Day 0 28 Feb 2022 (Monday)	
Time/Date (in SGT)	**Altair PBS User Group Meeting** Altair® PBS Professional® is the market leader in comprehensive, secure workload management for high-performance computing and cloud environments. A rapidly growing number of organisations in Asia have adopted PBS Professional technology, and Asia now joins the US as a PBS Professional User Group meeting hub. Altair hosts the PBS Professional User Group Meeting with our sponsor, AMO, and in conjunction with the Supercomputing Asia 2022 hybrid event, physically based in Singapore from 1 to 3 March 2022. We invite you to join Altair and AMD virtually on 28 February 2022 to hear about PBS Professional's latest features and solutions, catch up on Altair activities and partnerships, and network with your peers. PBS Professional User Group meetings are a two-way channel. We learn as much from you as you do from us, and we've made product improvements based on your feedback. Now with a critical mass of PBS Professional users in Asia, you have the opportunity to tell us what features will help your business. This event is by registration only and has limited capacity. Register today to join the PBS Professional User Group Meeting on 28 February at 9:00 by filling out the form on this page https://web.altair.com/altair-pbs-user-group-scasia-2022
0900 - 123(	

Day 1
1 Mar 2022 (Tuesday)

Time/Date (in SGT)	[Suntec Exhibition Hall 404]
0800 - 0830	**Registration**
0830 - 0900	
0900 - 0930	**SCA22 Welcome Address** by Mr Peter Ho, Chairman, NSCC Steering Committee
0930 - 1000	**SCA22 Opening Address** by Guest-of-Honour Dr Janil Puthucheary, Senior Minister of State, Ministry of Communications and Information & Ministry of Health, Minister-in-charge of GovTech Singapore
1000 - 1030	**SCA22 Signing Ceremonies** **Opening Keynotes** **The SKA Observatory: meeting the data challenge for next-generation radio astronomy** by Dr Sarah Pearce, SKA-Low Telescope Director, SKA Observatory (SKAO)
1030 - 1100	**Digital Transformation of the Manufacturing Process and Smart Design in the Society 5.0 Era Realized on the Supercomputer "Fugaku"**
1100 - 1115	Break
1115 - 1140	Industry Plenary **The Evolution of Data Center Compute and The Exascale Era** by Mr Forrest Norrod, Senior Vice President and General Manager, Data Center and Embedded Solutions Business Group, AMD
1140 - 1205	Industry Plenary **Unlock the power of the Exascale to all** by Ms Agnès Boudot , SVP, Head of HPC & Quantum Global Business Line, Atos
1205 - 1230	Industry Plenary **The future of HPC is looking a lot like AI/ML** by Dr Barry Bolding, GTM Lead for HPC, Autonomous and Quantum Computing, Amazon Web Services
1230 - 1300	**Lunch**
1300 - 1330	

	BREAKOUT 1 **HPC Centre Leaders Forum** **Track Chair:** **Mr Mark Stickells**	**BREAKOUT 2** **Supercomputing Frontiers Asia (SCFA)** **Track Co-Chairs:** **Dr Michael Sullivan** **Prof Dhabaleswar K. (DK) Panda**	**BREAKOUT 3** **APAC HPC-AI Competition 2022 (HPCAIAC)** **Next Generation Of Supercomputing - Cloud Native SuperComputing** **Track Chair:** **Mr Song Qingchun**	**BREAKOUT 4** **Healthcare and Biomedical** **Track Co-Chairs:** **Dr Kenneth Ban** **Dr Nicolas Bertin**	**BREAKOUT 5** **Industry** **Track Chair:** **Dr Jernej Zidar**
1330 - 1355	13:50 - 14:10 **HPC/AI Services at KAUST** by Dr Jysoo Lee, Facilities Director of Research Computing / KAUST (King Abdullah University of Science and Technology)	13:30 - 13:40 **Opening Address** by Prof Dhabaleswar K.(DK) Panda, Professor and University Distinguished Scholar, Ohio State University	14:00 - 14:05 **Opening Address** by Mr Qingchun Song, HPC-AI Advisory Council	13:30 - 13:35 **Opening Address** by Dr Kenneth Ban, Programme Director (Health/Biomedical & Life Sciences), National Supercomputing Centre (NSCC) Singapore	**KoolLogix, Green Data Center Cooling Solution** by Dr Seri Lee, Chief Technology Officer, KoolLogix Pte.Ltd
