

CURRICULUM VITAE:

Name: Bernardo

Surname: Buonomo



Personal Information

Affiliation: Dipartimento di Ingegneria, Università degli Studi della Campania “Luigi Vanvitelli”, via Roma 29, 81031 Aversa (CE).

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Job Position: Fixed-term Assistant Professor (L. 240/2010 -articolo 24, comma 3-lettera B), Dipartimento di Ingegneria, Università degli Studi della Campania “Luigi Vanvitelli”

Title: Ph. Doctorate in Aerospace Engineering at Seconda Università Degli Studi di Napoli.

Professional Experience

February 2006 – November 2019: Technical Researcher at Università degli Studi della Campania Luigi Vanvitelli.

Educational Background

- He graduated summa cum laude in Aerospace Engineering at the Faculty of Engineering of the Seconda Università degli Studi di Napoli on March 15th, 2001, having discussed a thesis with the title "Numerical investigation on natural convection in channel-chimney systems".
- He obtained the title of Ph. Doctorate in Aerospace Engineering on March 5th, 2003 with the thesis "Numerical investigation on natural convection in open cavity".
- National Scientific Qualification (ASN) for Associate Professor in the sector 09/C2 (ING/IND-10) “Thermal Engineering and Industrial Energy Systems” - validity for 03-02-2014 to 03-02-2020
- National Scientific Qualification (ASN) for Associate Professor in the sector 09/C2 (ING/IND-10) “Thermal Engineering and Industrial Energy Systems” - validity for 08-10-2018 to 08-10-2024

Teaching and Research Activities

Teaching:

- course of Heat Transfer at Università degli Studi di Napoli Federico II in 2004
- course of Thermal Control of Electronic Systems at Università degli Studi della Campania “Luigi Vanvitelli” from 2014 to 2019
- course of “Convective Heat Transfer in porous media and numerical methods” at Dipartimento di Ingegneria dell’Università degli Studi della Campania “Luigi Vanvitelli” , within the Ph.D. in Industrial Engineering and Information from 2018 to 2019

Research Activities:

The research activities are in Heat Transfer and Applied Thermo-Fluid Dynamics. The main areas of his research activities are: natural and mixed convection for the thermal control of electronic systems, analysis of active and passive solar systems, thermodynamics analysis of natural convection in open-ended cavities, analysis of heat transfer in porous media, microchannels, nanofluids and in phase change materials (PCM), Heat transfer in vehicles and aircraft, Sensible and latent thermal energy storage systems analysis.

He is the author or co-author of 98 papers registered in SCOPUS, with a total of 529 citations from 2005 to 2020. His h-index is equal to 12 (12 without self citations). In Scholar Google there are 740 citations of his documents and the h-index is 14 and his i10-index is 18 from 2005 to 2020.

He has been tutor of many theoretical, numerical and experimental thesis in Thermal Sciences and Heat Transfer.

Member of Sun Energy Europe Srl, an Academic Spin-off company from Università degli Studi della Campania “Luigi Vanvitelli” which was established on June 29, 2015.

Experience in Scientific Collaborations

International research collaborations with:

Professor Guy Lauriat, Université Paris-Est Marné la Vallée, France;

Professor Moghtada Mobedi, Shizuoka University, Japan

Professor Mikhail Sheremet, Tomsk University, Russian Federation;

Professor Alina Minea, Technical University GH. Asachi Iasi, Romania.

Professor Umavathi, Jawali C., Gulbarga University, Gulbarga, India.

International experience:

Member of Local Organizing Committee of:

- 5th International Conference of Vortex Flows and Vortex Models, Caserta, Italy, 8-10 November, 2010.
- 1st AIGE-IIETA International Conference and 10th AIGE Conference, Napoli, Italy, 9-10 June, 2016.
- 7th International Symposium on Advances in Computational Heat Transfer, CHT-17, Napoli, Italy, from 28 May to 1 June, 2017.
- 4th Working Group Meetings Workshop on Nanofluids in Energy Systems Strategic Workshop, Napoli, Italy, 28-29 May 2018.
- Guest Editor of Entropy (ISSN 1099-4300) for the Special Issue "Entropy Production in Turbulent Flow". https://www.mdpi.com/journal/entropy/special_issues/Entropy_Production
- Guest Editor of Entropy (ISSN 1099-4300) for the Special Issue "Entropy Generation Minimization II". https://www.mdpi.com/journal/entropy/special_issues/Entropy_Generation_Minimization
- Guest Editor of Energies (ISSN 1996-1073) for the Special Issue "Advances in Heat Transfer Enhancement". https://www.mdpi.com/journal/energies/special_issues/Advances_Heat_Transfer_Enhancement.