

7th of September, 2021

Certificate of completion

ACM Europe Summer School on HPC Computer Architectures for AI and Dedicated Applications 2021

Fabrizio Gagliardi, Director of the ACM Europe Summer School 2021, certifies that Oshan Ivantha Mudannayake has successfully completed the 2nd edition of the ACM Europe Summer School on “*HPC Computer Architectures for AI and Dedicated Applications*”, held remotely between August, 30th and September 3rd 2021. The ACM Summer School 2021 had a total duration of 40 hours.



Fabrizio Gagliardi

Director of the ACM Europe Summer School on
“*HPC Computer Architectures for AI and Dedicated Applications*”

Programme

ACM Europe Summer School on HPC Computer Architectures for AI and Dedicated Applications 2021

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
30 Aug	31 Aug	1 Sep	2 Sep	3 Sep
8:45 AM - 9:00 AM Welcome to the school, by Fabrizio Gagliardi and Panagiotis Fatourou	8:45 AM - 9:00 AM Opening of the day, by Fabrizio Gagliardi	8:45 AM - 9:00 AM Opening of the day, by Fabrizio Gagliardi	8:45 AM - 9:00 AM Opening of the day, by Fabrizio Gagliardi	8:45 AM - 9:00 AM Opening of the day, by Fabrizio Gagliardi
9:00 AM - 1:00 PM Lecture "Energy Efficient Approach in ML Architecture", by Uri Weiser	9:00 AM - 1:00 PM Lecture "Many shades of Machine Learning Acceleration – an Open RISC-V Platform Perspective", by Luca Benini	9:00 AM - 1:00 PM Lecture "Performance analysis and hybrid programming in HPC", by Jesús Labarta	9:00 AM - 1:00 PM Lecture "Practical Introduction to programming Deep Learning on a supercomputer", by Jordi Torres	9:00 AM - 1:00 PM Lecture "Vector acceleration in HPC and Edge Devices", by Mauro Olivieri
1:00 PM - 2:00 PM Lunch break	1:00 PM - 2:00 PM Lunch break	1:00 PM - 2:00 PM Lunch break	1:00 PM - 2:00 PM Lunch break	1:00 PM - 2:00 PM Lunch break
2:00 PM - 3:00 PM Keynote "Molecular Computing", by Luca Cardelli	2:00 PM - 3:00 PM Talk "EuroHPC - The European High Performance Computing Joint Undertaking", by Jo Wood	2:00 PM - 3:00 PM Talk "Computer Number Formats to Accelerate Deep Neural Network Training", by Marc Casas	2:00 PM - 6:00 PM Lecture "Distributed Data Analytics in Supercomputing Systems", by Josep Lluís Berrall	2:00 PM - 3:00 PM "Using HPC to run AI training for spotting illegal buildings. How to develop real use case for real customers", by Fabio Previtali (Almaviva)
3:00 PM - 4:00 PM Talk "Challenges and Solutions applying HPC to Interdisciplinary Research", by Sunita Chandrasekaran	3:00 PM - 4:00 PM Talk "Avispado: A RISC-V core supporting the RISC-V vector instruction set", by Roger Espasa	3:00 PM - 4:00 PM Talk "Programming parallel codes with PyCOMPSs", by Rosa Badia		3:00 PM - 4:00 PM Keynote "Revolution in High Performance Computing to accelerate scientific progress", by Mateo Valero
4:00 PM - 5:00 PM Talk "Women in Computing in Europe", by Ruth Lennon, ACM WE	4:00 PM - 5:00 PM Talk "Building an Open Source Ecosystem for HPC", by John Davis	4:00 PM - 5:00 PM Poster session		4:00 PM - 4:30 PM Prize ceremony, by Fabrizio Gagliardi and Vicki Hanson
5:00 PM - 6:00 PM Talk "HPC Empowered Accessible, Affordable, and Effective AI Computing", by Min Li	5:00 PM - 6:00 PM Talk "Deep Learning Hardware: Past, Present, and Future", by Bill Dally	5:30 - 6:30 PM Talk "Machine Learning for Healthcare", by Mihaela van der Schaar		