1355 - 1420	14:10 - 14:30 **New Paradigms for High Performance Computing for Data Services** by Prof Sean Smith, Director, National Computational Infrastructure (NCI), The Australian National University (ANU), Australia	13:40 - 14:10 **High performance parallel LOBPCG method for large Hamiltonian derived from Hubbard model on multi-GPU systems** by Susumu Yamada, Toshiyuki Imamura and Masahiko Machida, Japan	14:05 - 14:30 **Exascale by Co-Design Architecture** by Mr Gilad Shainer, HPC-AI Advisory Council	13:35 - 14:10 **Real-time Virus Surveillance at Pandemic Scale** by Dr Sebastian Maurer-Stroh, Executive Director, Bioinformatics Institute (BII), A*STAR	**New Challenges on Fugaku Operation and Services** by Dr Fumiyoshi Shoji, Operations and Computer Technologies Division, RIKEN
1420 - 1445	14:30 - 14:50 **NSCC** by A/Prof Tan Tin Wee, Chief Executive, National Supercomputing Centre (NSCC) Singapore	14:10 - 14:40 **Vapor condensation under electric field: A study using molecular dynamics simulation** by Pengyu Wang and Zhong Chen, Singapore	14:30 - 15:00 **Designing High-Performance and Scalable Middlewar for HPC, AI, and Data Sciences** by Prof Dhabaleswar K (DK) Panda, Professor and University Distinguished Scholar, Ohio State University	14:10 - 14:45 **Deconvolutin genetic regulation of DNA methylation** by Prof John Chambers, Professor of Cardiovascular Epidemiology / Nanyang Technological University, Lee Kong Chian School of Medicine	**Access to Japanese National HPC Resources including the world's fastest supercomputer Fugaku -- HPCI Public Calls for Proposals FY2022** by Dr Shin-ichi Iga, Senior Scientist, Research Organisation for Information Science and Technology (RIST)
1445 - 1510	14:50 - 15:10 **An Update from Down Under: Pawsey Supercomputing Research Centre** by Mr Mark Stickells, Executive Director, Pawsey Supercomputing Centre, Australia	14:40 - 15:10 **The effect of wing mass and wing elevation motion during insect forward flight** by Jie Yao and K. S. Yeo, Singapore	15:00 - 15:30 **JDEA Super Depp Learning** by Dr Daqing Liu, Research Scientist, JD Explore Academy	14:45 - 15:20 by A/Prof Daniel Ting Shu Wei, Associate Professor, Singapore National Eye Centre	**Supercomputer Fugaku with Rescale Intelligent Computing Platform** by Dr Hitoshi Sato, Technical Director Japan, Rescale, Inc.
1510 - 1535	15:10 - 15:30 **RIKEN-CCS updates** by Prof Satoshi Matsuoka, Director, RIKEN Center for Computational Science (R-CCS), Japan	15:10 - 15:40 **Stability of Many-Body Localized Systems Coupled to Small Bath** by Shao-Hen Chiew, Leong-Chuan Kwek and Chee-Kong Lee, Singapore	15:30 - 16:00 **Deep Learning Is Shaping The Future Of Content Creation** by A/Prof Chen Change Loy, Associate Professor, Nanyang Technological University	15:20 - 15:25 **Closing** By Dr Nicolas Bertin, Program Manager, Centre for Big Data and Integrative Genomics (c-BIG), A*STAR	**Look, Up in the Sky! It's a Cloud! It's a Supercomputer! It's Both!** by Mr Ashrut Ambastha, Principal Engineer - System Architecture, NVIDIA
1535 - 1550		15:40 - 15:50 Break	16:00 - 16:10 **Break**	**Break**	
		15:50 - 16:20 **On the Difference between Shared Memory and Shared Address Space in HPC Communication** by Atsushi Hori, Kaiming Ouyang, Balazs Gerofi and Yutaka Ishikawa, Japan	16:10 - 16:30 **The Data Center Is The New Computing Unit** by Mr Assaf Azrilevich, Senior Director, Solutions Architecture, NVIDIA	**BREAKOUT 4** **Climate Research with HPC Forum** **Track Chair:** **Prof Dale Barker**	**BREAKOUT 5** **Industry** **Track Chair:** **Dr Jernej Zidar**
1550 - 1615	15:50 - 16:10 **ThaiSC Updates** by Dr Piyawut Srichaikul, Director, NSTDA Supercomputer Center (ThaiSC), Thailand	16:20 - 16:50 **Evaluating GPU Programming Models for the LUMI Supercomputer** by George S. Markomanolis, Aksel Alpay, Jeffrey Young, Michael Klemm, Nicholas Malaya, Aniello Esposito, Jussi Heikonen, Sergei Bastrakov, Alexander Debus, Thomas Kluge, Klaus Steiniger, Jan Stephan, Rene Widera and Michael Bussmann, Finland/Helsinki	16:30 - 16:50 **X-ScaleAI: high-performance and scalable solution for the distributed Deep Learning applications** by Dr Donglai Dai, Chief, X-ScaleSolutions	15:50 - 16:00 **Opening Address** by Prof Dale Barker, Director for the Centre for Climate Research Singapore (CCRS), Meteorological Service Singapore	**Simulation Cost Analysis on Rescale HPC Cloud** by Dr Bosung Lee, Solutions Architect Director, Rescale, Inc.
