



Issues and challenges in IoT and smart manufacturing

30 November 2020

10:00 - 12:30 CET

On line Webinar



I.S.I.S. A. MALIGNANI

Agenda

10:00 – 10:10	Login – Zoom platform Registration needed on http://iot-malignani.eventbrite.it
10:10 – 10:15	Introduction by ISIS A. Malignani
10:15 – 11:00	IoT and Cybersecurity Agostino Dovier - Marino Miculan Università degli Studi di Udine - Degree course in “IoT, Big Data & Machine Learning (IBML)”
11:00 – 11:45	Sustainability and IIOT Rolando Paolone - Danieli S.p.A.
11:45 – 12:30	Digital Twins and new Business Models Roberto Siagri - Eurotech S.p.A.

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The webinar talks

IOT and Cybersecurity

10:15-11:00

The advent of IoT promises to deliver a breakthrough in everyday life, from consumers' experience to smart cities, from research to production environments. However, the increasing number of connected devices represent brand new targets for cybercriminals.

In this presentation, after a brief introduction to common IoT scenarios, we will discuss security risks related to IoT. This situation highlights the importance of cybersecurity awareness and readiness, and hence the need of professional experts in the field. To this end, the University of Udine offers a Degree in "IoT, Big Data and Machine Learning", which we will briefly present.



Agostino Dovier and Marino Miculan

Professors at Università degli Studi di Udine – Degree course in “IoT, Big Data & Machine Learning (IBML)”

Sustainability and IIOT

11:00-11:45

Sustainability is going to be the main driver of the economy in next years. Renewable energy is therefore a must and hydrogen will have its own role, both for CO2 reduction. Talking about steel production from mine, the blast furnaces, using coke for the oxide reduction, will be substitute by direct reduction plants using natural gas. This technology reduces the CO2 emission by 50%. Hydrogen will be the next step to go to zero emissions.

The steel produce from scrap is at a different level of CO2 emissions. Using renewable energy for the electrical loads, the CO2 emission will be dramatically reduce. On top of this technologies, there are solutions to manage the traditional equipment that will give benefits reducing the usage of energy.

The DDM (Digital Melter) is an evolution of the EAF (Electrical Arc Furnace) and thanks to the different power feeding architecture will be able to use directly the renewable energies. The energy used by the DDM (and other heavy loads in the steel plants) will be managed by a digital platform able to optimize, avoid over loads and peaks.

All solution possible thanks to IIOT technology and wide AI utilization.



Rolando Paolone - Group CTO

High School diploma – Malignani 1981, DANIELI from 1985

Draftsman – Designer – Engineering Team leader – Technical Director Long Product – Group R&D Director – Group CTO and Member of Executive Board



Digital Twins and new Business Models

11:45-12:30

With the 4th industrial revolution, we are entering a new production paradigm: the digital production. The new production model is based on the outcome of the products and not on the product itself. This is changing the economy for the better: with digital technologies we are now entering the new phase of sustainable growth. The sustainability is coming from the use of the products and not from the ownership of the product itself. In order to implement this new model real time data of the products are a must; these data are the Digital Twins of the products and are the enabler of this transformation.



Roberto Siagri – Eurotech Spa

Roberto Siagri was one of the founders of Eurotech where he is now the CEO. He has a long professional carrier in the ICT sector with different roles: computer hardware designer, chief technology officer, and head of strategic planning. As Eurotech CEO he focused on internationalization and development of new business models enabled by digital technologies. He has a master's degree in physics from the University of Trieste.

For further information please contact:



ISIS A.Malignani

For information on the webinar please write to webmaster@malignani.ud.it



TalentJourney

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