

The Association of Italian Scholars in China (AAIIC)
&
The China-Italy Chamber of Commerce (CCIC)

Are pleased to invite you to the event

DIGITAL INNOVATION

The Italian Experience

Saturday, October 13th
2:30pm – 7:30pm
SICES, Tongji University

PROGRAM

- 14:30–14:35 Greetings from CCIC: Davide Cucino, Chairman CCIC
14:35–14:40 Greetings from AAIIC: Ivan Cardillo, Chairman AAIIC

PART I – THE INTERNET OF THINGS

Introduced by Denis Bastieri

- 14:40–15:05 Alessandro Antonicelli – ClioEDU
Title: *“IoT: Italy of Things. Recent Developments of the Italian IoT”*
15:05–15:30 Charles Fang – Magneti Marelli
Title: *“Industrial IOT Technology (IIOT) and application in MM Industrial 4.0”*

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15:30 – 15:35 Greetings by Michele Cecchi, Consul General of Italy in Shanghai

PART II – ARTIFICIAL INTELLIGENCE & ROBOTICS

Introduced by Valtero Canepa

- 15:35 – 16:00 Filippo Fabrocini - Beijing University of Science and Technology
Title: “*Human and Machine Learning: What Machines can Learn from the Human Mind and what Humans can Learn from Machines*”
- 16:00 – 16:25 Wallace Bie Chao – Comau (FCA Group)
Title: “*HUMANufacturing: Comau Approach to Industry 4.0*”

PART III –BIG DATA

Introduced by Denis Bastieri

- 16:25–16:50 Lucio Angelo Antonelli - Director Astronomical Observatory
Monte Porzio Catone
Title: “*Astronomically Big Data*”
- 16:50–17:15 Luca Carpinelli – Florentia Village
Title: “*Marketing Application of Big Data*”

--- 15 mins break ---

PART IV – CONCLUDING SPEECHES, FINAL PANEL, AND NETWORKING

Introduced by Valtero Canepa

- 17:30 – 17:55 Giovanni Moroni – Tongji University
Title: “*Technological Convergence in Industry*”
- 17:55 – 18:20 Rosanna Terminio – Asecorp China
Title: “*AI & Impact on Labor Market*”
- 18:20 – 19:00 Final Q&A session with the speakers’ panel
Moderators: Denis Bastieri & Valtero Canepa
- 19:00 – 19:30 Informal social and networking

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The Association of Italian Academics in China (AAIIC) and the China-Italy Chamber of Commerce (CICC) are delighted to invite you to the event “*Digital Innovation: The Italian Experience*” (DIT). The aim of the DIT will be the gathering of experts from the worlds of industry, academia, applied technology, and human resources for a half-day thorough discussion and debate about the challenges and opportunities in the fields of IoT, AI, Machine Learning, and Big Data.

Please join the speakers, and the final panel to deepen our understanding of the perspectives offered by the fast-growing progress of the digital technologies. There will be also substantial focus on the implications of the expedited progress of these technologies regarding managerial decision making, investment opportunities, and an exploration of what will be the skill sets to be developed to meet an ever-changing labor market demand and supply. We will explore recent trends in the demand of training, skills and competences which will serve companies, managers, and employees to face the fast-moving job market. Specific attention will be finally reserved to the examination of the implications for industrial organizations, resource management, and human capital within a landscape of technological progress and convergence. **We are really looking forward and will be delighted to seeing you participating at this event. Please come to share your ideas, perspective, to enrich our community’s knowledge on what we believe is one of the most interesting and exciting dimensions of technological change for the years to come.**

Best Regards,
AAIIC, and CCIC

LANGUAGE: All the event’s activities will be held in English

PARTICIPATION

Contact information: sh.events@cameraitacina.com

ORGANIZING AND SCIENTIFIC COMMITTEE

Denis Bastieri (Guangzhou University), Alberto Batinti (SUFE), Valtero Canepa (Bracco), Francesco Zonta (ShanghaiTech)

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📍 **VENUE**

Sino-Italian Center for Environmental Sustainability (SICES)

