



MICROCARD

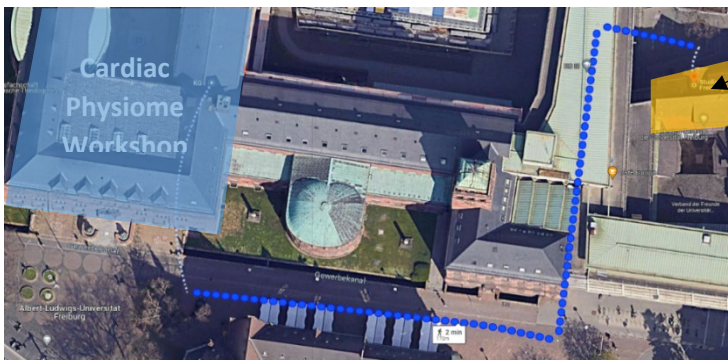
Final Workshop
Special Session



EuroHPC
Joint Undertaking

September 14th, 2024

TIME	SESSION	PRESENTED BY
12:00 – 13:00 End of the CPP and Lunch		
13:00 - 13:15	Welcome	Mark Potse
13:15 – 13:30	A word from the EuroHPC JU (TBC)	Matteo Mascagni
13:30 – 13:45	Parallel-in-time methods for cardiac electrophysiology.	Giacomo de Souza
13:45 – 14:00	BDDC and GDSW scalable preconditioners for the cardiac EMI model	Ngoc Mai Monica Huynh
14:00 – 14:15	Algebraic Multigrid solvers for the cardiac EMI model on hybrid CPU–GPU architectures	Edoardo Centofanti
14:15 – 14:30	Efficient Simulation of Cardiac Electrophysiology at cellular level	Fatemeh Chegini
14 :30 – 14 :45	Load Balancing and automatic resource dimensioning for generated ionic model kernels	Vincent Alba
14:45 – 15:15 Coffee break		
15:15 – 15:30	Automatic failure detection and restart in openCARP	Nicolas Ducarton
15:30 – 15:45	Finite Volume Methods and Numerical Simulations for the Cell-by-Cell Bidomain Model in Cardiac Electrophysiology.	Zeina Chehade
15:45 – 16:00	The Challenge of the Low Precision Processor Trend - Computational Linear Algebra on Modern Architectures	Hartwig Anzt
16:00 – 16:15	Distributed Preconditioning Efforts in Ginkgo	Fritz Göbel
16:15 – 16:30	Distributed memory parallel simulator of the EMI model	James Trotter
16:30 – 16:45	Closing words	All
16:45 – 17:45	General Assembly	GA Members



Zur Lieben Hand
MICROCARD session venue

Address:

Löwenstraße 16, 79098
Freiburg im Breisgau,
Germany