



Anno scolastico:
2020-2021

At the end of the 3rd Talentjourney partners' meeting, a webinar on the subject of IOT was held. About 290 people attended the event including students, teachers, companies and other organizations active in the sector. Here is the voice of some students of ISIS Malignani who attended the event.

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First of all, the event generally treated IoT. Internet of Things is a system of interrelated computing devices, mechanical and digital machines, objects, animals or people that are provided with unique identifiers and the ability to transfer data over a network without requiring human-to-human or human-to-computer interaction.

The topics that impressed us the most were the evolution of Internet use, the wide range of scenarios that are covered by Internet of things and the sustainability issue.

The use of the Internet has changed a lot in recent decades, initially it was used only for connectivity (email, web browsers, search) but over the years it has acquired more and more power and now it is used in many different fields: clothes, home, shopping, cars and at work. It's estimated that, in the future, more than 50 billion devices will be connected to the Internet.

The main areas of application of IoT are Home, Enterprise and Government. The applications we found more interesting were smart home, smart cars and smart devices like smartwatches, that are mainly used for fitness. In recent times, the companies which deal with the production of computer devices, have adopted a sustainable production method with low environmental impact, that is very helpful for our planet. Companies also power their plants with renewable energy sources, there is a great efficiency in the use of energy and a sustainable financing system.

In conclusion, we noticed that society is developing year by year and in the future more and more applications of Internet of things will be invented.

Testo elaborato da Cristian Coppo, Alessandro Marseu e Kristina Shinko (4 TEL C), a partire dai loro appunti personali e da quelli elaborati e condivisi dagli altri studenti della classe 4 TEL C.

Sara Ciganott... Cecilia Rizzott... Marino Miculan

Registrazione in corso...

Sustainability and IIOT

Rolando PAOLONE
CTO & member of the
DANIELI Group Executive Board

Issues and challenges in IoT and smart manufacturing

30 November 2020
10:00 - 12:30 CET
On line Webinar

L.S.I.S. & MALIGNANI

DANIELI / SINCE 1934
PASSION TO INNOVATE
AND PERFORM
IN THE METALS INDUSTRY



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Sara Ciganott... Cecilia Rizzott... AGOSTINO D...

Registrazione in corso...

ISSUES AND CHALLENGES IN IOT AND SMART MANUFACTURING THE CHALLENGES DANIELI

POWER THE PLANT FROM RENEWABLE ENERGY SOURCES — DIRECT INJECTION OF POWER INTO THE DC-LINK — RENEWABLE ENERGY MIX BASED ON COST AND AVAILABILITY	HIGH EFFICIENCY IN ENERGY UTILIZATION — ENERGY IN EXCESS CAN BE USED TO PRODUCE HYDROGEN FOR HYBRID GENERATORS AND FUEL CELLS — ON-SITE STORAGE (BATTERIES)	ON SITE POWER GENERATION — PHOTOVOLTAIC — HIGH EFFICIENCY WIND TURBINES — HYBRID POWER UNITS	SUSTAINABLE FINANCING — EASY ACCESS TO FINANCING PACKAGES — SHORT PAYBACK PERIOD
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Sara Ciganott... Cecilia Rizzott...

Registrazione in corso...

Why IoT is particularly vulnerable

IoT devices are even more vulnerable than usual software systems because

- **Always connected** => can be always attacked
- **Often wireless** => can be easily attacked (no physical separation)
- **Very heterogeneous** => difficult to cover all the variants
- **Installed and forgotten** (until something bad happens)
- **Often not updated** => vulnerabilities are not patched
- **Not powerful** => cannot implement complex security mechanisms
- Since they control important aspects of our life, they are important for us => they attract the interest of cybercriminals looking for ransoms, or to change elections, or to stop some critical infrastructures, etc.

M. Miculan (DMF, UnRND) IoT and Cybersecurity

Chat

Da Fabio a Tutti:
ok

Da Alessio Hoshellari a Tutti:
helloo

Da perff a Tutti:
Hello, I'm a student from Malaysia, I would like to ask a question, will Internet of things actually work over the Internet or will it have its own dedicated wide area network?

Da Simone Bandetoli a Tutti:
My personal greetings to professor Miculan

Da Frank a Tutti:
ciao mi en link

Da Simone Bandetoli a Tutti:
In our school we are going to plan an IoT Design Course. Can professor Miculan recommend some developing platforms which are used not only in educational systems but also in the industry?

Da Squid Fawoti Jay a Tutti:
what about privacy concerns in regards to data collection?

Da perff a Tutti:
what happens to big data and privacy?

A. Tutti

Digitare qui un messaggio...

Indicizzazione Robots:

SI

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