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International Journal of Numerical Methods for Heat and Fluid Flow

Selected papers from ThermaComp 2016, July 6-8, 2016, Georgia Tech, Atlanta, USA

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International Journal of Numerical Methods for Heat and Fluid Flow

Special Issue: Selected papers from ThermaComp 2016, July 6-8, 2016, Georgia Tech, Atlanta, USA.

Editorial

This special issue collects selected papers presented at the Fourth International Conference on Computational Methods for Thermal Problems (ThermaComp 2016) held at Georgia Tech, Atlanta, USA, July 6-8, 2016. ThermaComp series (www.thermacomp.com) aims at bringing together researchers interested in fundamental numerical methods for heat and fluid flow and those who use such methods to solve complex, real life applications. This special issue includes some of the work presented by invited lecturers, as well as other leading scientists in the field.

We thank the authors for accepting our invitation to contribute their interesting work to this special issue. We are grateful to Professor R.W. Lewis for continuing to support ThermaComp and giving us the opportunity to edit this special issue.

Y. Joshi
G.W. Woodruff School of Mechanical Engineering, Georgia Institute of Technology Atlanta, Georgia.

N. Massarotti
Dipartimento di Ingegneria, Università degli Studi di Napoli "Parthenope", Napoli, Italy.

P. Nithiarasu
Civil and Computational Engineering Centre, School of Engineering, Swansea University.

[1] J. Summers, G. de Boer, A. Johns, N. Delbosc, D. Burdett, M. Tatchell-Evans, R. Baudot; Three computational methods for analysing thermal airflow distributions in the cooling of data centers.

[2] K.Fushinobu, M.Kato, A.Henry, S.Graham, D.M. Doan; Molecular dynamics simulation of oxygen transport characteristics in the electrolyte membrane of PEMFC.

[3] A. Mauro, M.R. Romano, V. Romano, P. Nithiarasu; Suprachoroidal shunts for treatment of glaucoma: a comparison based on numerical simulations

[4] C. Pacheco, H.R.B. Orlande, M. Colaco, G.S. Dulikravich; State Estimation Problems in PRF-Shift Magnetic Resonance Thermometry.

[5] G. Cortellessa; F. Arpino; S. Di Fraia; M. Scungio; Two-phase Explicit CBS Procedure For Compressible Viscous Flow Transport In Porous Materials.

[6] V. Hatić, B. Mavrič, B. Šarler; Simulation of a macrosegregation benchmark with a meshless diffuse approximate method.

[7] A.Bhargav, Y. Fulpagare, Y.Joshi; Rack Level Transient CFD Modeling of Data Center.

[8] Ranganayakulu Chennu; Numerical Analysis of Compact Plate –Fin Heat Exchanges for Aerospace Applications.

[9] S. Cordiner, A. Manni, V. Mulone, V.Rocco; Biomass pyrolysis modeling of systems at laboratory scale with experimental validation.

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[10] A. Vadakkepatt, S.R. Mathur, J.Y. Murthy; Efficient automatic discrete adjoint sensitivity computation for topology optimization - Heat conduction applications.

[11] S. Di Fraia; N. Massarotti; P. Nithiarsu; Modelling electro-osmotic flow in porous media.

[12] D. Piazzullo, M. Costa, L. Allocca, A. Montanaro, V. Rocco; Schlieren and Mie Scattering Techniques for the ECN “Spray G” Characterization and 3D CFD Model Validation.

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