ADMISSION

The webinar will be hosted on the Microsoft Teams platform.

The registration fee is 100.00 Euro + VAT*, where applicable (bank charges are not included).

CISM will financially support participants in the Advanced Webinar by providing registration fee exemption to PhD and researchers.

Online registration is available at https://www.cism.it/en/activities/courses/E2013

A message of confirmation will be sent to accepted participants.

The application deadline is November 26, 2020.

For further information, please visit CISM website.

* Italian VAT is 22%.

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ARTIFICIAL INTELLIGENCE FOR SMART MANUFACTURING

Advanced Webinar

CISM-UniUD Joint course
coordinated by

Marco Sortino
University of Udine
Italy

November 30 - December 1, 2020

ARTIFICIAL INTELLIGENCE FOR SMART MANUFACTURING

The large amount of data that are nowadays provided by sensor and machines in the manufacturing plants gives a unique chance to increase the competitiveness of companies. Advanced functions such as predictive maintenance, advanced quality and process adaptation and optimization are possible thank to mature technologies and methodologies such as artificial intelligence and machine learning, computer vision, collaborative robotics, additive manufacturing and many others.

This workshop aims at presenting up-to-date information on the latest developments – research and industrial experience – in the field of artificial intelligence techniques for manufacturing plants, thus providing an international forum for a beneficial exchange of ideas, and promoting a favorable cooperation between research and industry.

ORGANIZED IN COLLABORATION WITH

Friuli Innovazione, Udine, Italy

COMET, Pordenone, Italy

Joanneum Research, Graz, Austria

PROGRAMME

Monday, November 30

08.15 - 08.45	Registration
08.45 - 09.00	Welcome address **Paolo Gardonio** **Marco Sortino**
09.00 - 10.30	Machine Learning: state of the art and future perspectives **Christian Micheloni**
10.30 - 11.00	*Break*
11.00 - 12.30	Predictive Maintenance **Marco Sortino**
12.30 - 14.00	*Lunch Break*
14.00 - 15.30	A perspective of the application of Smart Manufacturing **Gianni Campatelli**
15.30 - 16.00	*Break*
16.00 - 17.30	Smart Monitoring of Machining Processes **Roberto Teti**

Tuesday, December 1

09.00 - 10.30	Intelligent Machine Tools and Process Optimization **Giovanni Totis**
10.30 - 11.00	*Break*
11.00 - 12.30	Advances in Industrial Applications of Computer Vision **Vojislav Petrovic** **Matthias Rüther**
12.30 - 14.00	*Lunch Break*
14.00 - 14.45	Artificial Intelligence for Siderurgical Plants **Marco Ometto**
14.45 - 15.30	Computer Vision applications **Daniele Fornasier**
15.30 - 16.00	*Break*
16.00 - 16.45	Smart Manufacturing **Giuseppe Saragò**
16.45 - 17.30	Closing remarks **Marco Sortino**

LECTURERS

Marco Sortino (3 lectures)
Course Organizer, University of Udine, Italy

Christian Micheloni (2 lectures)
University of Udine, Italy

Gianni Campatelli (2 lectures)
University of Florence, Italy

Roberto Teti (2 lectures)
University of Naples, Italy

Giovanni Totis (2 lectures)
University of Udine, Italy

Vojislav Petrovic and **Matthias Rüther** (2 lectures)
Joanneum Research, Austria

Marco Ometto (1 lecture)
Danieli, Italy

Daniele Fornasier (1 lecture)
BeanTech, Italy

Giuseppe Saragò (1 lecture)
Wartsila Corporation, Finland