IFAC
INTERNATIONAL FEDERATION
OF AUTOMATIC CONTROL

IFAC ACTIVITY FUND OUTREACH EVENT

INNOVATION, SUSTAINABILITY AND RESILIENCY FROM A SYSTEMS-&-CONTROL PERSPECTIVE: A FORUM FOR IDEAS AND NETWORKING

BOLOGNA, ITALY, NOVEMBER 23, 2022

HOSTED BY:

ELENA ZATTONI
(Alma Mater Studiorum - Università di Bologna)
DANILO MASCOLO
(BI-REX)
JEAN JACQUES LOISEAU
(Laboratoire des Sciences du Numérique de Nantes)
ANNA MARIA PERDON
(Accademia Marchigiana di Scienze, Lettere ed Arti)
PAOLO MERCORELLI
(Leuphana Universität Lüneburg)

ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA
DEPARTMENT OF ELECTRICAL, ELECTRONIC,
AND INFORMATION ENGINEERING
"GUGLIELMO MARCONI"

bi-rex
Big Data Innovation & Research Excellence

The **one-day event** will be organized in connection with the "1st IFAC Workshop on Control of Complex Systems (COSY 2022), 24-25 November 2022, Bologna, Italy" as a **Pre-workshop Event** and will be concluded by an **on-site visit of BI-REX Pilot Plant**.

WHEN?
EVENT: **November 23** from 14:00 to 18:00 (2-6 pm).
PILOT PLANT TOUR: **November 25** from 9:00 to 10:00 (9-10 am).

WHERE?
EVENT: **Aemilia Hotel**, Via Giovanna Zaccherini Alvisi 16 – **Bologna**
PILOT PLANT TOUR: **BI-REX Headquarters**, Via Paolo Nanni Costa 20 – **Bologna**

WHY?
To **create the awareness of the crucial role of Systems and Control** in the implementation of the measures needed to achieve the present main goals of the local, national and international policy, like the transition to: digitalization, green and sustainable industry, cleaner energy an low-emission mobility.

The labor-market and civil-society actors who are pre-eminently addressed by the event are private and public enterprises, start-ups and spin-offs, industrial associations, leagues of cooperative enterprises, regional governance, civic and cultural associations.

BI-REX Competence Center plays a crucial role in the event organization as the joining link between the academic world and the actors to reach out.

AGENDA:
First part: Introduction to the event (14:00 - 14:30)
- **An Introduction to the IFAC Activity Fund Outreach Event** (E. Zattoni);
- **DEI presentation** (R. Rovatti);
- **BI-REX presentation** (D. Mascolo).

Second part: Use cases (14:30 – 17:50)
- **GTS: Robotics in Litter Hunting presentation** (E. Della Volpe);
- **VAR Group: One automaton to rule them all** (A. Jacassi, F. Corubolo);
- **Schneider Electric: Smart Manufacturing: how digitalization can support sustainable value chains** (M. Gamba);
- **Youbiquo: AR Smart Glass with Embedded Metrology for Quality Inspection in Industry** (P. Carratu);
- **STMicroelectronics: AI for Embedded Systems and use cases** (D. Ruggiero);
- **Atos: Monitoring Core processes with cloud-native IoT Platforms 4.0** (P. Cosma);
- **Nextema: Data-Driven Control in Digital Metallurgy by Direct Energy Deposition** (A. Ascari);
- **TIM: 5G in the Industry 4.0: future prospectives** (E. Buracchini).

Third part: Q&A (17:50 – 18:00)