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CURRICULUM VITAE

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Barbara Previtali is Full Professor in the Department of Mechanical Engineering of Politecnico di Milano (Italy), where she received her M.S. degree in 1996 and her PhD degree in 2002, both in Industrial Engineering. She became part of the Faculty of Politecnico di Milano as Assistant Professor (2001-2011), Associate Professor (2011- 2016) and then as Full Professor (since June 2016) in Manufacturing and Production Systems (Scientific disciplinary sector: 09/B1 - ING-IND/16).

In Politecnico di Milano Barbara Previtali teaches at the Industrial Engineering and Design Schools at the Mechanical, Design and Management Master levels as well as is supervisor of master and PhD theses.

At Politecnico di Milano Barbara Previtali leads the SITEC- Laboratory for Laser Applications of the Politecnico di Milano and is co-chair of the AddMe_Lab, the laboratory for metal additive processes.

At present she is a member of the Italian Association for Manufacturing - AITeM and of Photonics21, the European Technology Platform for photonics. She is the responsible of PromozioneL@ser, the group belonging to the AITeM association that collects Italian laser users in industry and academia and Academic responsible for Group 2-Industrial Manufacturing in CORIFI, the Italian Photonics Platform.

Her main research interests include modelling, optimization and control of laser processes and laser-based additive processes, especially numerical modelling and experimental approaches of welding, heat treatment, micromachining, selective laser melting (SLM) and laser direct energy deposition (DED) processes by innovative laser sources such as fiber and diode lasers. On these research subjects, she is author and co-author of about 170 papers published in referred international journals (70), international conferences (100) and 2 international patents.

The abovementioned researches have been generally developed on the basis of research programmes funded by national and international organisations as well as industry-driven activities.

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