Curriculum Vitae

Alessandro MAURO

B.Sc. in 2004 with Honors in Mechanical Engineering, M.Sc. in 2006 with Honors in Mechanical Engineering for the Energy and the Environment and Ph.D. in 2009 in Engineering of Mechanical Systems at the University of Napoli Federico II, Napoli, Italy. Since 2009, he has been working as Research Fellow, as Lecturer and then as Professor of Applied Thermodynamics and Thermal Science at the University of Napoli "Parthenope". He is Technical Manager of LaTEC (Laboratory of Thermo-fluid dynamics, Energy, and HVAC systems) within the Department of Engineering of the University of Napoli "Parthenope". He has been Visiting Scientist at MIT and Visiting Researcher at Swansea University. His scientific research activities are mainly focused on the study of heat and mass transport phenomena in porous media and free fluids, with particular attention to innovative energy conversion systems and to renewable energy sources applications, through both theoretical and experimental analysis. He has developed an efficient version of the FEM based Artificial Compressibility Characteristic Based Split algorithm for the solution of convective flows. Prof. Mauro has started and developed a multidisciplinary scientific collaboration with an international medical group and has applied his knowledge on thermo fluid dynamics in the bioengineering field. Prof. Mauro is author of more than 80 scientific publications including papers in international journals, proceedings of international conferences, books and chapters of international books.