Short CV – Prof. Dr. Stefania Bruschi

PERSONAL DETAILS

Actual position: Full Professor of Manufacturing Technologies
Department of Industrial Engineering
University of Padova, Padova – Italy
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EDUCATION

University of Parma, Parma, Italy	.	PhD	2002	Industrial Engineering
University of Ferrara, Ferrara, Italy		MS	1998	Materials Engineering

APPOINTMENTS

Mar 2012 – present:	Deputy Director Dept. of Industrial Engineering, University of Padova, Italy
Oct 2011 – present:	Full Professor Dept. of Industrial Engineering, University of Padova, Italy
Sep 2006 – Sep 2011:	Associate Professor Dept. of Mechanical and Structural Engineering, University of Trento, Italy
Jan 2004 – Aug 2006:	Assistant Professor Dept. of Industrial Engineering, University of Padova, Italy

RESEARCH FIELDS

- Testing and modelling material response to deformation in hot, warm and cold deformation conditions. Within this topic, innovative testing procedures to qualify material behaviour in bulk and sheet forming operations have been designed and set up, as well as new models (both analytical and neural network-based) have been developed and applied to a wide variety of metallic materials.
- Prediction of fracture occurrence in bulk and sheet metal forming operations conducted at both room and elevated temperature. Both ductile fracture criteria and Continuum Damage Mechanics-based models have been developed and applied to reference industrial cases.
- Design and optimization of innovative stamping operations conducted at elevated temperatures, with particular emphasis in evaluating: (i) formability of the new generations of HSS, high-resistant aluminium alloys, titanium and magnesium alloys; (ii) anisotropy and texture; (iii) phase transformation-related parameters as a function of the applied load; (iv) friction and heat transfer coefficient at the blank-dies interface.
- Evaluation of the integrity of Additive Manufactured metal alloy surfaces machined under various lubricating/cooling conditions both at conventional and micro-level and development of correlation with the machined part service life.
- Development and implementing of environmentally friendly lubricating/cooling strategies in machining in order to increase the tool life and machined surface integrity.

The research activities have been carried out in the framework of European projects, Italian government-funded programs, and research contracts with Italian and European manufacturing companies.

PUBLICATIONS

The main results achieved in the researches conducted by Stefania Bruschi have represented the object of more than **190 Scopus-indexed scientific publications**, of which **92 in IF journals**. The table below reports the total number of publications in peer reviewed journals, total number of citations, and h-index value (source: Scopus database; data collected on February 27th, 2019).

Database	*# Articles*	*# Citations*	*h-index*
SCOPUS	197	2144	24

OTHER ACTIVITIES

Editorship

- **Member of the Editorial Board** of the Journal of Materials Processing Technology (since 2012)
- **Guest Editor** of the Special Issue on Hot Stamping of the Journal of Materials Processing Technology (2015).

Membership

since 2016 **Fellow member of CIRP** – The International Academy for Production Engineering
since 2006 Member of the Board of Directors of the Italian Association for Manufacturing Technologies
since 2018 Director of the Italian Association for Manufacturing Technologies Academy

International Scientific Committees

- International Conference on Technology of Plasticity (ICTP), (2008-currently)
- Metal Forming Conference, (2010-currently)
- Shemet Conference, (2010-currently)
- Conference on Tribology in Manufacturing Processes (ICTMP), (2012-currently)
- Member of the Advisory Board of the German Cluster of Excellence "Merge – Merge Technologies for Multifunctional Lightweight Structures" (2013-currently)
- Numiform Conference 2019
- Track Chair of SME NAMRC 47

International Evaluation Panels

- Irish Research Council (Ireland)
- Portuguese Foundation of the Science and Technology (Portugal)
- Dutch foundation (The Netherlands)
- Technical University of Denmark (Denmark)

Padova, February 27th, 2019
Stefania Bruschi