



PROGRAM

Wednesday, March 4, 2020	
14:30 - 18:00	Registration
15:00 - 19:30	Tutorial: "Praktyczne Wprowadzenie do Obliczeń Neuronowych w Języku Python", M. Karwatowski, M. Pietroń, M. Wielgosz
Thursday, March 5, 2020	
8:00 -	Registration
9:00 - 10:20	Session S1: Opening and CYFRONET presentations, <i>Chair: Mariusz Sterzel</i> 9:00 Opening and CYFRONET Presentation, K. Wiatr 9:40 Infrastruktura i Oprogramowanie dla Metod Sztucznej Inteligencji, Ł. Flis 10:00 Realizacja Obliczeń Metodami Sztucznej Inteligencji w ACK Cyfronet AGH, P. Russek
10:20 - 10:50	coffee
10:50 - 11:50	Session S2: <i>Chair: Patryk Lasoń</i> Current Status and Plans – Panel Discussion
11:50 - 12:50	Session S3: Contributed papers, <i>Chair: Andrzej Zemła</i> 11:50 Towards a Universal Platform for Large Scale Simulations on Prometheus, M. Bubak, M. Kasztelnik, J. Meizner, P. Nowakowski, T. Gubała, M. Malawski 12:05 High-Productivity, Interactive and Desktop-Like Platforms at ACC Cyfronet AGH-UST, K. Noga, M. Czuchry, M. Pawlik, J. Budzowski, Ł. Flis, P. Lasoń, M. Magryś 12:20 Evaluation of ARM Based System for Scientific Workloads, M. Pawlik, M. Czuchry, K. Noga, J. Budzowski, M. Sterzel, Ł. Flis, P. Lasoń, M. Magryś 12:35 Running Workloads on the Prometheus Cluster with Singularity, J. Kapała, J. Meizner, P. Nowakowski, P. Wójtowicz, M. Bubak
12:50 - 14:20	lunch
14:20 - 16:00	Session S4: <i>Chair: Paweł Russek</i> Invited talk 14:20 Quantum Computing – Current Status and Perspectives, K. Rycerz Contributed papers

	<p>15:00 Computational Backend for Simulation-Based Reinforcement Learning with Application to Real-World Autonomous Driving, B. Osiński, A. Jakubowski, P. Miłoś, P. Zięcina, K. Galias, H. Michalewski</p> <p>15:15 Brute-Forcing Spin-Glass Problems with CUDA, K. Jałowiecki, M. M. Rams, B. Gardas</p> <p>15:30 Acceleration of Box Packing Algorithm Using OpenMP and CUDA, R. Frączek, A. Dorobisz, P. Russek, K. Wiatr</p> <p>15:45 Converting MPI Code to the MPI+OpenMP Hybrid, A. Dorobisz, M. Czuchry, K. Noga</p>
16:00 - 16:20	coffee
16:20 - 17:50	<p>Session S5: Contributed papers, <i>Chair: Janusz Orkisz</i></p> <p>16:20 NLP: Training with Too Little Data, M. Karwatowski, M. Wielgosz, M. Pietroń, D. Żurek, K. Piętak, K. Wiatr</p> <p>16:35 Modelling Mechanical Properties of Aluminum Matrix Composite by Counter Propagation Network, B. Sułkowski, M. Majchrowska</p> <p>16:50 Multistart Approach to Identification of Phase Transformation Models for Steels Using HPC Infrastructure, D. Bachniak, D. Szeliga</p> <p>17:05 Structural and Electronic Properties of Multifunctional Carbon Composites of Organometal Halide Perovskite, S. Klejna</p> <p>17:20 Approximating Two-Electron Integrals with Pyramidal Convolutions, A. Mreńca-Kolasińska, K. Kolasiński, B. Szafran</p> <p>17:35 Steric and Electrostatic Stabilization in Unusual Beryllium(0) Complexes – Theoretical Research Based on Density Functional Theory (DFT), A. Ptaszek, F. Sagan, P. Kubisiak, M. P. Mitoraj</p>
19:30 - 23:00	<p>Dinner in „Karczma Regionalna Przy Młynie” ul. Bulwary Słowackiego 23, Zakopane</p>
Friday, March 6, 2020	
9:00 - 10:20	<p>Session S6: Invited talks, <i>Chair: Karol Krawentek</i></p> <p>9:00 Navigating Intel’s Future in Technology, A. Jankowski, G. Kardaras</p> <p>9:30 The HPE Route to Quantum Computing, P. Lachamp</p> <p>10:00 Automatyzacja Zarządzania Środowiskami Sieciowo-Serwerowymi na Przykładzie Systemu NEDAPS, T. Paliczka</p>

10:20 - 10:40	coffee
10:40 - 11:55	<p>Session S7: Contributed papers, Chair: Jacek Niemiec</p> <p>10:40 Partnership for Advanced Computing in Europe Research Infrastructure – Scientific Opportunities, K. Noga, M. Czuchry, A. Dorobisz, M. Pawlik, J. Budzowski, Ł. Flis, P. Lasoń, M. Magryś, M. Sterzel, Ł. Dutka</p> <p>10:55 Kinetic Simulations of Mildly Relativistic Perpendicular Shocks, A. Ligorini, J. Niemiec, O. Kobzar, M. Iwamoto, T. Amano, M. Hoshino, Y. Matsumoto, M. Pohl</p> <p>11:10 Particle-In-Cell Simulations of the Cosmic Ray Leptons Interaction with Self-Generated Electromagnetic Turbulence, O. Kobzar, Ł. Stawarz</p> <p>11:25 Particle-In-Cell Simulations of Shock Waves in Merging Galaxy Clusters, K. Fułat, O. Kobzar, J. Niemiec</p> <p>11:40 Bayesian Analysis to Improve the Interpretation of Radiobiology Data, K. Jeleń, L. Grzanka</p>
11:55 - 12:15	coffee
12:15 - 13:30	<p>Session S8: Contributed papers, Chair: Klemens Noga</p> <p>12:15 Molecular Dynamics Study of Correlations in Ion Transport in MeTFSI/EMIM-TFSI (Me = Li, Na) Electrolytes, A. Eilmes, P. Kubisiak, P. Wróbel</p> <p>12:30 How the Shape of Macromolecules Affects Diffusion in Crowded Environments?, T. Skóra, F. Vaghefikia, J. Fitter, S. Kondrat</p> <p>12:45 Estimates of Electric Conductivity from Molecular Dynamics – How to Improve the Averaging, P. Kubisiak, A. Eilmes</p> <p>13:00 Classical and Ab Initio Molecular Dynamics of Magnesium Chloride Complexes in Dimethoxyethane Solutions, P. Wróbel, P. Kubisiak, A. Eilmes</p> <p>13:15 A Software for Pharmacotherapy Optimization Project PharmOPTIM, A. Mendyk, B. Baliś, M. Pawlik, L. Dekster, W. Turek, W. Frącz, B. Wiśniowska, Z. Tylutki, J. Szłęk, O. Shuklinova, M. Kisiel-Dorohinicki, A. Byrski, S. Polak</p>
13:30 - 13:40	Closing
13:40 - 14:40	lunch