

Graduate Students, Academia Researchers, Industry & Government Practicing Engineers, Project Managers and Experts

We are pleased to invite you to attend

CFD **IMPACT** 2016 CONFERENCE



Israel **M**ultidisciplinary **P**arallel **A**dvanced **C**omputational **T**urbulence Program | June 28, 2016

D. Dan and Betty Kahn Faculty of Mechanical Engineering Building
Technion - Israel Institute of Technology

08:15-09:00	Gathering and Refreshments
09:00-10:00	Opening Session
09:00-09:10	Opening Remarks
09:10-10:00	Keynote Lecture <i>Parallel High-Order Finite-Volume Methods with Adaptive Mesh Refinement for Physically-Complex Flows</i> Clinton Groth , Institute for Aerospace Studies, University of Toronto, Ontario, Canada
10:00-10:20	Coffee Break
10:20-11:50	1st Session - High-Order Numerical Methods and LES Applications
10:20-10:50	<i>High Fidelity Large Eddy Simulation of Rotorcraft Aerodynamics using a Multiblock Immersed Boundary Method</i> Yann Delorme , Faculty of Mechanical Engineering, Technion, Israel
10:50-11:20	<i>Development and Application of a High-Order Flux Reconstruction Compressible Navier-Stokes Solver on Unstructured Grids</i> Kunal Puri , Faculty of Mechanical Engineering, Technion, Israel
11:20-11:50	<i>Roll Torque Prediction in Solid Rocket Motors using High-Order Finite-Volume Numerical Scheme</i> Hod Wirzberger, Oren Peles , IMI SYSTEMS, Israel and Eli Turkel , School of Mathematics, Tel-Aviv University, Israel
11:50-12:10	Coffee Break
12:10-13:40	2nd Session - LES applications, Hybrid RANS/LES, and Multiphase Flow
12:10-12:40	<i>Aero-Optic Predictions at Transonic Flow Using Compressible Large Eddies Simulations</i> Eran Arad and Mickey Weidenfeld , Rafael, Israel
12:40-13:10	<i>A New Hybrid RANS/LES Method Applied to Turbulent Channel Flow</i> Zvi Hantsis , Faculty of Mechanical Engineering, Technion, Israel
13:10-13:40	<i>On The Application of A High-Order Positivity-Preserving Limiter for Compressible Multicomponent and Multiphase Flow</i> Ory Haimovich , Faculty of Mechanical Engineering, Technion, Israel
13:40-14:30	Lunch Break
14:30-16:00	3rd Session - High-Performance Computing and CFD
14:30-15:00	<i>Introduction to High-Performance Parallel Computing Technologies</i> Mark Silberstein , Faculty of Electrical Engineering, Technion, Israel
15:00-15:30	<i>Collaborating CPU and GPU for Large-Scale High-Order Cfd Simulations with Complex Grids on the Tianhe-1A Supercomputer</i> Chuanfu Xu , Computer College, National University of Defense Technology, Changsha, China and Yonggang Che , Science and Technology on Parallel and Distributed Processing Laboratory, National University of Defense Technology, Changsha, China
15:30-16:00	<i>Scaling a Combustion Simulation Application to the Tianhe-2 Supercomputer</i> Yonggang Che , Science and Technology on Parallel and Distributed Processing Laboratory, National University of Defense Technology, Changsha, China and Chuanfu XU , Computer College, National University of Defense Technology, Changsha, China
16:00-16:30	Final Remarks, Discussions, Tour of new Computational Teaching Lab, Adjourn

Participation is free but requires registration!

Only 50 seats are available !

Register now to secure your seat!

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