

Session Program

22-23 May 2025

SMARTHEP Meets Industry @CERN (22nd-23rd May 2025)

ESRs' presentations

CERN

Friday 23 May

09:15

ESRs' presentations

Session | **Location:** CERN, 40/S2-A01 - Salle Anderson

09:15–09:20

GRAPH NEURAL NETWORK TRAFFIC PREDICTIONS ON REAL-TIME OBSERVATIONS

Speaker

Alexandros Sopasakis

09:20–09:25

LEARNING TRAFFIC ANOMALIES FROM GENERATIVE MODELS ON REAL- TIME OBSERVATIONS

Speaker

Alexandros Sopasakis

09:25–09:30

SIMULATION OF STREET VIDEO SCENES FOR OBJECT DETECTION MODELS IN COMPUTER VISION

Speaker

Henrique Piñeiro Monteagudo

09:30–09:35

ROAD SCENE UNDERSTANDINGFOR RISK ANTICIPATION FROM EGO-VEHICLE DATA

Speaker

Henrique Piñeiro Monteagudo

09:35–09:40

EFFECTS OF VIEWPOINT SHIFTS IN BIRD-EYE VIEW SEGMENTATION

Speaker

Patin Inkaew

09:40–09:45

STUDY OF INDUSTRIAL TIME SERIESDATA FOR SEGMENTATION AND PATTERN IDENTIFICATION

Speaker

Daniel Magdalinski

09:45–09:50

OPTIMIZED MACHINE LEARNINGINFERENCE THROUGH HETEROGENEOUSARCHITECTURES

Speaker

Sanjiban Sengupta

09:50–09:55

DEVELOPMENT OF SIMULATION- BASED INFERENCE INTERFACES IN THE ROOT SOFTWARE FRAMEWORK FOR INDUSTRIAL APPLICATIONS

Speaker

Jamie Gooding

09:55-10:00

REAL-TIME DATA ACQUISITION AND ANALYSIS FOR HIGH-FREQUENCY MONITORING IN INDUSTRY 4.0 AND BEYOND**Speaker**

Maximilian Amerl

10:00-10:05

NEXT-GEN BANKING FRAUD SIMULATION WITH AGENT-BASED MODELING AND LLMs**Speaker**

Micol Olocco

10:05-10:10

JET ENERGY CALIBRATION WITH REAL-TIME MACHINE LEARNING TRAINING AND ANOMALY DETECTION IN HIGH-ENERGY PHYSICS AND FINANCE**Speaker**

Laura Boggia

10:10-10:15

REAL-TIME MARKET ANALYSIS WITH RECURRENT NEURAL NETWORKS FOR PREDICTIVE INSIGHTS**Speaker**

Leon Bozianu

10:15-10:20

STUDY OF HISTORICAL TIMESERIES OF FINANCIAL DATA TO DEVELOP MACHINE LEARNING APPLICATIONS FOR ANALYSIS AND PREDICTION OF FINANCIAL ASSETS**Speaker**

Sofia Cella

10:20