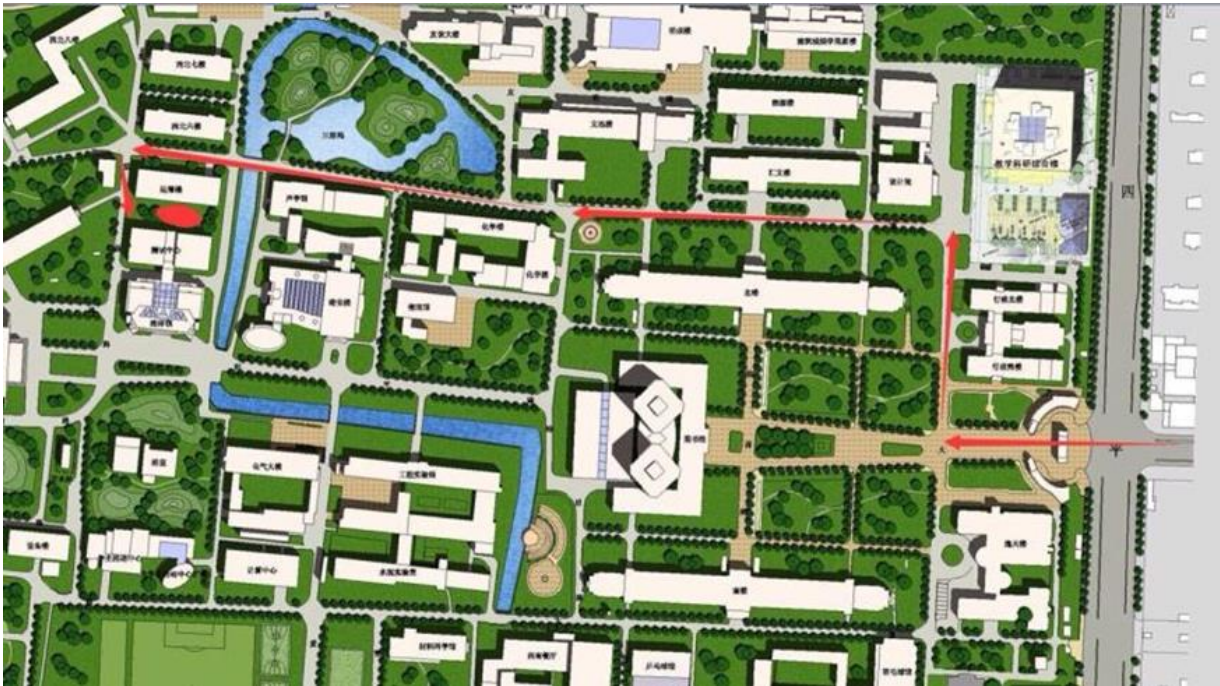
Yunchou Building, Siping Road n. 1239, Tongji University, Yangpu.
Shanghai, 200092. Tel 65983561

上海市杨浦区四平路 1239 号同济大学运筹楼

🚇 **Metroline 10**

Stop Tongji University, Exit2

CAMPUS MAP - HOW TO REACH US



Map of Tongji University Siping Campus. Turn right from exit 2 to reach the main entrance

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THE SPEAKERS

Lucio Angelo Antonelli is the Director of the INAF - Astronomical Observatory of Rome since 2018. In 2017, he served as Director of the Space Science Data Center of the Italian Space Agency (ASI). He is the INAF Representative at the MAGIC international experiment and since 2006 he is involved in the CTA International Project. He is responsible for the Scientific Data Analysis and Archiving of the ASTRI Project which represents the INAF participation to the CTA. He has been awarded with the Bruno Rossi Prizes in 1998 (nominally with other 19 scientists). He is currently teaching at Master in Space Science and Technologies at the University of Rome "Tor Vergata". He is member of the Council Board of the Italian Astronomical Society, he is also member of the International Astronomical Union, of the European Astronomical Society and he has been also President of the Associazione Ricercatori Italiani in Astronomia e Astrofisica.

Alessandro Antonicelli has been constantly working and lecturing within Mew Media cops since 1999. In Italy, he has been Multimedia Project Manager first, and Creative and Strategic Director of the WebDesign and E-Learning Department, then for CLIOCOM, one of the first Internet Services Providers in the country. In China, he has been teaching Design and Multimedia to college and university level students since 2004, moved then to develop training from some of the fortune 500 companies operating in the country. Since 2011 he is Associate Professor, with expertise in New Media and Visual Communication. He is part of the Team that has developed a user-friendly interface for multimedia format of teaching, called MediaBook. Among the many e-Learning projects he helped developing, particularly significant is the one with Unitelma Sapienza, together with one the largest studentwise universities in Europe, La Sapienza in Rome. While in CLIOCOM, he was also involved in one of the most relevant IoT experimental projects in Italy, called LORAITALY

Wallace Bie is the Marketing Head-APAC, Comau (FCA Group). He has solid experience in strategic planning, business development, sales management, branding in multi-national companies. He has held senior positions of sales & marketing in TIMKEN, GM, COMAU, etc. Mr. BIE is also responsible for government affairs in Comau China. He has solid knowledge on automotive, robotics, and automation sectors.

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Luca Carpinelli is Commercial Director of RDM-Florentia Village Luxury Outlets. He is a highly experienced Retail professional with strong international retail and real estate knowledge. Supervising Leasing, Retail and CRM he is responsible for drafting and implementing a consistent and cohesive customer experience, delivering excellence across all channels. Prior to RDM-Florentia Village, Mr Carpinelli has joined top management positions in fashion and real estate groups such as Miss Sixty, Replay and McArthurGlen among others.

