Computing Insight UK 2019 "Computing the Future"

Thursday 5 and Friday 6 December 2019

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Main Programme Session Themes

Session 1: Cloud Computing Today
Session 2: Software Development Today
Session 3: Data Science - Convergence of AI and HPC

COMPUTING INSIGHT UK 2019 Computing The Future	UK Research and Innovation
5-6 DECEMBER 2019 MANCHESTER, UK	

DAY 1 - Thursday 5 December 2019

TIME	MAIN PROGRAMME	BREAKOUT SESSIONS
From 08:30	REGISTRATION OPEN (Main Foyer) EXHIBITION OPEN (Gallery) RESEARCH C	ENTRE ZONE OPEN (Main Foyer)
09:15 - 09:30	Welcome Tom Griffin (Director, Scientific Computing, STFC)	
09:30 - 10:00	Movement without Disruption - or - How to Move Your Multi-Million Pound HPC Cluster without Your Users (Hardly) Knowing Cliff Addison (University of Liverpool)	
10:00 - 10:30	JASMIN and the Evolution of Cloud-Hosted Data Analytics Platforms for the Environmental Sciences Phil Kershaw (JASMIN)	
10:30 - 11:00	Cagliari Airport Al in Fog to Cloud HPC Jens Jensen (STFC)	Power Al User Group 10:00 - 11:30
11:00 - 11:30	REFRESHMENTS	Spectrum Scale User Group
11:30 - 12:00	Research Software Engineering Impact Showcase James Grant (University of Bath)	11:30 - 13:00
12:00 - 12:30	A session consisiting of a series of short talks from the RSE community using case studies to highlight impact followed by a panel discussion on how	
12:30 - 13:00	we can measure and promote the capability of RSEs to produce impact. Presentations from James Grant (University of Bath), Dave Meredith (STFC) and Andy Turner (EPCC)	
12:30 - 14:30	LUNCH	
14:30 - 15:00	Machine Learning as a Cheaper Alternative to HPC Approaches in Science Jeyan Thiyagalingam (STFC)	Utilising the Open Source OpenFlightHPC Project for
15:00 - 15:30	Linking National Imaging Facilities with HPC and Research Software Engineering centres – and their use on a Big Data problem Martin Turner (University of Manchester)	HPC Workflow Design and Implementation
15:30 - 16:15	Research Centre Zone - Lightning Talks Supercomputing Wales, DiRAC, ARCHER, Cirrus, ICHEC, N8CIR, the Materials Modelling Hub, Isambard, JASMIN	14:00 - 16:00
16:15 - 17:00	REFRESHMENTS	
17:00 - 18:00	Application Performance on Multi-Core Processors: Performance Analysis of the AMD EPYC Rome Processors Martyn Guest (ARCCA, Cardiff University)	
18:00 - 19:00	Keynote Presentation Debora Sijacki (University of Cambridge, Institute of Astronomy) Winner of the 2019 F "Towards next generation computing in cosmological simulations: prosp	
19:00 - 23:00	CIUK 2019 CONFERENCE PARTY 7pm - Late Entry strictly with a CIUK wristband! Collect your wristband from the registration desk	Revolución de Cuba

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Main Programme Session Themes

Session 4: Hardware Towards Exascale
Session 5: Software Development Towards Exascale
Session 6: Quantum Computing

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DAY 2 - Friday 6 December 2019

TIME	MAIN PROGRAMME	BREAKOUT SESSIONS			
From 08:30 REGISTRATION OPEN (Main Foyer) EXHIBITION OPEN (Gallery) RESEARCH CENTRE ZONE OPEN (Main Foyer)					
09:30 - 10:00	NVMe over PCIe Fabrics Using Device Lending Jonas Markussen (Dolphin Interconnect Solutions)				
10:00 - 10:30	On the Road to ExaScale - New Storage Technologies to Support ExaData Torben Kling Petersen (Cray)				
10:30 - 11:00	The Jacky Pallas Memorial Presentation On the Structure of Lipid-Based Nanoparticles for Drug Delivery Demi Pink (King's College London)				
11:00 - 11:30	REFRESHMENTS				
11:30 - 12:00	Readying an Industrial CFD Code for Pre-Exascale Yvan Fournier (EDF)	NVIDIA Deep Learning Institute "Fundamentals of Accelerated Computing with CUDA C/C++" The CUDA computing platform enables the acceleration of CPU-only applications to run on the world?			
12:00 - 12:30	Improving Application Performance: Mellanox's Collaboration with UK HPC Richard Graham (Mellanox Technologies)				
12:30 - 13:00	Towards Understanding Exascale IO needs – insights from LASSi on ARCHER Karthee Sivalingam (CRAY)	fastest massively parallel GPUs. Upon completion of this day-long workshop,			
13:00 - 14:30	LUNCH	attendees will be able to accelerate and optimize existing C/C++ CPU-only applications using the most essential CUDA tools and techniques whilst achieving an industry-recognised certification (subject to passing the assesment)			
14:30 - 15:00	The UK e-Infrastructure Roadmap Mark Thomson (STFC)				
15:00 - 15:30	Quantum Computing for the 21st Century Kate Marshall (IBM)				
15:30 - 16:00	Quantum Computing Ambitions from University of Liverpool Michael Bane (University of Liverpool) and Shane Rigby (Atos)				
16:00	CIUK 2019 CLOSES				