



Monday 18<sup>th</sup> December 2017

9:20 - 9:45	Opening
9:45 - 10:30	<b>João Borges de Sousa</b> , University of Porto, FEUP <i>Data challenges in multi-vehicle coordination for ocean observation</i>
10:30 - 11:00	Coffee Break
11:00 - 12:30	<b>Patrick Heimbach</b> , University of Texas at Austin, USA <i>Ocean state and parameter estimation in support of an Atlantic Ocean Observing System</i>
12:45 - 14:00	Lunch
14:00 - 15:00	<b>Carla Gomes</b> , Cornell University, USA <i>Computational Sustainability</i>
15:00 - 15:30	<b>Gianmaria Sannino</b> , ENEA, Italy <i>A very high-resolution integrated Mediterranean and Black Sea ocean circulation model</i>
15:30 - 16:00	<b>Pedro Jorge</b> , INESC TEC <i>GeoLIBS: Advanced spectroscopy for real-time identification, classification and quantification of complex minerals.</i>
16:00 - 16:30	Coffee Break
16:30 - 18:00	<b>Vipin Kumar</b> , University of Minnesota, USA <i>Big Data in Climate: Opportunities and Challenges for Machine Learning</i>

Tuesday 19<sup>th</sup> December 2017

9:00 - 10:30	<b>Chris Hill</b> , MIT, USA <i>Modeling the Atlantic ocean at internal wave admitting resolutions</i>
10:30 - 11:00	Coffee Break
11:00 - 12:30	<b>Stefano Castruccio</b> , University of Notre Dame, USA <i>Stochastic Approximations of Climate Modes: How can Statistics Save Computational and Storage Resources</i>
12:30 - 14:00	Lunch
14:00 - 15:30	<b>Omar Ghattas</b> , University of Texas at Austin, USA <i>Learning from data through the lens of models: Scalable algorithms for Bayesian inverse problems</i>
15:30 - 16:00	<b>Fernando Lima</b> , CIBIO <i>Climate change and biogeographic patterns along the European coast: a multi-scale and multidisciplinary approach</i>
16:00 - 16:30	Coffee Break
16:30 - 17:15	<b>Manuel Heitor</b> , Minister for Science, Technology and Higher Education AIR Center initiative
17:15 - 18:00	<i>Panel Session on the AIR Center Initiative</i> Moderator: <b>José Manuel Mendonça</b> , INESC TEC

Wednesday 20<sup>th</sup> December 2017

9:00 - 9:45	<b>Arvind</b> , MIT, USA <i>An accelerator to aggregate key-value pairs for graph analytics using NAND flash storage</i>
9:45 - 10:30	<b>Ignacio Lopez</b> , CESGA, Galicia, Spain <i>Advance Computing in Galicia for a wide R&amp;D&amp;I community</i>
10:30 - 11:00	Coffee Break
11:00 - 12:30	<b>Bill R. Magro</b> , Intel@Urbana-Champaign <i>Toward Exascale: Key Challenges and Requirements</i>
12:45 - 14:00	Lunch
14:00 - 14:30	<b>Orfeu Bertolami</b> , University of Porto, FCUP <i>On Small Satellites for Oceanography</i>
14:30 - 15:00	<b>Bruno Vilaça dos Anjos</b> , IPMA <i>IP Sentinel – A national Source of Satellite Data</i>
15:00 - 15:30	<b>Eduardo Silva</b> , ISEP/INESC TEC <i>Localization and Mapping in dynamic underwater environments</i>
15:30 - 16:00	<b>José da Silva</b> , University of Porto, FCUP <i>Internal Solitary Waves in the Ocean: a synergistic study with satellite ocean sensing, in situ measurements and advanced numerical simulations</i>
16:00 - 16:30	Coffee Break
16:30 - 17:00	<b>Pedro Camanho</b> , University of Porto, FEUP <i>The role of Computational Mechanics in the development of a new generation of advanced materials and structures for space applications</i>
17:00 - 17:30	<b>Nuno Catarino</b> , Deimos Engenharia <i>Earth Observation data systems in support of the Sustainable Development Goals</i>
17:30 - 18:00	<b>Miguel Bessa</b> , TU Delft <i>Design of ultra-thin composite structures by Bayesian machine learning and genetic optimization</i>

## Venue:

Auditorium Professor Ferreira da Silva, FC6  
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