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PROF. Annarita Viggiano

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SCIENTIFIC CURRICULUM VITAE:

Annarita Viggiano has attained the national scientific qualification as Associate Professor and has been Assistant Professor at the University of Basilicata since October 2006. Graduated with honours in Environmental Engineering at the University of Basilicata, Italy, she worked as research fellow at "Centro Ricerche Fiat", Orbassano (TO), Italy. She got her Ph.D. in Mechanical Engineering at the Polytechnic-University of Bari, Italy. She was post-doctoral researcher at the Polytechnic-University of Bari. Her research activity is focused on CFD for the study of non-reacting and reacting flows of engineering interest. She has dealt with: DNS simulations of non-premixed flames; optimization of multidimensional DNS codes for the simulation of non-reacting and reacting flows; RANS simulations of HCCI engines fuelled by ethanol; development and analysis of simplified kinetic reaction mechanisms for fuel oxidation; implementation and validation of coherent flamelet models in three-dimensional academic and commercial RANS codes for the study of premixed charge SI engines; RANS codes for the study of fluid-structure interactions; development of QMD and DPD codes; implementation of OpenMP and MPI parallel codes for HPC. She is/was the principal investigator or co-investigator of several research projects. She is the instructor of the courses "Computational Thermo-Fluid Dynamics for Machinery" (graduate level) and "Gas-dynamic and Propulsion" (graduate level) at the School of Engineering of the University of Basilicata, Italy. She is author and co-author of several scientific papers, published in international journals, books and in the proceedings of international and national conferences.

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