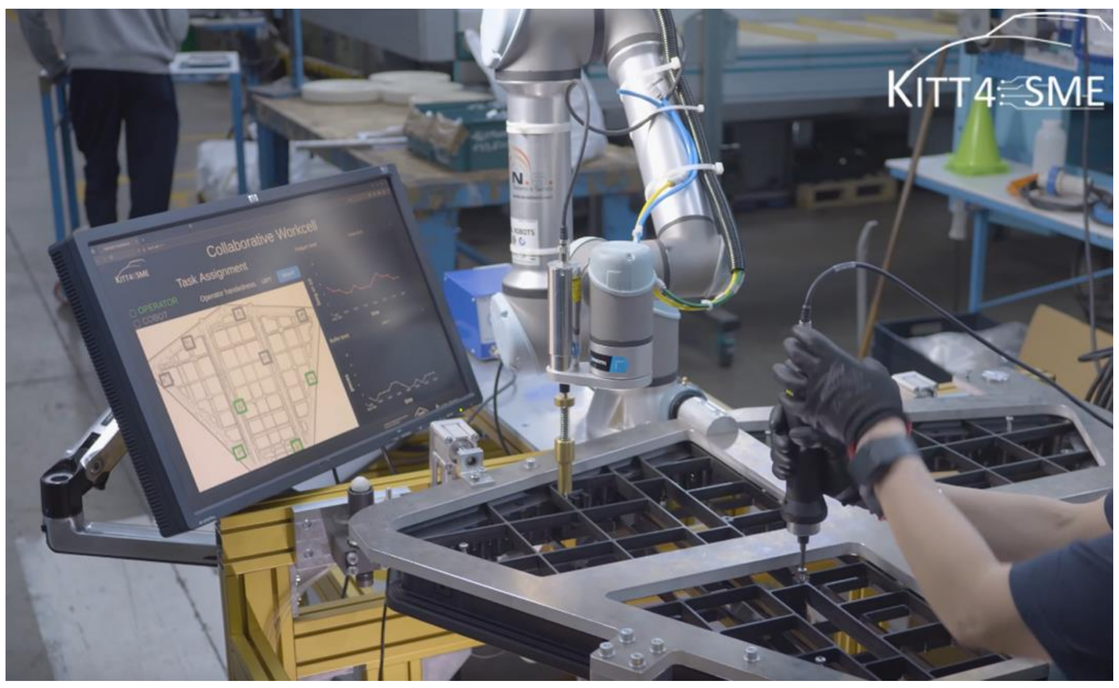
FACULTY SEMINAR

Date: September 23th, 2024, 10:15 AM
Place: Narbutta 85, NT 144

„Artificial Intelligence and Human-Robot Collaboration in Manufacturing”

Prof. Donatella Corti and Andrea Bettoni, University of Applied Sciences and Arts of Southern Switzerland (SUPSI)



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Abstract:

Artificial intelligence and collaborative robotics are today two extremely trending topics not only in industry but in society as a whole. Yet, despite the growing interest related to these technologies, their full potential is far from making its way in the productivity statistics. Many unanswered questions still stand between the wish to increase process performance and the reality of failed approaches. How can manufacturing companies select the processes with the greater potential for applying these technologies? How can they choose where to start from? How should their value network change for generating and sustaining the adoption of AI and cobotics? How can cobots symbiotically interact with workers and increase their well-being?

This seminar will delve deep into these topics presenting the results of a recently concluded European project named KITT4SME aimed at providing tailored AI kits to manufacturing SMEs. Methodologies for assessing the maturity model of manufacturing companies will be discussed and examples of applications of AI and cobotics in industry will be presented.

Position:

Ph.D. degree in Industrial Engineering from Politecnico di Milano, Italy.

Associate Professor from 2021 and Head of the Master of Engineering from 2024 at SUPSI.

Research and teaching focus:

Quality management and quality 4.0, digitalization strategies, servitization

Position:

M.Sc. degree in Mechanical Engineering from Politecnico di Milano, Italy.

Senior Lecturer-Researcher from 2019 and Head of the Human-Centred Production Systems group from 2022 at SUPSI.

Research and teaching focus:

Human-centred manufacturing, collaborative robotics, human digital twin, smart manufacturing, worker well-being

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