Anomaly detection with neural networks

Report of Contributions

Contribution ID: **1**

Type: **not specified**

Overview (experimental setup, pixel and clusters, search for rare events with new physics, results from multilayer perceptron, results from self-organizing maps)

Friday 21 February 2020 10:00 (40 minutes)

Presenter: DORT, Katharina (JLU Giessen)

Session Classification: Presentations I

Contribution ID: **2**   Type: **not specified**

Understanding the n-dim data (principal components analysis, results from self-organizing maps with transformed input)

Friday 21 February 2020 10:40 (25 minutes)

Presenter: KÄS, Stephanie (JLU Giessen)

Session Classification: Presentations I

Contribution ID: **3** Type: **not specified**

Results from Hopfield networks

Friday 21 February 2020 11:05 (25 minutes)

Presenter: HEINZ, Irina (JLU Giessen)

Session Classification: Presentations I

Contribution ID: **4** Type: **not specified**

Convolutional networks

Friday 21 February 2020 11:30 (30 minutes)

Presenter: RINN, Klaus (THM)

Session Classification: Presentations I

Contribution ID: **5**   Type: **not specified**

Self-organizing maps

Friday 21 February 2020 12:00 (30 minutes)

Presenter: STRICKERT, Marc (JLU Giessen)

Session Classification: Presentations I

Contribution ID: **6**   Type: **not specified**

Deep learning applications for the CBM experiment at Fair and the NA61 experiment at CERN

Friday 21 February 2020 13:30 (30 minutes)

Presenter: LYNNIK, Olena (JLU Giessen, FIAS, milch&zucker)

Session Classification: Presentations II

Contribution ID: **7**   Type: **not specified**

Hardware implementation (FPGA, GPU)

Friday 21 February 2020 14:00 (30 minutes)

Presenter: LANGE, Jens Sören (JLU Giessen)

Session Classification: Presentations II

Contribution ID: **8** Type: **not specified**

Discussion and Wrap-Up

Friday 21 February 2020 14:30 (1h 30m)

Session Classification: Presentations II

Contribution ID: **9** Type: **not specified**

Welcome

Friday 21 February 2020 09:55 (5 minutes)

Presenter: LANGE, Jens Sören (JLU Giessen)

Session Classification: Presentations I