

Vinicio MAGI is Full Professor in Mechanical Engineering at the University of Basilicata, Italy. On 1983 he was appointed Assistant Professor at the University of Bari, on 1992 he joined the School of Engineering at the University of Reggio Calabria as Associate Professor and on 2000 he was promoted to Full Professor at the University of Basilicata. From 1983 to 1997 he was appointed Visiting Scientist in the Dept. of Mech. and Aerospace Eng. at Princeton University (NJ-USA). On 1994 and 1995 he also worked as Visiting Professor in the Dept. of Mech. Eng. at the University of Minnesota (MN-USA). From 1997 to 2013 he has been Visiting Professor in the School of Mech. Eng. at Purdue University (IN-USA). He has been an Associate Researcher of the Dept. of Energy (USA) program on DISC (Direct-Injection Stratified-Charge) engines. Currently he is Visiting Professor in the Dept. of Mechanical Engineering at the San Diego State University (CA-USA) and Faculty Advisor of the SAE Collegiate Chapter at the University of Basilicata. He is member of the Italian Thermotechnical Society (ATI). He has been the Principal Investigator of several research grants, including the MIUR grant 5433/3, PON 2000-2006 and the MIUR grant 1986/36, PON 2000-2006. He has also been Coordinator of the European Galileo Program 2005/06 "Optimisation Aerodynamique a l'Aide d'Algorithmes Genetiques et de Modeles d'Ordre Reduit". He has played a significant role in seeking funding support from the US Department of Defence, the National Science Foundation, the Indiana 21st Century Fund, ArvinMeritor Corporation, Caterpillar, John Deere, the US Navy and Purdue Research Foundation during his Visiting Professor appointment at Purdue. He is senior author and co-author of over 180 papers. The overall focus of his research activity is on understanding the physical processes related to fluid flow, heat and mass transfer, energy conversion and combustion in thermal system design and optimizing such processes to improve performance in terms of higher efficiency, reduced emissions and lower costs. On 2012, he has been entitled "Special Visiting Researcher" by the Brazilian Research National Council under the "Science Without Borders" program as a senior foreign researcher recognized internationally as leadership in the priority area of "Mechanical and Thermal Engineering". He has been the Principal Investigator of the project "A Numerical Analysis of Hydrogen Underexpanded Jets" within the 'Distributed European Computing Initiative (DECI)', by the PRACE-2IP, receiving funding from the European Community's Seventh Framework Programme (FP7/2007-2013) under grant agreement n. RI-283493.