MIPET & STRATEGOS Webinar

Machine Learning and Data Analytics for Asset Health Management

POC: Dr.Daniel Viassolo, Amazon.com

Please check Next Page for further details

NEW *11.30-14.30 GMT, May 20, 2022 Webinar on MS Teams MIPET*

This module is a joint cooperation with Ordine Ingegneri, Partner companies, Confindustia and it is organized by STRATEGOS & MIPET of UNIGE

This webinar will first introduce basics notions and methods in Data Analytics and Machine Learning.

Second, it will focus on "asset health management" where the concepts of Anomaly Detection, Failure Diagnostics and Prognostics will be described and illustrated through industrial examples.

The webinar is on 1 days (4 class hours total) and include a short project to be implemented in Python – previous Python knowledge is useful but not required. Notice there is some pre-work (about 2 hours) devoted to self-install open source software on your laptop, so please contact us in case you want to join in order to get the preparation kit in time. The presenter is a top international expert on the field with 20+ years of experience in industrial technology development.

This Webinar runs on MS Teams; after each presentation it will be held an open discussion including interactive demonstrations, videos, virtual labs. **CFP 6 Credits**

Credits of Ordine degli Ingegneri are available for attending Engineers

Genuense Athenaeum
Est.1471 AD

Please contact marina.massei@simulationteam.com to request access

URL: www.simulationteam.com/mipet   www.simulationteam.com/strategos/schedule

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Agenda

0   **Intro to Python, including numpy, Pandas, matplotly, etc.**

1.0 **Prognostics and Health Management (PHM) with emphasis on Maintenance Applications and Data-Driven (Machine Learning) methods**

  a. **Anomaly Detection – fundamentals and application examples**

  b. **Fault Diagnostics, Detection Fundamentals & Application Examples**

  c. **Fault Prognostics, Prediction Fundamentals and Application Examples**

2.   **Basic concepts and examples of Deep Learning applications**

3.   **Discussion on Project goals and potential challenges**

This Webinar runs on MS Teams; after each presentation it will be held an open discussion including interactive demonstrations, videos, virtual labs. **CFP 4 Credits**

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