

# TECH SHARE DAY 2021



24-26 November \_\_\_\_\_

IOT and Artificial Intelligence



24-26 November



IOT and  
Artificial Intelligence



**Tech Share Day 2021 IoT&AI** (Internet of Things & Artificial Intelligence) is an event from the **24th to the 26th of November 2021**, organized by the Netval Association in collaboration with the Ministry of Economic Development and the Italian Patent and Trademark Office (UIBM).

**A total of 8 webinars** will take place, 6 of the which will focus on the various aspects of IoT and AI, with relation to innovation in the field, applications within other industrial sectors, and the TT ecosystem that governs it. The remaining 2 webinars will feature round tables and discussions centred on the Italian TT ecosystem, both the regulatory and institutional aspects.

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The thematic webinars will be curated by the members of the JoTTO, the Joint Technology Transfer Office, in Italy set up by Scuola IMT Alti Studi Lucca; Scuola Superiore Normale di Pisa; Sant'Anna School of Advanced Studies of Pisa; IUSS Pavia University School; SISSA International School of Advanced Studies of Trieste and the Gran Sasso Science Institute.

Tech Share Day 2021 IoT&AI is a free global virtual event, aiming to bring together experts from the academic and industrial world under one roof and catalyse university-industry collaborations/partnerships. We are hoping to foster even more collaborations in this TSD edition and to put under the spotlight the most promising patents in IoT and AI, developed by our network of 98 universities.



# WEBINAR

10.00 - 12.00

## **TSD Opening Table**

Netval - UIBM - JOTTO

14.00 - 16.00

## **AI Application for Human Health**

Sant'Anna School of Advanced Studies

16.00 - 18.00

## **From Data to Knowledge To Action: machine learning in the Biomedical domain**

SISSA School of Advanced Studies

24 / 11 / 2021

25 / 11 / 2021

10.00 - 12.00

## **AI e Big Data nel Fintech**

Normal Superior School

14.00 - 16.00

## **Open data for Smart Cities and Public Administration**

Gran Sasso Science Institute

16.00 - 18.00

## **From Data Analysis to Industry applications**

University School for Advanced Studies  
Pavia IUSS

10.00 - 12.00

## **IoT and Artificial Intelligence on intelligent transporta- tion system**

IMT School of Advanced Studies Lucca

14.00 - 16.00

## **Wrap-Up and round table**

Netval

26 / 11 / 2021

**From 10 – 12 (CET) – Organized by: Netval; UIBM, JOTTO  
TSD Opening Table**

The opening webinar will introduce how the Tech Share Day event will unfold, and provide an overview of the thematic webinars and how participants can interact and connect with the featured research teams and opinion leaders. After the institutional greetings and the first presentation on how the technology transfer network linked to the Italian TT ecosystem is developing and evolving, the session will dive into the issues that dominate IoT and Artificial Intelligence sector, with experts within the field presenting their views, from both an ethical and industrial perspective.

Speakers: Riccardo Zicari, Andrea Moro, Shiva Loccisano, Francesco Morgia, Giuseppe Conti

**From 14 – 16 (CET) – Organized by: Scuola Superiore Sant'Anna  
Ai Applications for Human Health**

Interest in Artificial Intelligence (AI) and related technologies is growing more and more in recent years. Applying these technologies to healthcare has the potential to revolutionize the global healthcare system, as well as patient care. The aim of this webinar is to show the development of some AI healthcare technologies of great importance (such as machine learning and the automation of robotic processes), starting from the conception in the field of research up to its application. in predictive, personalized, preventive and participatory medicine (P4), as well as in the early diagnosis and treatment of specific pathologies.

Speakers: Calogero Oddo, Sara Moccia, Antonio Frisoli, Andrea Bertolini , Emilio Filippucci

**From 16 – 18 (CET) – Organized by: SISSA Scuola Internazionale Superiore di Studi Avanzati  
From Data to Knowledge to Action: Machine Learning in The Biomedical Domain**

Biomedicine is fast becoming a prime domain of application for data science. Technological breakthroughs offer the possibility of harvesting data at scale in a variety of contexts, from genomics to imaging to physiological and neurological signals. The complexity and diversity of the data offers phenomenal challenges to data science in a high impact area. In this webinar, we will illustrate recent research from SISSA scientists in four major areas of application: 1) cancer genomics, the problem of reconstructing the evolutionary history of cancers from sequencing data; 2) the problem of selecting automatically the relevant features to perform a prediction or develop a model in a clinical context; 3) the analysis and modelling of neuronal spiking data, uncovering the high-level functions of the brain; 4) the modelling of blood flow in the cardiovascular systems, marrying the physics and mathematics of fluids with data science and high performance computing.

