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Intel one API AI Workshop October 14th, 2021

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AGENDA

Thursday; October 14th, 2021				
			TOPIC	Presenter
09:00	09:05	00:05	Welcome and Introduction to the Intel AI workshop	Edmund Preiss
			Morning Theme: Accelerated Machine Learning with Intel	
09:05	09:45	00:40	Hardware acceleration for AI and Intel® oneAPI AI Analytics Toolkit + Quiz	Dr. Séverine Habert
09:45	11:00	01:15	How to accelerate Classical Machine Learning on Intel Architecture + Quiz	Roy Allela
11:00	11:05	00:05	Bio Break	
11:05	12:15	01:10	Enhance your Experimentation with SigOpt + Quiz	Tobias Andreason
12:15	13:30	01:15	Lunch Break	
			Afternoon Theme: Accelerated Deep Learning with Intel	
13:30	14:50	01:20	Optimize Deep Learning on Intel – Same code just faster!	Shailen Sobhee
14:50	15:00	00:10	Bio Break	
15:00	15:40	00:40	Distributed Training + Quiz	Shailen Sobhee
15:40	15:50	00:10	Bio Break	
15:50	16:30	00:40	Easily speed up Deep Learning inference – Write once deploy anywhere!	Dr. Séverine Habert
16:30	16:35	00:05	Bio Break	
16:35	16:55	00:20	Quantization in Deep Learning + Quiz	Shailen Sobhee
16:55	17:00	00:05	Wrap up	Edmund Preiss

GOALS & LOGISTICS FOR TODAY

- Get a high level overview on Intel's oneAPI HPC Development Tools
- Focus on Intel's performance optimized oneAPI AI Analytics Toolkit
 - Classic Machine Learning
 - Deep Learning Development Toolkits
- Ask questions in the chat room
- Feedback / Questionnaires
- Quiz: Win one of 5 Neural Compute Sticks



https://software.intel.com/content/www/us/en/develop/hardware/neural-compute-stick.html

oneAPI – A Standard & Intel Development Tools





Intel® oneAPI Toolkits

A Complete Set of Proven Developer Tools Expanded from Intel CPU to Intel XPU /Accelerators



Native Code Developers



A core set of high-performance tools for building C++, Data Parallel C++ applications & oneAPI library-based applications

Add-on **Domain-Specific**Toolkits

Specialized Workload



Intel® oneAPI Tools for HPC

Deliver fast Fortran, OpenMP & MPI applications that scale



Intel® oneAPI Tools for IoT

Build efficient, reliable solutions that run at network's edge



Intel® oneAPI Rendering Toolkit

Create performant, high-fidelity visualization applications

Toolkits powered by oneAPI

Data Scientists & Al Developers



Intel® AI Analytics Toolkit

Accelerate machine learning & data science pipelines with optimized DL frameworks & high-performing Python libraries



Intel® Distribution of OpenVINO™ Toolkit

Deploy high performance inference & applications from edge to cloud

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- Questions about content presented today
- Winnining Formula: Speed and Correct answers
- Please take a monitor snapshot of winner announcement with your name
 - Use name that correlates with your email address
- Send snapshot from your email address to edmund.preiss@intel.com

OTHER (RECORDED) TOOLS WEBINARS

Intel® oneAPI Rendering Tookit Webinar (1 day):

Rendering 08.06.2021:

https://www.ai-spektrum.de/veranstaltungen/intel-oneapi-rendering-toolkit-workshop.html

Make use of simulated data and virtualize them in high fidelity photo realistic fashion

Intel® oneAPI AI Analytics Toolkit webinar – 1 day:

Al webinar on 15.06.2021:

https://www.ai-spektrum.de/veranstaltungen/artificial-intelligence-on-intelr-platforms-using-intelr-oneapi-ai-analytics-toolkit-openvino-workshop.html

Intel performance optimized AI tools kits for classic and machine learning

Intel® oneAPI technical Webinar (2 days) - co-hosted with Zuse Institute Berlin

oneAPI Webinar on March 2nd and 3rd, 2021

https://www.zib.de/workshops/2021/oneapi

https://www.hlrn.de/doc/display/PUB/Joint+NHR@ZIB+-+INTEL+++oneAPI+Workshop

SATG