1615 - 1640	16:10 - 16:30 **CSC-IT Center for Science Updates** by Dr Kimmo Koski, Managing Director, CEO, CSC-IT Center for Science	16:50 - 17:10 **Evaluating methods of transferring large datasets** by Jakub Kopeć., Poland	16:50 - 17:10 **Use of Blue Field in task-based computational codes** by Mr James Legg, PhD Student, CDT In Data Intensive Science, University College London	16:00 - 16:15 **Computational aspects of Singapore's third National Climate Change study** by Dr Venkatraman Prasanna, Senior Research Scientist, CCRS, Meteorological Service Singapore	**The Hybrid HPC Approach - Extend Your On-premise Resources to AWS** by Mr Shun Utsui, Senior HPC Solutions Architect, Amazon Web Services
1640 - 1705	16:35 - 17:05 **Panel Forum session**	17:10 - 17:50 **Service Function Chaining Design & Implementation Using Network Service Mesh in Kubernete,** by Abdullah Bittar, Ziqiang Wang, Amir Aghasharif, Changcheng Huang, Gauravdeep Shami, Marc Lyonnais and Rodney Wilson, Canada	17:10 - 17:25 **2021 APAC HPC-AI Competition Celebration & 2022 Competition Opening** by A/Prof Tan Tin Wee, Chief Executive, National Supercomputing Centre Singapore, Mr Gilad Shainer,Chairman, HPC-AI Advisory Council	16:15 - 16:30 **Ensuring statistical reproducibility of climate simulations in the age of hybrid computing** by Dr Salil Mahajan, Oak Ridge National Labs, USA	**The Convergence of HPC and ML/AI. Accelerating AI with HPC** by Mr Bill Bryce, VP of Product Management, Altair
1705 - 1730		17:50 - 18:00 **Closing Address** by Prof Dhabaleswar K.(DK) Panda, Professor and University Distinguished Scholar, Ohio State University	17:25 - 17:35 **2021 HPC-AI Competition Experience Sharing - 1** by Mr Yiqi Zhang, Student, King's College London	16:30 - 16:45 **Simulated drought and heat events over an Indochina subregion and deforestation impacts** by A/Prof Dr Kasemsan Manomaiphiboon, The Joint Graduate School of Energy and Environment (JGSEE), King Mongkut's University of Technology Thonburi (KMUTT), Thailand	**High-Performance Computing: The Journey Forward** by Alan Lee, Corporate Vice President, Head of Research and Advanced Development, AMD
1730 - 1755			17:35 - 17:45 **2021 HPC-AI Competition Experience Sharing - 2** by Mr Kerwin Tsai, Student, National Tsing Hua University 17:45 - 17:55 **2021 HPC-AI Competition Experience Sharing - 3** by Mr Sang Lin Huang, Researcher Fellow, Department of Engineering, National Cheng Kung University 17:55 - 18:00 **Closing** by Mr Qingchun Song, Chair, HPC-AI Advisory Council, APAC	16:45 - 17:00 by Dr Analiza Solis, PAGASA, Philippines 17:00 – 17:15 **Challenges in Multi Geo-Hydrometeorological Hazard Early Warning System Processing** by Prof Dwikorita Karnawati, Director, BMKG, Indonesia 17:15 - 17:30 **Challenges for computing at ECMWF (when transitioning to the new datacentre)** by Dr Martin Palkovic, Director of Computing, ECMWF 17:30 - 18:00 **Combined Q&A Session Closing**	**Global Innovation Trends in High-performance Computing** by Dr Huang Jinquan, Patent Analytics, IPOS International

Day 2
2 Mar 2022 (Wednesday)

Time / Date (in SGT)	[Suntec Exhibition Hall 404]				
0800 - 0830	**Registration**				
0900 - 0930	**SCA22 and DMC Award Ceremony**				
0930 - 1000	Keynote **Frontier - The first Exascale Supercomputer in the USA** by Mr Al Geist, Corporate Research Fellow, Department of Energy (DOE), Oak Ridge National Laboratory, USA				
1000 - 1030	Keynote **From multi-photon entanglement to quantum computational advantage** by Prof Pan Jian-Wei, Professor, University of Science and Technology of China				
1030 - 1045			**Break**		
1045 - 1115		**BREAKOUT 2** **HPE ForCast** 10:30 – 10:35 **Welcome Address** by Mr Rajesh Chhabra, Regional Sales Manager, HPC & AI-APAC, HPE 10:35 - 11:00 **HPE's Portfolio for HPC & AI** by Mr Bill Mannel, VP & GM, High Performance Computing (HPC), HPE 11:00 - 11:30 **HPE Cray AI Development Environment – Scaling Deep Learning Model Development from Cloud to Core** by Hoang Phan, Solution Engineering Lead, AI Solutions and Strategy, HPE 11:30- - 12:00 **HPE Slingshot Interconnect** by Jesse L Treger, Product Manager, Slingshot, HPE 12:00 - 12:30 **Learnings of Using Red Hat Based HPE Cray Systems** by Chung Shin Yee- Senior HPC Analyst – NSCC, Singapore	Industry Plenary **Cloud Native Supercomputing – Supercomputing for the Masses** by Mr Gilad Shainer, Chairman, HPC-AI Advisory Council	**BREAKOUT 4** **Conference on Next Generation Arithmetic (CoNGA)** **Track Chair:** **Prof John Gustafson** 10:45 - 11:00 **Welcome Address** by Prof John Gustafson, Chief Technology Officer, Vq Research Inc. 11:00 - 11:45 **A Case for Correctly Rounded Elementary Functions** by A/Prof Santosh Nagarakatte, Associate Professor and Undergraduate Director of Computer Science, Rutgers University, New Brunswick 11:45 - 12:30 **Universal: Reliable, Reproducible, and Energy-Efficient Numerics** by Dr Theo Omtzigt, Stillwater Supercomputing Inc.	
1115 - 1140			Industry Plenary **Combining HPC-AI and Science to Accelerate Climate Science Research** by Dr Jack Wells, Science Program Manager, NVIDIA		
1140 - 1205			Industry Plenary **Market Observation on Supercomputing in Cloud** by Mr Josh (Jong Hyun) Hwang, General Manager & Vice President, Rescale APAC, Rescale, Inc.		
