFORM M1

Fin – Tech HO2020 project – AI, Market Risk and Robo Advisory

Note: This program is subject to changes.

Dates: 10 – 11 February 2020, Frankfurt Draft Agenda: Advanced Analytics Methods Day 1

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| 8.30 – 9.00 | Registration |
| 9.00 – 9.30 | Welcome by Bundesbank Markus Grimm
Opening and Introduction to FinTech-HO2020
Project Wolfgang Karl Härdle & Rui Ren, HU Berlin |
| 9.30 – 10.30 | Session 1
Basic Concepts Wolfgang Karl Härdle
Data management, digital economy, decision
analytics, AI and its future |
| 10.30 – 11.00 | Coffee break |
| 11.00 – 12.30 | Session 2
Network analysis Wolfgang Karl Härdle &
Jochen Papenbrock |
| 12.30 – 13.30 | Lunch break |
| 13.30 – 15.00 | Session 3
Financial Risk Meter (FRM) Wolfgang Karl Härdle
& Rui Ren
Methodology, examples in American, European
and Asian stock market |
| 15.00 – 15.30 | Coffee break |
| 15.30 – 17.00 | Session 4
AI Use Cases Wolfgang Karl Härdle & Rui Ren |

Dates: 10 – 11 February 2020, Frankfurt
Draft Agenda: Advanced Analytics Methods
Day 2

- 8.30 – 9.00** Getting started – technical set-up
- 9.00 – 10.30** **Session 5**
Deep Learning Glossary in Layman Language |
Wolfgang Karl Härdle & Stefan Lessmann
- Perceptron, cross-entropy, gradient descent,
back propagation, Boltzman machine, auto-
encoder, RNN, CNN, GANs, IML, LIME, LSTM, ...
Multi-core computing, computing in the clouds.
- 10.30 – 11.00** **Coffee break**
- 11.00 – 12.30** **Session 6**
Interpretable Machine Learning | Stefan
Lessmann
- 12.30 – 13.30** **Lunch break**
- 13.30 – 15.00** **Session 7**
eXplainable AI (XAI) in Regulated Financial
Services | Jochen Papenbrock
- Coffee break**
- 15.00 – 15.30**
- 15.30 – 17.00** **Session 8**
Recent Developments in Reject Inference
| Stefan Lessmann
- Evaluation and closing remarks**
- 17.00 – 17.15**

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Somel examples are presented in R or Python. The Quantlets are available here:

<http://www.quantlet.de/> 