



The Africa-Europe Cluster of Research Excellence: Addressing Global and African Challenges Through Methods of Artificial Intelligence, Data Science, and Theoretical and Computational Thinking

presents a

MASTERCLASS:
**High-performance
Computing Architecture
and Parallel Computing**

Wednesday, 29 November 2023

South Africa: 10h15-12h10 (GMT+2) | Sweden: 9h15-11h10 (GMT+1)

VENUES:

- Neelsie Cinema, Stellenbosch University, South Africa
- Ångström Laboratory, University of Uppsala, Sweden
- Online

PROGRAMME

TIME (GMT+2)	TITLE	TEACHER
10h15–10h35	HPC Architecture	Prof Onime Clement (ICTP)
10h35–10h55	Introduction to Parallel Computing	Dr Solomon Gizaw (AAU)
10h55–11h15	Algorithms and Concurrency	
11h15–11h30	Tea Break	
11h30–11h50	Parallelizing Serial to Parallel OpenMP	Prof Onime Clement (ICTP)
11h50–12h10	HPC Demo	

PREREQUISITES

For the practical component of the Masterclass, you will need:

- a basic knowledge of C programming and Command line
- a suitable C Compiler installed on your device (see www.codeblocks.org/)

WHO CAN ATTEND?

The Masterclass is open to all, and Masters and PhD students are especially encouraged to attend.

TEACHERS



Prof Onime Clement
(ICTP, Italy)



Dr Solomon Gizaw
(Addis Ababa
University, Ethiopia)

REGISTER: <https://bit.ly/3urdRHu>

For more information, please visit core-ai.sun.ac.za