1205 - 1230			Industry Plenary **AI Meets HPC in Scientific Computing Using Graphcore's IPUs** by Mr Fabrice Moizan, Senior Regional Vice President of EMEAI and Asia Pacific Sales, GRAPHCORE		
1230 - 1300	**Lunch**				
1300 - 1330					
	BREAKOUT 1 **Accelerating HPC Upskilling without Borders** **Track Co-Chairs:** **Dr Freda Lim** **Dr Adrian Mak** **Ms Ann Backhaus**	**BREAKOUT 2** **HPE ForCast**	**BREAKOUT 3** **Asia Pacific Research Platform (APRP) and Data Mover Challenge (DMC)** **Track Co-Chairs:** **Mr Yves Poppe** **Mr Andrew Howard**	**BREAKOUT 4** **Conference on Next Generation Arithmetic (CoNGA)** **Track Chair:** **Prof John Gustafson**	**BREAKOUT 5** **Industry** **Track Chair:** **Dr Jernej Zidar**
1330 - 1355	13:30 - 15:30 **Session 1: HPC Upskilling - Students & Teachers building workforce-ready HPC Skills** 1330 - 1345 **The Importance of HPC Education - Intro Speaker** by Ms Ann Backhaus, Education & Training Manager, Pawsey Supercomputing Centre, Perth, Western Australia 1345 - 1400 **The Joy of Computational Modelling: Exposure, Engagement, Exploration** by Mr Harman Augustus Johll, Principal, Beatty School 1400 - 1415 **High Performance Computing in Singapore Polytechnic - Opportunities and Applications** by Dr Tracey Lee, Senior Research Scientist, Singapore Polytechnic 1415 - 1430 **Teaching Data Science can Change the World** by Dr Linda McIver, Executive Director, Australian Data Science Education Institute 1430 - 1445 **Building AI superpowers through supercomputers** by Dr Peter Leong, AI Specialist and Senior Lecturer, School of Computing, Singapore Polytechnic 1445 - 1515 **Panel Discussion: Where are the gaps with education HPC and how can we bridge that gap? Do we have a HPC ready workforce?** Moderator: Dr Freda Lim, Deputy Department Director, Materials Science and Chemistry, IHPC, A*STAR 1515 - 1530 **Closing Session: What's Next? Call to Action** by Ms Ann Backhaus, Education & Training Manager, Pawsey Supercomputing Centre, Perth, Western Australia	13:30 - 14:05 **Updates on ASPIRE 2A** by Paul Hiew, Senior Systems Manager- NSCC, Singapore 14:05 - 14:30 **How to Cool the Next Generation of HPC/AI servers** by Steve Tolnai, HPC/AI Chief Technologist, APAC, HPC Specialist 14:30 - 15:15 **Panel Discussion- HPC, Public vs Private Cloud (on-prem installs)** by Mr Bill Mannel, VP & GM, High Performance Computing (HPC), HPE, - Mr Rajesh Chhabra, Regional Sales Manager, HPC & AI-APAC, Hewlett Packard Enterprise - Paul Hiew, Senior Systems Manager, National Supercomputing Centre (NSCC) Singapore - Nick Wilson, Technical Director (Acting) - Nelson Dias, Chief Revenue Officer, Altair - Adesh Gupta, Sales Director, Global Account Sales, Asia/Pacific & Japan, Intel 15:15 - 15:30 **Closing** by Mr Bill Mannel, VP & GM, High Performance Computing (HPC), HPE *agenda is subjected to change	13:30 - 13:35 **Welcome Address** by Mr Yves Poppe, Director Advanced Global SuperComputing Networking, National Supercomputing Centre (NSCC) Singapore and Mr Andrew Howard, Associate Director - Cloud Services, National Computational Infrastructure Canberra Australia 13:35 - 14:05 **The Global Research Platform and SC21 Advanced Networking For Data Intensive Science Experiments and Demonstrations** by Prof Joe Mambretti, Director, International Center for Advanced Internet Research, Northwestern University 14:05 - 14:35 **Secure data sharing in the Responsible internet** by Prof Dr IR Cees de Laat, University of Amsterdam and Dr Paola Grosso 14:35 - 15:05 **OFCnet : A new opportunity to validate & demonstrate advanced optical network functions** by Mr Rodney G. Wilson, Chief Technologist for Advanced Network Architectures and Research, Ciena Corporation 15:05 - 15:35 **The Bio/medical data HPC landscape in Saudi arabia** by Mr Mohammed Alarawi, Research Specialist, Computational bioscience research center	13:30 - 14:15 **Comparing Different Decodings for Posit Arithmetic** by Mr Raul Murillo, Complutense University of Madrid 14:15 - 15:30 **On the Implementation of Edge Detection Algorithms with SORN Arithmetic** by Mr Moritz Bärthel, Univeristy of Bremen, Institute of Electrodynamics and Microelectronics (ITEM.me) 15:35 - 15:50 Break 15:50 - 16:35 **Small Reals Representations for Deep Learning at the Edge** by Mr Federico Rossi, University of Pisa 16:35 - 17:20 **A Posit8 Decompression Operator for Neural Networks Inference** by Dr Benoît Dupont de Dinechin, Kalray 17:20 - 17:55 **Invited Industry Talk: Posit-enabled RISC-V for Accelerating HPC/AI workloads** by Mr Anantha Kinnal, Director, Calligo Technologies	**Next Generation CFD for Real World Application** by Dr Karthik Sundarraj, Techology Advisor, Hexagon