Filippo Fabrocini is Full Professor in the School of Software Engineering at Beijing Institute of Technology (Beijing, China). He is as well VP Product R&D of Ceety Ltd., an AI Start-up specialized in "Smart Airports", and Strategic Consultant in several Chinese companies. Previously he has been Full Professor in the School of Computer Science and Software Engineering of Sichuan University (Chengdu, China). His main areas of interest are Artificial Intelligence, Machine Learning, with a special focus on Reinforcement Learning and Deep Learning, and Foundations of Cognitive Sciences. In the past he has been working for IBM Research, IBM Global Business Services, and EMC. He has been as well General Manager of the IBM Milan/Rome Business Innovation Center (BIC). Filippo Fabrocini is the author of nearly 30 publications including three books spanning over areas such as Mathematical Logic and Machine Learning. He has been awarded a number of prizes including two IBM Outstanding Technology Awards (OTA) when working at IBM Research.

Charles Fang is the ICT Head of APAC in Magneti Marelli. He has more than 18 years experience in IT project management, on ERP project, CIMS (Computer Integrated Manufacture system), and IT Infrastructure. He has solid functional knowledge on information system for automotive industries, and strong experience on BPR, MMOG/LE , ITIL , and Balanced Scorecard.

Giovanni Moroni is Full Professor in Manufacturing Technology and Systems at Politecnico di Milano, Mechanical Engineering Department, where he coordinates the Manufacturing and Production Systems research line and is member of the Scientific Committee. He is Associate Member of CIRP (The International Academy for Production Engineering), and member of AITeM (Italian Association for Manufacturing). Recently, he has been National High-end Foreign Experts at School of Mechanical Engineering, Tongji University, Shanghai, China. His main activities are related to geometrical product specification and verification, knowledge-based process planning, and digital manufacturing. On these topics, he is author of 168 publications and one patent.

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Rosanna Terminio is a consultant, contributor and lecturer specialising in innovation, strategy for the organization and human capital. With over 10 years of working experience in China, she is managing partner of AsecorpChina Business Consulting together with two Chinese partners. She gives lectures on Doing Business in China and HR Management in different MBAs and Universities in Europe and China and she offers pro-bono consulting to different CSR activities. As an Independent Researcher, she published an academic paper on the impact of Robotics and AI in the working environment, selected for three international conferences held on 2018. During 2018 she also contributed to the book dedicated to the topic People for Industry 4.0 recently published in Italy. Rosanna is certified as an Executive Coach (ICC) and LEGO®SERIOUS PLAY® facilitator. She provides career coaching to different level of professionals that are willing to take the next step in their careers.

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THE SCIENTIFIC COMMITTEE

Denis Bastieri is a professor at the Department of Physics and Astronomy at the University of Padova and Principal Investigator of the GPU Research Center on Parallel Computing. In Padova he is Co-Advisor for International Relations, East Asia, Special Advisor for the Relations with Guangdong and he is co-delegate at the “Tavolo Cina” of the Veneto Region. In China he serves into the National Thousand Talent Plan (13th selection) and he is Distinguished Professor at the Center for Astrophysics in Guangzhou and Honorary Professor at Qiannan Normal College for Minorities. He was awarded by Thomson Reuters as a Highly Cited Researcher (world top 1% in 2016). He was coordinator of the Work Package “Fast data analysis and parallel computing”, flagship Italian projects (Premiale) and referee for the Croatian Ministry of Education, the Italian Ministry of Education, the Italian Space Agency, the Science Foundation of Ireland and the National Institute for Nuclear Physics, Commission V (new technologies). He also refereed for scientific journals in Astrophysics, Optics, Physics, Space Science and Computer Science

Valtero Canepa leads the activities of the Bracco Group in China and Hong Kong, managing two WFOE and a Joint Venture with Sine, a company of the Shanghai Pharma Group, one of the biggest pharmaceutical Chinese companies. The JV employs about 370 people, with a comprehensive range of activities, including production, quality, promotion and distribution. Valtero moved to China in early 2013. Previously he was in sales, project management, marketing and business development positions in the pharmaceutical, medical devices and healthcare facilities business. He is Vice Chairman of the China-Italy Chamber of Commerce (CICC) and is a co-founder of the Healthcare Working group of the CICC. He has a specific interest in the impact of Digital Innovation on the enterprise management and in the opportunities offered by open and collaborative innovation.