Speaker: Alessandro Laio, Eugenio Piasini, Gianluigi Rozza, Guido Sanguinetti

**From 10 – 12 (CET) – Organized by: SCUOLA NORMALE SUPERIORE**  
**AI and Big data in Fintech**

The vast amounts of data generated by the markets is of great value. Our ability to implement mathematical and computational models capable of processing, analysing and generating reliable and representative models, will be a factor in determining the success of a solution. Models able to discriminate the structure of the markets, creditworthiness, fluctuations on different time scales, the determination of the share price, the analysis of systemic financial risk, are just some variables of interest in the sector. The academic sector has thoroughly mastered the skills the data analysis skill-set required for exploring increasingly advanced solutions. Furthermore, the advent of the blockchain is revolutionizing finance (cryptocurrencies, payment methods and more generally Decentralized Finance), creating the need for new quantitative models for an evolving reality. The aim of the webinar will be to show critical issues and opportunities that can be generated by combining models and methods of Quantitative Finance with the fintech sector.

Speakers: TBC

**From 14 – 16 (CET) – Organized by: GRAN SASSO SCIENCE INSTITUTE - GSSI**  
**Open Data for Smart Cities and Public Administration**

Open data supports the transparency of decision-making processes in public administration. The data offered in an open format can be made available to third parties using different formats and levels of protection, as well as offering the use of data belonging to different application domains. Recently, open data has gained visibility in the Smart City, where the data produced by sensors, mobile applications, and inclusive systems for the citizen are poured into databases and aggregated to be then made available to public administration and citizens through processable formats opened or viewed through dashboards that support government decision making often supported by AI-based analytics. The goal of this webinar is to touch these issues from various perspectives and show what has been done in this area by our institute.

Speakers: Ludovico Iovino, Martina De Sanctis, Luca Scipioni, Enrico Stagnini, Federica Di Michele, Vittorio Alvino

**From 16-18 (CET) – Organized by: SCUOLA UNIVERSITARIA SUPERIORE IUSS DI PAVIA**  
**From Data Analytics to Industry Application**

The increased use of Machine Learning, Neural networks, Deep Learning and the other analytical models and techniques underlying Artificial Intelligence, will play an increasingly important role in satisfying the needs of companies and consumers. The aim of this webinar is to show the opportunities created by combining artificial intelligence with new data analytics and imaging techniques for predictive diagnostics within various fields such as medicine, engineering, space economy applications, and seismic and environmental assessments.

Speaker: Andrea Taramelli, Maria Jose Jimenz Alvarado, Bruna Alves, Giovanni Sylon Labini, Denis Sarigiannis, Roberto Nascimbene, Stefano Cappa, Christian Salvatore

**From 10-12 (CET)– Organized by: SCUOLA IMT ALTI STUDI LUCCA  
IoT and Artificial Intelligence on Intelligent Transportation System**

The aim of this webinar is to discuss the opportunities that arise from two main aspects of AI applications in an urban environment. The first concerns the study of data generated through the application of AI techniques to the said environment. The later focuses on the interaction of a mobile object equipped with AI and its surrounding space. In the recent years, modern cities have become prolific in data. There are many new sources that gather the data we can tap into, this includes sensors (IoT), connected public transport and the data generated by the public in their daily activities. This huge amount of data can be processed with AI techniques to improve the services provided by the city. On the other hand, the new technological discoveries linked to AI, also allow the interaction of mobiles objects directly with the urban space; good examples, are self-driving vehicles and sensors for the coordination of trains and trams.

Speaker: Marinella Petrocchi, Mario Zanon, Simone Soderi, Giorgio Gnecco, Fabio Pinelli

**From 14 – 16 (CET)- Organized by: Netval; UIBM, JOTTO  
Wrap-Up – CLOSING SESSION**

The closing event will reflect on the ideas that were coined during the webinars, held over the course of the Tech Share Day, and introduce a round table that will analyse, from different points of view, how institutions approach IoT and AI. Various opinion leaders will present the challenges and the on-going projects related to this field, highlighting which best practices and synergies can be sought and put into practice. The partners who have created and supported the TT ecosystem at a national level, will close the session with final remarks.

Speaker: Domenico Golzio, Marco Bani, Shiva Loccisano, Giuseppe Conti





For Other Information, please refer  
[Here](#)



 [Knowledge Share](#)

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