1355 - 1420					**Managing HPC with Mixed Workload Infrastructure** by Mr Sandeep Lodha, CEO & Director, Netweb Pte Ltd
1420 - 1445					**Atos Life Sciences Centre of Excellence - Boosting Innovation** by Dr Xavier Vigouroux, Strategic Collaboration Coordinator for HPC, AI, quantum Co-lead of Atos, Lifes Science Centre of Excellence
1445 - 1510					**Convergence of Machine Learning and High-Performance Computing Systems for Empowering classical HPC Workload** by Prof Pawel Gepner, Senior Hardware & Systens Field Application Engineer, GRAPHCORE
1510 - 1535					**HPC Re-imagined with AMD EPYC Processors** by Mr Raghu Nambiar, Corporate Vice President, AMD Datacenter Ecosystems and Application Engineering
1535 - 1550	**Break**				**Break**
	BREAKOUT 1 **Accelerating HPC Upskilling without Borders** **Track Co-Chair:** **Dr Freda Lim** **Dr Adrian Mak** **Ms Ann Backhaus**		**BREAKOUT 3** **Asia Pacific Research Platform (APRP) and Data Mover Challenge (DMC)** **Track Co-Chairs:** **Mr Yves Poppe** **Mr Andrew Howard**		**BREAKOUT 5** **Industry** **Track Chair:** **Dr Jernej Zidar**
1550 - 1615	16:00 - 18:00 **Session 2: HPC without Borders - Cross-Centre Collaboration to Upskill HPC Users** 16:00 - 16:15 **HPC Without Borders: The Importance of Collaboration - Intro Speaker** by Ms Ann Backhaus, Education & Training Manager, Pawsey Supercomputing Centre, Perth, Western Australia	1545 - 1600 **Break**	15:50 - 16:20 **Update on the APAN APRP WG** by Dr Jeonghoon Moon, Leader of Network Development Team of KREONET Center, KISTI 16:20 - 16:50 **DMC21 Results and Announcement for 2022-2023 Cycle** by Mr Andrew Howard, Associate Director, Cloud Services, National Computational Infrastructure Canberra Australia and Prof Francis Lee, Associate Professor at School of Computer Engineering, NTU 16:50 - 17:40 **Presentation by the Winners of the DMC21 Contest** 17:40 - 17:55 **Closing Address**		**How Customers are using Amazon Braket to Explore Quantum Computing in the Cloud** by Mr Michael Brett, Principal Specialist for Quantum Computing, Amazon Web Services
1615 - 1640	16:15 - 16:30 **HPC teaching and training at EPCC** by Ms Weronika Filinger, Application Developer, EPCC, Scotland 16:30 - 16:45 **Embracing Data and Embracing Diversity** by Ms Julie Faure-Lacroix, Science liaison agent, Calcul Québec - Université Laval	16:00 - 18:00 **BREAKOUT 2** **Quantum Computing** **Track Chair:** **Prof José Ignacio Latorre** 16:00 - 16:10 **Welcome Address** by Prof José Ignacio Latorre, Director, Centre for Quantum Technologies (CQT) 16:10 - 16:30 **A hardware perspective of Quantum Computing** by A/Prof Rainer Dumke, Associate Professor, Nanyang Technological University, PI @ Centre for Quantum Technology 16:30 - 16:50 **Bringing quantum acceleration to HPC Centers** by Mr Raghunath Koduvayur, Head of Marketing and Communications, IQM Quantum Computers, Finland 16:50 - 17:10 **Qibo: an open-source quantum operating system** by A/Prof Stefano Carrazza, Associate Professor, Department of Physics, University of Milan 17:10 - 17:40 **Panel Discussion** **Industry opportunities for quantum startup** Moderator: Prof José Ignacio Latorre, Director, Centre for Quantum Technologies (CQT) Presenters: Dr Joe Fitzsimons,Chief Executive Officer, Horizon Quantum Computing, Dr Tommaso Demarie, CEO, Entropica Labs and A/ Prof Dimitris G. Angelakis, Founder and Chief Scientist, AngelQ Quantum Computing 17:40 - 18:00 **Quantum computing and the European Perspective: a vision from Barcelona** by Dr Josep Martorell, Associate Director, Barcelona Supercomputing Center 18:00 **Closing Address** by Prof José Ignacio Latorre, Director, Centre for Quantum Technologies (CQT)		**Delivering Breakthrough Results for AI in the New Multi-dimensional HPC World** by Dr Bill Nitzberg, CTO, PBS Works, Altair
1640 - 1705	16:45 - 17:00 by Prof Satoshi Matsuoka, Director, RIKEN Center for Computational Science (R-CCS), Japan 17:00 - 17:15 **NCI's training program: - A gateway to build user's computation capacity for innovative science and technology** by Dr Wang Jingbo, Senior Staff Scientist (Training), National Computational Infrastructure				**How Atos is boosing scientific research and large scale simuations thanks to the combinaton of machine learning and HPC expertise** by Dr Cedric Bourrasset, Global Head of High Performance AI business unit, Atos