Francesco Zonta is Research Associate Professor in the Shanghai Institute of Advanced Immunochemical Studies (SIAIS) of ShanghaiTech University. In SIAIS he is the director of the Informatics and Computation Platform and CO-PI of Prof. Micheal Levitt’s Lab of Computational Biology. His research interests are focused on understanding how protein mutation affect the properties of ion channels in the cell and in design antibodies for therapeutic purpose, by using theoretical and computational methods.

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TALKS ABSTRACTS

Lucio Angelo Antonelli *"Astronomically Big Data"*

Astronomy is since the beginning of time a "big data" factory. In this talk I will briefly present the behavior of astronomical data from past toward the challenging future observatories.

Alessandro Antonicelli *"IoT: Italy of Things. recent developments of the Italian IoT"*

My talk will be focused on the state of the art of IoT in Italy, and on the interesting lessons derived from this experience. I will focus first on the main actors and players involved within the supply chain of IoT in Italy, and then on two case studies. The first will involve LoRaWan, the second LoRaItaly. I will finally focus on IoT applications for long distance education initiatives.

Wallace Bie *"HUMANufacturing: Comau approach to Industry 4.0"*

Manufacturing is changing, thanks to the digital transformation, which accelerates technological transition and benefits to customers. In this process, people, machines and methods are three key factors, which matches with Comau's innovative pillars- manufacturing digital transformation, easy to use & value-added solutions, human-robot collaboration. In order to better explain of its own approach to Industry 4.0, Comau puts forward the concept of "HUMANufacturing". On this basis, Comau has integrated a series of products and solutions, such as Wearable Technologies – such as the brand new Comau exoskeleton MATE, collaborative robots – AURA, e.DO educational robot - to be launched very soon in China, application for mobile devices – eg. smartwatch - developed for the manufacturing field, etc. On the way to the digital future, Comau will continue to strive to move forward with innovative ideas throughout the entire process."

Luca Carpinelli *"Marketing application of Big Data"*

There is little doubt that Big Data is changing the world. It's transforming our lives and the way we operate business. But what is behind the phrase "Big Data"? The basic idea is that everything we do is increasingly leaving a digital trace which can be used and analyzed by companies to get richer and better insights and make smarter decisions. The talk will introduce the audience to real cases of Big Data application and best practice to turn complex data into value.

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Filippo Fabrocini “Human and Machine Learning: What machines can learn from the human mind and what humans can learn from machines”

Machine Learning deals with the question of how to build computers that improve automatically their own performance through experience. It is one of the most rapidly growing technical fields in the Artificial Intelligence area moving over the past three decades from an academic curiosity to a practical technology having a variety of commercial applications. However, besides the question of how to build machines that can automatically improve through experience, a related question is about the laws that govern any learning system (humans, organizations, computational systems). What can we learn from machine learning about human learning? But as well what can we learn from human learning about machine learning? How far are machine learning systems from human learning systems? Is the general excitement about Machine Learning justified? An answer to these questions requires an interdisciplinary approach gathering together computer scientists, statisticians, cognitive psychologists, neuroscientists, and philosophers. My talk will provide a sketchy answer to these questions.

Charles Fang: “Industrial IOT technology (IIOT) and application in MM Industrial 4.0”

The talk will first introduce Industrial IOT (IIOT) technology by first talking about, perceptual control technology, network Communication Technology, information processing technology, and safety management technology. The second part of the talk will be an introduction on how to use IIOT technology to implement MM Industrial 4.0 with the following areas: smart logistics, plant maintenance, quality management, and manufacturing execution.

Giovanni Moroni “Technological Convergence in Industry”

The ongoing 4th Industrial” Revolution refers to the development, convergence and application of technologies such as advanced manufacturing, additive manufacturing, augmented reality, simulation, big data and analytics, enabling the integration of physical and virtual worlds. Cyber-physical systems are the key elements of this process, enabling the integration of different technologies and self-reconfiguration, self-organization and self-optimization of manufacturing systems. The talk will introduce the audience to the cyber-physical production systems and their potential impact.

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Rosanna Terminio “AI impact on the labor market”

The impact of AI and Intelligent Robots in the working environment will increase anxiety and uncertainty and a sense of inadequacy compared to the intelligent technology and co-bots in a more disruptive way than in the past technological revolutions. To our knowledge, no study has yet deeply analyzed the actual impact that recent technological progress is likely to have on the employee sense of self-worth and career satisfaction; how this will impact on the organization and the society as a whole. This can potentially influence the outcomes of the current digital transition and contribute to social instability. This presentation will share the results of Mr. Rosanna Terminio and Eva-Rimbau Gilabert scoping review (2018) about the existing research on the impact of AI on work and, starting from its conclusions, expose the possible outcomes comparing different geographical perspectives. The contribution will continue analyzing, from practical experience and trends estimation, the needs for new competences to be acquired by all kind of employees within the organization as well as suggested styles of leadership for a positive digital transition at both company and society levels.

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