



**POLITECNICO  
MILANO 1863**



**GIANNI FERRETTI**

Vice Rector of the Cremona Campus  
of Politecnico di Milano

# Gianni Ferretti

## Vice Rector of the Cremona Campus of Politecnico di Milano

Gianni Ferretti is Vice Rector of the Cremona Campus of Politecnico di Milano, where he is Full Professor of Automatic Controls and Simulation Techniques and Tools at the Department of Electronics, Information and Bioengineering (DEIB). He took a degree in Electronic Engineering at the same university.

His research has mainly focused on: the control of robots and servomechanisms, the modelling and simulation of mechatronic, robotic and automotive systems and, more generally, the development of object-oriented techniques for the creation of Digital Twins, and modelling and control systems for biogas production plants.

He has been involved in developing various forms of innovation in education, including the design and launch of a Master's degree course in Agricultural Engineering at the Cremona Campus, the first of its kind in Italy.

He is co-author of over 130 articles, most of them published in international journals or presented at international conferences, and is the co-holder of 3 patents. He is also co-editor of 3 Special Issues and has been involved in many research projects with industries and institutions.



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## Vision

“The founding mission of Politecnico is to support developments in the field of production and the economy by means of science and technology”. Gianni Ferretti, Vice Rector of the Cremona Campus at Politecnico di Milano, fully reflects this vision in his work. Ferretti believes the mission is being properly implemented in the Campuses by offering courses related to local professions. There are basically two of these in Cremona, in the form of the Laurea Magistrali offered by the Campus: Music and Acoustic Engineering and Agricultural Engineering.

The technological skills developed in relation to acoustics have been mainly used to help preserve and encourage Cremona’s tradition of lute-making, recognised as an “Intangible Heritage of Humanity” by UNESCO. The course also covers all the matters related to acoustics in general: from innovations in the field of musical instruments to environmental acoustic design, and from the reproduction of sound to its processing and interpretation, including the recent and intensive use of AI tools.

There is also support for the agri-food industry, another speciality of the Cremona area. This is aimed at developing the skills that are now urgently needed in the context of technologies for agriculture, most especially to support the ecological transition to which the primary sector is asked to make an important contribution.

This high-level education has always been aimed at training the skills required for the digital transition and business management, as well as developing vocational skills. This has involved a constant dialogue with local authorities, institutions and other universities in the area (working in particular with Università Cattolica to develop skills in Agricultural Sciences). Thanks to these achievements, the Cremona Campus of Politecnico is now recognised as one of the main driving forces for development in the area. This recognition has resulted in funding from Fondazione Arvedi-Buschini for the construction of the new modern campus, with a functional and sustainable design.

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