

# PROF. Davide BRUGALI

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Prof. Davide Brugali graduated in Electronic Engineering at the Politecnico di Milano in 1994; he received the PhD in Computer Science from the Politecnico di Torino in 1998. From 2001 until 2011 he was Assistant Professor at the University of Bergamo. Since 2011 he has been Associate Professor at the Department of Engineering of the University of Bergamo.

He was visiting researcher at the CMU Robotics Institute for one year between 1997 and 1998 and visiting professor at NASA Jet Propulsion Laboratory for two months in 2006.

He is the coordinator of the Robotics Laboratory of the University of Bergamo. His research activity focuses mainly on software engineering methodologies and techniques for the development of autonomous robot control systems and applications.

Primary Areas of competence: Software Engineering in Robotics, Mobile Robots, Robot Control Architectures. Secondary Areas of competence: Embedded systems, Factory Automation, Industrial Robots.

## Teaching Activity:

Foundations of Computer Science (1996, 1998, 1999)

Object-Oriented Programming (2000-2005)

Embedded Real time Systems (2000-present)

Robotics: Principles and Practice (2004-present)

## International Commitments

- Founder and Co-Chair of the Technical Committee on Software Engineering for Robotics, IEEE Robotics and Automation Society (2005-present)

- Founder and Co-General Chair of the IEEE Robotic Computing and Communication Conference (2017-present)

- Member of the euRobotics AISBL Topic Group on Software Engineering, Systems Integration and Systems Engineering (2012-present).

- Distinguished Lecturer on SE for Robotics of the IEEE Robotics and Automation Society (2022-2023)

## Research Projects

- EU-ESPRIT "Terpsichore" (1998). Design and development of a communication and cooperation infrastructure for manufacture companies.

- EU-ESPRIT "AUTOSOFT" (1998-1999). Development of Software Reuse tools

- EU-IST WISE (2001-2003): Wireless Internet Software Engineering. Methodologies and techniques for engineering Internet services

- EU-FP7 BRICS (2009-2013): Best Practice in Robotics. Design and implementation guidelines for developing open and flexible robotic software systems.

- Research consultant for Brembo spa (2017-2019) on simulation and hardware in the loop tools

- National project SMIMI (2023-2025): Security in Modern Information Management Infrastructures

- Regional project Harmony (2025-2026): Human-Assisted Robotic Manufacturing for Optimized New Yield