

# **2025 33rd International Conference on Enabling Technologies: Infrastructure for Collaborative Enterprises (WETICE 2025)**

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# 2025 IEEE 33<sup>rd</sup> International Conference on Enabling Technologies: Infrastructure for Collaborative Enterprises WETICE 2025

## Conference Program

### Invited Talk: Prof. Angelo Gargantini (University of Bergamo, Italy)

#### Are (formal) models still really useful in software engineering?

Abstract: *Models, which are an abstract mathematical representation of a system, are generally used in software engineering for several reasons, including, to formally specify system requirements and share them among stakeholders (e.g., developers, clients, designers). Their main classical goal is to document the system for future reference, and to analyze the system to be built in order to find issues as soon as possible. Modeling is often associated to a classical waterfall software process model as one of the first phases of the process. In some approaches, like Model-Driven Engineering, models are paramount, while in agile processes, models play a margin (if not null) role. In this talk, we will try to give a conceptual framework able to guide developers to evaluate how much modeling is necessary in their project. We will consider problems like model updating and the cost of correcting bugs without models. Furthermore, we will introduce the idea of reverse modeling, when models are extracted from existing code and co-modeling when models and code co-evolve together linked in a formal way.*

### Invited Talk: Prof. Giancarlo Ruffo (University of Piemonte Orientale “A. Avogadro”)

#### Connected worlds: how networks can help to understand fake news spreading, urban systems, and more.

Abstract: *Network science has emerged as a powerful and versatile framework for understanding the complexity of real-world systems, from the viral spread of information to urban dynamics. In this talk, we will explore how the same network principles can provide valuable insights on two seemingly unrelated domains: the persistence of urban segregation patterns and the rapid dissemination of fake news online. Also, network science can help to understand if fact-checking and urban planning are effective countermeasures of the drawbacks of a hyper-connected world. Drawing on recent research, we will examine how networks capture the underlying structure of social and spatial interactions, enabling predictive modeling, scenario testing, and deeper insights into systemic behavior. This talk aims to illustrate how network models transcend disciplinary boundaries and offer a unified language for analyzing diverse complex systems.*

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*Hussaini Aliyu Idris (University of Modena and Reggio Emilia), Giacomo Cabri (University of Modena and Reggio Emilia)*
- 7 Autonomic Cyber-Physical System for Teaching and Learning Process Engineering  
*Nicolas Evain (Université de Pau et des Pays de l'Adour), Ernesto Exposito (Université de Pau et des Pays de l'Adour), Mamadou Lamine Gueye (Université de Pau et des Pays de l'Adour), Philippe Arnould (Université de Pau et des Pays de l'Adour)*
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