1705 - 1730	17:15 - 17:45 **Panel Discussion** Moderator: Dr Adrian Mak, Scientist (Materials Science and Chemistry), Institute of High Performance Computing, A*STAR 17:45 - 18:00 **Closing Session: What's Next? Call to Action.** by Ms Ann Backhaus, Education & Training Manager, Pawsey Supercomputing Centre, Perth, Western Australia				**Colossal-Ai: A Unified Deep Learning System For Large-Scale Parallel Training** by Prof You Yang, Presidential Young Professor, National University of Singapore
1730 - 1755					**Data, The New Frontier for HPC & AI** by Mr Rob Mollard, APAC Senior Data & Storage Technologist, Hewlett Packard Enterprise

Day 3
3 Mar 2022 (Thursday)

Time / Date (in SGT)	[Suntec Exhibition Hall 404]				
0800 - 0830	**Registration**				
0900 - 0930	Keynote 5 **Opening Presentation by HPE** by Mr Antonio Neri, Chief Executive Officer, Hewlett Packard Enterprise (HPE), USA and Mr Bill Mannel, VP & GM, High Performance Computing (HPC), Hewlett Packard Enterprise				
0930 - 1000	Keynote **Mathematical and Computational Foundations for Enabling Predictive Digital Twins at Scale** by Prof Karen Willcox, Director, Oden Institute for Computational Engineering and Sciences, USA				
1000 - 1030	Keynote **Thinking Fast and Slow in AI** by Dr Francesca Rossi, IBM Fellow and AI Ethics Global Leader, IBM USA				
1030 - 1045	**Break**				
1045 - 1115	Industry Plenary **Latest Compute Solutions for the Digital Economy** by Mr Bill Mannel, VP & GM, High Performance Computing (HPC), Hewlett Packard Enterprise			**BREAKOUT 4** **Conference on Next Generation Arithmetic (CoNGA)** **Track Chair:** **Prof John Gustafson** 1045 - 1130 **Multiposits: Universal Coding of R^n** by Dr Peter Lindstrom, Lawrence Livermore National Laboratory 1130 - 1215 **ACTION: Automated Hardware-Software Codesign Framework for Low-Precision Numerical FormaT Selection in TinyML** by Mr Seyed Hamed Fatemi Langroudi, University of Texas at San Antonio	
1115 - 1140	Industry Plenary **Four supercomputers, twice** by Mr Andrew Jones, Future HPC/AI Capabilities Planning, Microsoft				
1140 - 1205	Industry Plenary by Dr Kevin Jorissen, Distinguished HPC Cloud Architect with Oracle Cloud				
1205 - 1230					
1230 - 1300	**Lunch**				
1300 - 1330					
	BREAKOUT 1 **Inclusivity and Diversity, the path to supercomputing for ALL** **Track Chair:** **Mr Mark Stickells**	**BREAKOUT 2** **Built Environment**	**BREAKOUT 3** **Mini Global Research Platform (GRP) Workshop** **Track Co-Chair:** **Prof Francis Lee Bu Sung** **Prof Joe Mambretti** **Ms Maxine Brown**	**BREAKOUT 4** **Conference on Next Generation Arithmetic (CoNGA)** **Track Chair:** **Prof John Gustafson**	**BREAKOUT 5** **Industry** **Track Chair:** **Dr Jernej Zidar**
1330 - 1355	13:30 - 13:35 **Welcome Address** by Mr Mark Stickells, Executive Director, Pawsey Supercomputing Centre, Australia 13:35 - 13:55 **Lessons learned from the future of meetings for a better today** by Dr Vanessa Moss, Head of ASKAP Science Operations at CSIRO, Sydney, New South Wales, Australia	**Welcome Address** by Ms Angie Huang, Senior Manager (Strategy, Planning and Engagements), National Supercomputing Centre (NSCC) Singapore **The Potential Role of Supercomputers in Resilience** by Mr Eugene Seah, Managing Director, Surbana Technologies, Surbana Jurong Group **HPC Innovation Challenge for the Environment** by Ms Angie Huang, Senior Manager (Strategy, Planning and Engagements), National Supercomputing Centre (NSCC) Singapore **Closing**	13:30 - 13:35 **Introduction to GRP Sessions** by Prof Francis Lee Bu Sung, Associate Professor at School of Computer Engineering, NTU 13:35 - 13:55 **The Global Research Platform- An Overview** by Prof Joe Mambretti, Director, International Center for Advanced Internet Research, Northwestern University	13:30 - 14:15 **Qtorch+: Enabling Next Generation Arithmetic for Pytorch Machine Learning** by Dr Minh Ho, National University of Singapore 14:15 - 15:30 **Towards a Posit™ Standard** by Dr Hauke Rehr, FSU Jena, Germany 15:30 - 17:55 **Open discussion with Working Group panel regarding the Posit Standard**	**Cloud Native Supercomputing** by Mr David Slama, Senior director, NVIDIA
1355 - 1420	13:55 - 14:15 **Diversity in HPC - My Story** by Dr Rika Kobayashi, Computational Chemist, Australian National University		13:55 - 14:15 **International Networking for the SKA** by Dr Richard Hughes-Jones, Senior Network Advisor, GÉANT **Association**		**Data Management for Quantum Classical Hybrid Multi Cloud Infrastructure** by Mr Sean Petkovic, Principal Solutions Architect, APAC, NetApp
