Workshop on Asynchronous Many-Task Systems february 2025

Wednesday	Thursday	FRIDAY
Day 1 19	Day 2 20	Day 3 21
Registration Coffee and Pastries 8:00 AM-8:45 AM Welcoming Remarks 8:45 AM-9:00 AM	Registration Coffee and Pastries 8:00 AM-8:55 AM WAMTA'26 Preview 8:55 AM-9:00 AM	Registration Coffee and Pastries 8:00 AM-9:00 AM
Keynote I: Improving the HPC experience, did Julia get it right or will AI hide the problem (or both)? 9:00 AM-10:00 AM	Keynote II: Task-Graphs: Why aren't we all using them? 9:00 AM-10:00 AM	Keynote III: Chaos to Cosmos: Orchestrating Complex Scientific Applications with Dynamic Runtime Systems 9:00 AM–10:00 AM
Coffee 10:00 AM-10:30 AM	10:00 AM-10:30 AM Type-level invariants for SPMD programming with Rust 10:30 AM-11:00 AM	Coffee 10:00 AM-10:30 AM Scalable Block-Sparse Matrix Multiplication Using Template Task Graphs 10:30 AM-11:00 AM Leveraging Hardware-Aware Computation in Mixed-Precision Matrix Multiply: A Tile-Centric Approach 11:00 AM-11:30 AM Panel discussion: SWOT 11:30 AM-12:00 PM Lunch 12:00 PM-1:00 PM
Contemplating a Lightweight Communication Interface for Asynchronous Many-Task Systems 10:30 AM-11:00 AM	Evaluating Al-generated code for C++, Fortran, Go, Java, Julia, Matlab, Python, R, and Rust	
Comparing and Contrasting User and Runtime Directed Data Placement Strategies for Owner-Compute, Multi-Accelerator Distributed Task Based Scheduling 11:00 AM-11:30 AM	11:00 AM-11:30 AM Dynamic Resource Management: Comparison of Asynchronous Many-Task (AMT) and Dynamic Processes with PSets (DPP) 11:30 AM-12:00 PM	
Chplx an Asynchronous Many Task Runtime Foundation for Chapel 11:30 AM–12:00 PM	Lunch & Poster session 12:00 PM-1:00 PM	
Lunch 12:00 PM-1:00 PM	Unifying the Architecture and Implementation of Task-Aware Libraries 100 PM-130 PM	
Supporting OpenMP Free Agents by Leveraging the nOS-V Threading Library 1:00 PM-1:30 PM	Data Sparsity in Global and Compact Support Radial Basis Functions for 3D Unstructured Mesh Deformation 1:30 PM-2:00 PM	
Futures in Task Graphs N Extending Taskflow With Dynamic Data Dependencies 1:30 PM-2:00 PM	A Task-parallel Pipeline Programming Framework with Token Dependency 2:00 PM-2:30 PM	
Adaptively Optimizing the Performance of HPX's Parallel Algorithms 2:00 PM-2:30 PM	Coffee 2:30 PM-3:00 PM	
Coffee 2:30 PM-3:00 PM	GPRat: Gaussian Process Regression with Asynchronous Tasks 3:00 PM-3:30 PM Julia-Unified Recursive Implementation of TRMM and TRSM for	
Fail-stop Failure Protection for Coordinated Work Stealing of Tasks that Communicate through Futures 3:00 PM-3:30 PM	GPU Acceleration 3:30 PM-4:00 PM Discussion: AI	
Q-IRIS: The Evolution of the IRIS Task-Based Runtime to Enable Classical-Quantum Workflows 3'30 PM-4:00 PM	4:00 PM-4:30 PM Vito's Sicilian Pizzeria & Ristorante	
Discussion: Integration with other standards 4:00 PM-4:30 PM	6:45 PM-8:30 PM	
Banquet on Campus 5:30 PM-8:00 PM		