



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, Confindustria 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 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



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

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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:



https://teams.microsoft.com/_/files/General?threadId=19%3A1c297bd2c9334fb5ac001946c69c76de%40thread.tacv2&ctx=channel&context=PreWork_Viassolo&rootFolder=%252Fsites%252FSTRATEGOSWebinars%252FDocumenti%2520condivisi%252FGeneral%252FPreWork_Viassolo

- 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, matplotlib, 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]
- 3. Discussion on Project goals and potential challenges [1/2 hour]

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