1420 - 1445	14:15 - 14:35 **From surviving to thriving: A search of thriving with diversity and inclusivity** by Dr Yang Yinping, Group Manager and Senior Scientist, Affective Computing Group, Institute of High Performance Computing, A*STAR 14:35 - 14:55 **Seizing Innovation in the Digital** by Prof Tele Tan, Director, Autism Academy for Software Quality Assurance, Curtin University		14:15 - 14:35 **Distributed Computing Operations at the HL-LHC With Operational Intelligence** by Dr Federica Legger, Associate Researcher, INFN (National Institute for Nuclear Physics) 14:35 - 14:55 **Building Research Platforms for Analysing Biomedical Data in the Age of Genomics and Beyond** by Dr Kenneth Ban, Program Director, National Supercomputing Centre, Singapore		**Forecasting next 5 years (2022-2027) in HPC** by Mr Rajesh Chhabra, Regional Sales Manager, HPC & AI-APAC, Hewlett Packard Enterprise
1445 - 1510	14:55 - 15:15 **The power of cultural diversity and inclusion in the computing field** by Dr Nadege Minois, Trainer, Facilitator and Coach in Cultural Diversity, Coaching Vision 15:15 - 15:35 **Australasia Women+ in HPC, growth and opportunities for D&I in Asia** by Ms Aditi Subramanyam, Marketing & Events Officer, Pawsey Supercomputing Centre, Australia, Ms Jana Makar, Communications Manager, New Zealand eScience Infrastructure (NeSI) and Mr Adam Huttner-Koros, Communications Officer, National Computational Infrastructure, Australia	**14:45 - 15:00** **Break** **BREAKOUT 2** **2nd EU-ASEAN-Japan Symposium on HPC International Infrastructures** **Track Co-Chair:** **Dr Zurina Moktar** **Mr Lukas Gajdos** **Prof Satoshi Matsuoka** 15:00-15:05 **Opening of 2nd EU-ASEAN-Japan Symposium on HPC International Infrastructures** **Introduction and Welcome** by Dr Zurina Moktar, Head, Science and Technology Division, ASEAN Secretariat 15:05-15:10 **Opening remarks** by H.E. Igor Driesmans, EU Ambassador to ASEAN 15:10-16:00 **Track 1: The Model for Shared HPC ecosystems – Challenges and Benefits** 15:10 - 15:15 **Introduction of Speakers** by Mr Pierrick Fillon-Ashida, European Commission, DG RTD 15:15 - 15:30 **EuroHPC - Infrastructure and Access** by Mr Anders Dam Jensen, Executive Director, European High Performance Computing Joint Undertaking (EuroHPC JU) 15:30 - 15:45 **International Access to Fugaku and Updates on HPCI Systems** by Prof Satoshi Matsuoka, Director, RIKEN Center for Computational Science (R-CCS) 15:45 - 16:00 **ASEAN HPC Infrastructure Update** by Mr Tay Kheng Tiong, Chief Executive Officer, A*STAR Computational Resource Centre (A*CRC)	14:55 - 15:15 **Network Technologies and Services Development in the GÉANT Project** by Dr Ivana Golub, Senior Researcher, Poznan Supercomputing and Networking Center (PSNC) 15:15 - 15:35 **Computing Infrastructure to Support Rubin Science Mission** by Dr Wei Yang, Information Systems Specialist at SLAC National Accelerator Laboratory, Stanford University and Dr Yusra AlSayyad, Postdoctoral Research Associate, Princeton University		**The Critical Role Open Source Storage will play in advancing a vision of Supercomputing for All** by Mr Joff Pearce, Solutions Architect, Softiron and Mr Andrew Howard, Associate Director, Cloud Services, NCI Australia
1510 - 1535	**Closing**		15:35 - 15:40 **Break**		**A Simple Way to Run Large-Scale Training on Azure HPC/AI** by Mr Sooyoung Moon, HPC/AI Senior Specialist, Microsoft
1535 - 1550	**Break**		15:40 - 16:00 **AutoGOLE/SENSE** by Mr Tom Lehman, Networked Systems Researcher and Developer, ESnet		**Break**
	BREAKOUT 1 **Green Data Centre** **Track Chair:** **Mr Vincent Lim**		16:00 - 16:20 **PRP/NRP/Nautilus Update -- ARNO and the UCSD Campus Digital Twin** by Mr John Graham, Senior System Integration Engineer, Calit2/Qualcomm Institute, UC San Diego		**BREAKOUT 5** **Industry** **Track Chair:** **Dr Jernej Zidar**
1550 - 1615	**Welcome Address** by Mr Vincent Lim, Senior Facilities Manager, National Supercomputing Centre (NSCC) Singapore 15:50 - 16:20 **Managing Sustainability at Data Centres** by Mr Sujit Panda, CTIO, BDx Data Centers		16:20 - 16:40 **KAUST Cyberinfrastructure for International Research** by Mr Alex Moura, Senior Network Engineer, KAUST		**Accelerating AI Workloads with BeeGFS Parallel File System and NetApp Storage** by Mr Chris Weber, NetApp E-Series Technical Lead
