

MIPET & STRATEGOS Webinar

Machine Learning and Data Analytics for Asset Health Management

POC: Dr.Daniel Viassolo, Schlumberger

Please check Next Page for further details

14.00-19.00B, GMT+1, October 26 & 14.00-17.00B, Nov.2, 2020 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 will span 2 days (8 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

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

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

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experience in industrial technology development.

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General Plan:

This Workshop is organized based on a total of 8 hours webinar over 2 days, plus pre-work and it is structured as following:

Pre-work: To make sure all participants have some minimum level of understanding/preparation plus ensure they have the right software installed in their laptops. The pre-work will take a total of approx. 2 hours and the instruction package will be provided to participants by email Click here to download it:

Day 1: October 26, 1400-1900B, GMT+2 [5 hours] Presentation of Methodologies, Examples and Tools

Day 2: November 2, 1400-1700B, GMT+2 [3 hours] Report-out by all teams and Interactive Experience

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Agenda for 1st Day, October 26, 1400-1900B, GMT+2

- 0 Intro to Python, including numpy, Pandas, matplotly, etc. [1/2 hour]
- 1.0 Prognostics and Health Management (PHM) with emphasis on Maintenance Applications and Data-Driven (Machine Learning) methods [3 hours]
 - 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 [1 hour]





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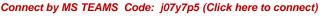


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