

MATLAB Expo May 10th and 11th,2023

Aerospace and Defense



May 10, 2023

Can You See Me Now? Analyzing Satellite-to-Ground Station Visibility

Rameez Ahmed, MathWorks Mike McLernon, MathWorks Ahmad Saad, MathWorks

Wed, May 10 | 9:00 am - 10:30 am (+04)

Register/Log in to save session

Wireless Connectivity and Radar

Catching Fire: Using Autonomous Drones to Detect and Track Wildfires

Sarah Mohamed, MathWorks Shweta Singh, MathWorks Brenda Zhuang, MathWorks

Wed, May 10 | 9:00 am - 10:30 am (+04)

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ΑI

Model Autonomous Navigation of a Mars Rover

Ameya Rajendra Godbole, MathWorks Chinmayi Lanka, MathWorks Kritika Ramani, MathWorks Harshal Upadhyay, MathWorks

Wed, May 10 | 9:00 am - 10:30 am (+04)

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Autonomous Systems and Robotics

Process of Building AI Models for Predicting Engine Performance and Emissions

Shakti Saurabh, Cummins Britant Sureka, Cummins

Wed, May 10 | 9:30 am - 10:00 am (+04)

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Algorithm Development and Data Analysis

Model-Based Design and Prototyping of FPGA/SoC in an Aerospace Application

Ashish Vijay, Collins Aerospace

Wed, May 10 | 10:00 am - 10:30 am (+04)

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Modeling, Simulation, and Implementation



May 11, 2023

MATLAB for Control of Cryogenic DT Fuel for Nuclear Fusion Ignition Experiments

Dr. Suhas Bhandarkar, Lawrence Livermore National Laboratory

Thu, May 11 | 8:30 am - 9:00 am (+04)

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Algorithm Development and Data Analysis

Accelerate Aerial Autonomy with Simulink and Microsoft Project AirSim

Effendi Dufford, Microsoft Balinder Malhi, Microsoft Fred Noto, MathWorks

Thu, May 11 | 9:30 am - 10:00 am (+04)

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Autonomous Systems and Robotics

Verification of Avionics Systems Using Simulink Test and Simulink Real-Time

Maciej Stefaniak, GE Aerospace

Thu, May 11 | 1:00 pm - 1:30 pm (+04)

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Modeling, Simulation, and Implementation

DevOps with MATLAB: A Predictive Maintenance System for Streaming Data

Christine Bolliger, MathWorks Nicole Bonfatti, MathWorks Seth DeLand, MathWorks

Thu, May 11 | 1:00 pm - 1:30 pm (+04)

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Cloud, Enterprise, and DevOps

Understanding and Verifying Your Al Models

Lucas Garcia, MathWorks

Thu, May 11 | 1:00 pm - 1:30 pm (+04)

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AI

ANA's Predictive Maintenance Challenge: Replace Aircraft Parts Before They Break

Sadanari Shigetomi, All Nippon Airways Co., Ltd.

Naoya Kaido, All Nippon Airways Co., Ltd.

Thu, May 11 | 9:30 am - 10:00 am (+04)

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Development of Signal Processor and Extractor Module for 3D Surveillance Radar

Mohit Gaur, Bharat Electronics Limited

Thu, May 11 | 10:00 am - 10:30 am (+04)

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Wireless Connectivity and Radar

Optimizing the Design and Operation of Radar and Antenna Systems in MATLAB

Sumit Garg, MathWorks Chris Lee, MathWorks

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Wireless Connectivity and Radar

Intel Agilex FPGA-in-the-Loop Simulation: Enabling DSP Emulation for Space-BACN

Ziyi Zhu, Intel

Thu, May 11 | 1:30 pm - 2:00 pm (+04)

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Wireless Connectivity and Radar