1615 - 1640	16:20 - 16:50 **KoolLogix - Green Data Centre Cooling Solutions** by Dr Seri Lee, Chief Technology Officer, KoolLogix Pte.Ltd 16:50 - 17:00 **Break**		16:40 - 17:00 **Wide-Area SDN Development over KREONET Towards 5G and Network Intelligence** by Dr Dongkyun Kim, Principal Researcher, Korea Institute of Science and Technology Information (KISTI)		**In-Network Computing** by Dr Richard Graham, Scale Special Interest Group Chair, HPC-AI Advisory Council
1640 - 1705	17:00 - 17:30 **Transforming Data Centers through Infrastructure-as-a-Service** by Mr Simon Claringbold, CEO, NaviX Solutions 17:30 - 18:00 **Gas and Liquid : A Cooling Engineer's View** by Mr Derek William, Director & Professional Engineer (Mechanical), TW International Counsel Pte Ltd	16:00-16:50 **Track 2: HPC activities in ASEAN – Promotion of skills and capacity for the HPC Community** 16:00 - 16:05 **Introduction of Speakers** by Mr Lukas Gajdos, Deputy Head of Delegation to ASEAN 16:05 - 16:20 **ASEAN HPC School – An Update and Future Plans** by Dr Fabrizio Gagliardi, E-READI Senior Advisor, Barcelona Supercomputing Centre 16:20 - 16:35 **ASEAN in Riding the HPC Momentum** by Dr Zurina Moktar, Head of Science and Technology Division, ASEAN Secretariat 16:35 - 16:50 **Supporting HPC in Singapore and abroad** by A/Prof Tan Tin Wee, Chief Executive, National Supercomputing Centre (NSCC) Singapore	17:00 - 17:20 **ESnet6 High-Touch Platform - Balancing Network Flexibility, Scalability, and Complexity** by Mr Chin Guok, Planning and Architecture Group Lead, Energy Sciences Network (ESnet) 1720 - 1740 **GRP Prototype Services: P4 Testbed and DTNaaS for Data Intensive Science at StarLight** by Mr Jim Chen, Associate Director, International Center for Advanced Internet Research (iCAIR), Northwestern University 17:40 - 18:00 **Accelerating AI/ML Lifecycles with the ABCI Supercomputer** by Dr Ryousei Takano, Senior Researcher, AIST, Japan 18:00 - 18:20 **Knitting a New Internet** by Ms Anita Nikolich, Research Scientist and Director of Research Innovation at the School of Information Sciences at the University of Illinois - Urbana Champaign 18:20 - 18:25 **Closing Remarks** by Prof Joe Mambretti, Director, International Center for Advanced Internet Research, Northwestern University		**AI at supercomputing scale** by Mr Philip Tan, General Manager for Southeast Asia, GRAPHCORE and Dr Cedric Bourrasset, Head of High Performance AI Business Unit, Atos
1705 - 1730					**NVIDIA Omniverse: HPC Visualisation and Simulation Reimagined** by Mr Michael Lang, Solutions Architecture Manager, Asia Pacific South, NVIDIA
1730 - 1755		16:50-17:40 **Track 3: HPC cooperation in tackling COVID** 16:50 - 16:55 **Introduction of Speakers** by Dr Fabrizio Gagliardi, E-READI Senior Advisor, Barcelona Supercomputing Centre 16:55 - 17:10 **Shared HPC ecosystem for fighting pandemics: European experience and Collaboration Opportunities with Asia** by Dr Rossen Apostolov, Executive Director BioExcel Center of Excellence for Computational Biomolecular Research 17:10 - 17:25 **Introduction to GISAID** by Dr Sebastian Maurer-Stroh, Executive Director, A*STAR Bioinformatics Institute (BII), Singapore 17:25 - 17:40 **Japan's HPC experience in the fight against the pandemic** by Prof Satoshi Matsuoka, Director, RIKEN Center for Computational Science (R-CCS), Japan 17:40-18:15 **Moderated Panel Session** **The Benefits and Challenges of International HPC Collaboration** Panel Moderated by Mr Pierrick Fillon-Ashida, with: - Mr Anders Dam Jensen, Executive Director, European High Performance Computing Joint Undertaking (EuroHPC JU) - Prof Satoshi Matsuoka, Director, RIKEN Centre for Computational Science (R-CCS) - Prof Andy Hor, National COSTI Chair of Singapore, Deputy Chief Executive (Research), Agency for Science, Technology and Research (A*STAR) Singapore			**Accelerating Life Science Innovations with Azure HPC/AI advantages** by Mr Xavier Cui, HPC/AI Senior Specialist, Microsoft
1800 - 1830		18:15 - 18:30 **Closing** 18:15 – 18:20 **Introduction of Speakers** by Mr Pierrick Fillon-Ashida, European Commission, DG RTD 18:20 – 18:25 **Symposium Closing** by Ms Maria Cristina Russo, Director for Global Approach and International Cooperation in R&I at European Commission (EC) 18:25 – 18:30 **Symposium Closing** by H.E Satvinder Singh, Deputy Secretary-General of ASEAN for ASEAN Economic Community (AEC)			
1830 - 1845	**Closing Ceremony**				