

SMARTHEP virtual kick-off meeting

Report of Contributions

Contribution ID: 1

Type: **not specified**

ESR1 - Helsinki, VERIZON, CERN - ML and RTA for Higgs boson measurements and fleet safety

Wednesday 24 November 2021 16:00 (10 minutes)

Presenters: KIRSCHENMANN, Henning (Helsinki Institute of Physics (FI)); VOUTILAINEN, Mikko (Helsinki Institute of Physics (FI))

Session Classification: Introductory session

Contribution ID: 2

Type: **not specified**

ESR2 - IBM, Sorbonne, CNRS, Liege - Real-time rule induction in fraud detection and HEP

Wednesday 24 November 2021 17:00 (10 minutes)

Presenter: GLIGOROV, Vladimir (Centre National de la Recherche Scientifique (FR))

Session Classification: Introductory session

Contribution ID: 3

Type: **not specified**

ESR5 - UniGe - Machine Learning pattern recognition for exotic physics and market analysis

Wednesday 24 November 2021 16:50 (10 minutes)

Presenter: SFYRLA, Anna (Universite de Geneve (CH))

Session Classification: Introductory session

Contribution ID: 4

Type: **not specified**

ESR6 - CERN, Lightbox, CNRS/Sorbonne - Efficient RTA in ATLAS and finance using multithreading

Wednesday 24 November 2021 17:10 (10 minutes)

Presenter: PETERSEN, Brian (CERN)

Session Classification: Introductory session

Contribution ID: 5

Type: **not specified**

ESR7 - Sorbonne, CERN, Ximantis - RTA on heterogeneous architectures for LHC and self-driving cars

Wednesday 24 November 2021 17:20 (10 minutes)

Presenter: GLIGOROV, Vladimir (Centre National de la Recherche Scientifique (FR))

Session Classification: Introductory session

Contribution ID: 6

Type: **not specified**

ESR8 - Nikhef, Dortmund, Point8, CERN - Optimization of RTA resources for LHCb LFV search and manufacturing

Wednesday 24 November 2021 16:10 (10 minutes)

Presenters: RAVEN, Gerhard (Nikhef National institute for subatomic physics (NL)); RAVEN, Gerhard (Natuurkundig Laboratorium-Vrije Universiteit (VU)-Unknown); ALBRECHT, Johannes (Technische Universitaet Dortmund (DE))

Session Classification: Introductory session

Contribution ID: 7

Type: **not specified**

ESR9 - Dortmund, Ximantis, CERN, USC - Machine Learning for Real Time Analysis of Lepton Flavour Violation in neutral meson decays and traffic predictions

Wednesday 24 November 2021 16:20 (10 minutes)

Presenter: ALBRECHT, Johannes (Technische Universitaet Dortmund (DE))

Session Classification: Introductory session

Contribution ID: 8

Type: **not specified**

ESR11 - Heidelberg, Dortmund, VERIZON, University of Santiago de Compostela - Real-time analysis for Dark Photons search in LHCb and smart vehicles

Wednesday 24 November 2021 16:40 (10 minutes)

Presenters: BORSATO, Martino (Ruprecht Karls Universitaet Heidelberg (DE)); HANSMANN-MENZEMER, Stephanie (Ruprecht Karls Universitaet Heidelberg (DE)); MENZEMER, Stephanie (Physiks Institut Heidelberg)

Session Classification: Introductory session

Contribution ID: 9

Type: **not specified**

ESR10 - Dortmund, Point8, Nikhef - Real Time Analysis for global event triggering in LHCb and manufacturing

Wednesday 24 November 2021 16:30 (10 minutes)

Presenter: ALBRECHT, Johannes (Technische Universitaet Dortmund (DE))

Session Classification: Introductory session

Contribution ID: **10**

Type: **not specified**

ESR12 - Lund, Ximantis, CERN - Real-time calibration of ALICE TPC and ML traffic predictions

Wednesday 24 November 2021 17:30 (10 minutes)

Presenters: OHLSON, Alice (Lund University (SE)); CHRISTIANSEN, Peter (Lund University (SE))

Session Classification: Introductory session

Contribution ID: 11

Type: **not specified**

ESR13 - Verizon, Sorbonne, Lund/Manchester - Real-Time Analysis through computer vision on dashcams and triggers in High Energy Physics

Wednesday 24 November 2021 17:40 (10 minutes)

Presenters: DOGLIONI, Caterina (University of Manchester (GB)); GLIGOROV, Vladimir (Centre National de la Recherche Scientifique (FR))

Session Classification: Introductory session

Contribution ID: 12

Type: **not specified**

ESR14 - UniMan - Accelerated anomaly detection

Wednesday 24 November 2021 17:50 (10 minutes)

Presenters: DOGLIONI, Caterina (University of Manchester (GB)); MASIK, Jiri (University of Manchester (GB))

Session Classification: Introductory session