

Preface

The 2020 UIT (Italian Union of Thermo-Fluid Dynamics) Seminar on Heat Transfer, hereafter referred as 2020 UIT-HTS, was organized by the Department of Civil and Mechanical Engineering of the University of Cassino (Italy), in collaboration with the UIT, on September 28th 2020.

The 2020 UIT-HTS was organized by the Organizing Committee of the 38th UIT Heat Transfer Conference, initially scheduled for June 22nd-24th 2020 at the Castello di Gaeta, Italy. Considering the criticalities induced by the spread of COVID-19, difficulties in travelling, social distancing, and strict rules to follow, the Organizing Committee made the difficult decision to postpone 38th UIT Heat Transfer Conference, while organizing the 2020 UIT-HTS event to give the opportunity to the authors to introduce their valuable papers in 7 online parallel technical sessions. The 2020 UIT-HTS event was completely free of charge and was organized virtually using the platform Google Meet. A total of 90 abstracts were originally submitted to the 38th UIT Heat Transfer Conference and the 2020 UIT-HTS offered the opportunity to researchers to share their papers through digital platform without any restriction.

The 2020 UIT-HTS program scheduled a plenary lecture given by Prof. Paolo Vigo from the University of Naples “Parthenope” while each author confined his talk in 10 minutes, followed by questions and answers. The majority of participants were from Italy, with a total number of about 100 researchers connected to the 2020 UIT-HTS event. The 2020 UIT-HTS was a useful occasion to stimulate discussion, further the understanding of heat transfer and related phenomena, present the state-of-the-art of some topics, discuss emerging trends and promote collaborations. The Organizing Committee hope that the event results constituted significant contribution to the knowledge in the following fields: computational fluid dynamic and heat transfer; conduction, radiation and thermophysical properties; heat and mass transfer in energy systems and nuclear plants; heat transfer in porous media; measurement techniques for heat and mass transfer, micro and nano scale thermo-fluid dynamics; natural, forced and mixed convection; and two-phase/multiphase fluid dynamics, heat transfer and interface phenomena.

A special tank to UIT, international advisory committee, local organizing committee and all the participants.

With Kind Regards

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Marco Dell’Isola, Università degli Studi di Cassino e del Lazio Meridionale, Italy

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