

Centre for High Performance Computing 2024 National Conference

Monday 02 December 2024

HPC Technology: 1 - BICC.G-D1 - D1 Tsitsikamma (11:15-12:45)

-Conveners: Chair: Mr Faheem Essack

time	[id] title	presenter
11:15	[204] Digital Twins for Energy Efficient and Sustainable Datacenters (HPE)	Mr DYKES, Tim
11:35	[205] AI next trends: the critical HW and SW marriage (Intel)	Mr RIVIERA, Walter
11:55	[206] Dell AI Factory (Dell)	Mr VISAGIE, Jacques
12:15	[207] Pinnacle Presentation (TBC)	Mr CRIGHTON, Roger
12:35	[235] Q&A	Q&A

HPC Technology: 2 - BICC.G-D1 - D1 Tsitsikamma (13:30-15:00)

-Conveners: Chair: Mr Hannes Steyn

time	[id] title	presenter
13:30	[200] H3C Presentation (TBC)	Mr CILLIERS, Christo
13:50	[201] Huawei Presentation (TBC)	Mr MAPHOSA, Collen
14:10	[202] The Data Platform to Accelerate HPC Deployments (VAST Data)	Mr ORMISTON, Kim
14:30	[203] NVIDIA Accelerated Computing (NVIDIA)	Ms DUKE, Belinda Leigh
14:50	[212] Q&A	Q&A

Tuesday 03 December 2024

HPC Technology: CHPC Cloud - BICC.G-D1 - D1 Tsitsikamma (11:00-12:30)

-Conveners: Chair: Ms Dorah Thobye

time	[id] title	presenter
11:00	[190] Bridging the Digital Divide with Cloud-Hosted Geo-Location Spectrum Databases	MFUPE*, Luzango
11:20	[123] Image based analysis and crop prediction using smartphone.	MDLETSHE*, Lindokuhle
11:40	[134] OpenStack Adoption at CHPC: Advancing AFIS and Emerging DevOps Projects Through Scalable Cloud Solutions	BOODHRAJ*, Kirodh
12:00	[191] Infrastructure consideration for Science Engagement Information Management Systems on CHPC	MATYILA*, Muzi
12:20	[228] Q&A	

HPC Technology: Education BoF - BICC.G-D1 - D1 Tsitsikamma (13:30-15:00)

-Conveners: Chair: Mr Bryan Johnston

time	[id] title	presenter
13:30	[252] Welcome and Introduction	JOHNSTON, Bryan
13:35	[253] Overview of Wits HPC	
13:45	[254] Overview of new local HPC course	
13:55	[255] Are You Doing Science?	LOFSTEAD, Jay
14:35	[256] ® Onboarding new first time HPC users	POOLE, John
14:45	[257] ® SIGHPC Committee	
14:55	[258] SIGHPC Edu	

HPC Technology: Storage & IO - BICC.G-D1 - D1 Tsitsikamma (15:30-17:00)

-Conveners: Kevin Colville; Jay Lofstead

time	[id] title	presenter
15:30	[171] Reducing Data Movement Through Derived Quantity Generation	Dr LOFSTEAD*, Jay
15:50	[172] Characterizing the I/O Performance of HPC Platforms Using the I/O Performance Evaluation Suite	Dr TEYLO*, Luan
16:10	[174] ® I/O Insights and Recommendations for All	BEZ, Jean Luca
16:30	[173] ® XIO: Towards eXplainable I/O using multi-layer monitoring solution for HPC Systems.	HARIHARAN DEVARAJAN, Hari
16:50	[221] Q&A	

Wednesday 04 December 2024

HPC Technology - BICC.G-D1 - D1 Tsitsikamma (11:00-12:30)

-Conveners: Chair: Dr Oz Parchment

time	[id] title	presenter
11:00	[33] Empowering Southern Africa's Researchers: Overcoming HPC Barriers with MATLAB Tools	Dr ROSSI, Marco
11:40	[114] Sustainable AI Infrastructure: A Mandatory Pathway for Supercomputing Centres	HÖB, Maximilian

HPC Technology: HPC Ecosystems BoF - BICC.G-D1 - D1 Tsitsikamma (13:30-15:00)

-Conveners: Chair: Mr Bryan Johnston

time	[id] title	presenter
13:30	[250] HPC Ecosystems BoF	JOHNSTON, Coordinator: Mr Bryan