

9th ACADEMY - INDUSTRY AFIS MEETINGS

Systems of systems: modelling, architecture, integration and dynamics.

7-8-9-10 December 2020

Université de technologie de Compiègne

Due to the global situation around COVID-19 this years conference will take place as a pure virtual event.

Forum 2020: December 8th, 9th and 10th

Systems of systems are increasingly being studied both academically and industrially. Initially originating in the defence sector, this approach quickly spread to the aeronautics sector, but is increasingly being used in the automotive and rail sectors, with in particular the issues raised by new modes of transport, in health and biology, with advances in increased human capabilities, and throughout industry in general with the advent of the 4th industrial revolution.

These 9th AFIS industry academy meetings are an opportunity to come and discover the latest scientific advances on the subject as well as the most recent operational achievements of companies. These days are an opportunity for academics and industrialists to look at systems of systems for the emergence of new ideas and new projects.

Pre-forum 2020: December 7th afternoon.

This pre-forum is a moment of exchange for local companies on a particular focus of the theme.

This year: *Factory of the future and cyber-physical system: what opportunities and challenges for SMEs?*



Final of the RobAFIS 2020 contest: December 8th and 9th. Open to the public.

This contest gathers different teams coming from the most famous French engineering schools to challenge each other on the design and realization of a robotic system based on Makeblock.

Program:

- Pre-forum 2020, December 7th afternoon:
Plenary sessions and round tables on systems approaches for the factory of the future.
- Forum 2020, December 8th, 9th and 10th:
Numerous plenary sessions of scientists and industrialists and thematic workshops on the theme of systems of systems.
- Final of the RobAFIS 2020 competition, on December 8th and 9th:
Pedagogical competition on systems engineering and its operational implementation based on Makeblock robots.
- Doctoral Seminar 2020, December 9th and 10th:
Presentation of current Ph.D. thesis works on systems engineering in the form of a 180-second presentations. Best presentations will be extended in papers and proposed to Insight (an INCOSE journal).
- System Engineering Ph.D thesis prize AFIS 2020, announcement of results during the Forum:
Presentation of the best Ph.D. thesis works on system engineering defended between October 2018 and October 2020.

Registration fees :

Due to the COVID-19 situation in France, these events will be fully virtual and free. However the registration will be mandatory to attend one or several of these events.

To register : <https://afis2020.utc.fr/>

Important dates:

Doctoral seminar: abstract submission by October 1st, 2020.

Ph.D. thesis prize: applying by November 10th, 2020.



Conference venue:

Université de technologie de Compiègne (UTC)

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