

# ISRAELDEVCON 2022

The 16<sup>th</sup> conference for software developers by software developers  
June 21 - 23, Hilton Tel Aviv

## AGENDA Tuesday June 21

MAIN SESSION FOR ALL ATTENDEES – BALLROOM HALL			
08:00	Registration and light breakfast		
09:00	<p><b>Opening Keynotes - Moderation by Netta Ahituv</b></p> <p>Opening Remarks: Chaim Ron, Software Sources, Nicolas Rannou &amp; Ralph de Wargny, Intel Software</p> <p>Yaron Samid – The Israeli Startup Ecosystem Founder &amp; Managing Partner of TechAviv</p> <p>Tzahi Weisfeld (Intel) &amp; Alon Grinshpoon (Echo3D) VP &amp; General Manager, Intel Ignite for Startups</p> <p>Guy Tamir (Intel) &amp; Alastair Murray (Codeplay Software) – Software Innovation in the Open Standards Developer Ecosystem Director, Technology evangelist, Intel Software</p> <p>Stephan Gillich – Accelerating the Future of Computing Director, Intel Accelerated Computing Platforms, Data Center &amp; AI Group</p>		
11:00	Coffee Break		
	TRACK 1 Enterprise & Technical Computing	TRACK 2 AI & Machine Learning	TRACK 3 Cyber Security
11:15	OneAPI Essentials for the performance-oriented developers <i>Guy Tamir – Director, Technology evangelist, Intel</i>	Deep Learning hardware and Software solutions by Habana Labs <i>Eitan Medina, Habana Labs</i>	How can AI be used to capture and prevent cyber security attacks <i>Yoni Kahana, Wireless Communication Solution Security Champion, Intel &amp; Yaron Klein, Security researcher, Intel</i>
11:45	Profile CPU and GPU Workload Performance using Intel® VTune™ Profiler <i>Eli Eliezer, System and Software Optimization Specialist, Intel</i>	Accelerating AI Workloads on the CPU with AMX - Advanced Matrix Extensions <i>Menachem Adelman, Intel</i>	A Developer's Introduction to Side-Channel Attacks <i>Yossi Oren, Researcher in Residence, Intel &amp; Senior Lecturer, Ben Gurion University</i>
12:15	OpenMP GPU offload <i>Stephen Blair-Chappell- Bayncore</i>	Introducing AI on Intel: from model training to deployment <i>Séverine Habert, Customer Engineering Manager, Intel AI Software</i>	How to stop missing security bugs <i>Yoni Kahana, Wireless Communication Solution Security Champion, Intel and Yaron Klein, Security researcher, Intel</i>
12:45	60 min Lunch Break		
13:45	Migrating from CUDA to open standards programming with SYCL and oneAPI <i>Hugh Delaney, Software Engineer, Codeplay Software</i>	From Research to Real World - Latest advanced in Computer Vision <i>Kostya Proskudin – CTO and co-founder Hasty.ai</i>	Cyberattacks and business: bridging the gap through zero trust <i>Harish Sekar, Senior Cybersecurity Expert, Zoho ManageEngine</i>
14:15	SYCL: Open Your Code to More Hardware Choices <i>Guy Tamir – Director, Technology evangelist, Intel</i>	Enabling AI Developers on their Journey to Scale with Intel AI <i>Eyal Farkash, Technology Lead, Accenture</i>	How your IAM policies could be a gateway to a breach <i>Harish Sekar, Senior Cybersecurity Expert, Zoho ManageEngine</i>
14:45	When securing C++ code, use C++ solutions <i>Yair Friedman, Intel</i>	Business transformation through Accelerated Computing <i>Ryan Metz, Technical Director, oneAPI for Startups</i>	Unifying Endpoint Security Strategies in Enterprises – Endpoint Management <i>Meera Athiyarath, Cyber Security Expert, Zoho ManageEngine</i>
15:15	Echo3D accelerates Metaverse cloud processing with Intel <i>Eli Eliezer, System and Software Optimization Specialist, Intel Ben Pedazur – CTO Echo3D</i>	Enabling AI for developers with cnvrg.io <i>Orly Amsalem, VP of AI Innovation &amp; Business Development</i>	Unifying Endpoint Security Strategies in Enterprises – Endpoint Security <i>Meera Athiyarath, Cyber Security Expert, Zoho ManageEngine</i>
15:45	ABBYY Vantage OCR Solutions for the Developer <i>Shiri Shalom, Product Manager, Software Sources</i>	AI Innovations and their Applications at Intel <i>Amitai Armon, Intel AI CTO</i>	Hex-Rays IDA Pro - Powerful Disassembler Toolkit for the Cyber Developer <i>Chaim Ron– Founder &amp; Chairman, Software Sources</i>
16:15	Coffee Break and Networking		
16:30	Prizes Raffle (הגרלת פרסים בין הנוכחים באולם בלבד): Microsoft XBOX 1TB SSD with Stereo Gaming Headset and ABBYY FineReader PDF Licenses		
16:45	End		

## June 22 & 23 - Technical Workshops

Deep-dive technical sessions for Developers, Data Engineers, and Founders  
presented by Intel engineers and partners

### Wednesday June 22 - Workshop oneAPI

#### Learn all about oneAPI

Hilton Tel Aviv – Jaffa Room, 1 <sup>st</sup> Floor	
08:00	Registration and light breakfast
09:00	Opening Remarks
Theme 1: OneAPI Programming	
09:20	<p>Building modern apps for heterogenous platforms using oneAPI (Part 1) – Guy Tamir/ Eli Eliezer</p> <ul style="list-style-type: none"> <li>Libraries and compilers for high performance code across architectures: CPU, GPU, FPGA</li> <li>All about SYCL and the new C++ world</li> <li>Modern parallel programming with C++ and Python</li> <li>Tuning and optimizing the performance of parallel code</li> </ul>
10:45	Coffee break
11:15	<p>Building modern apps for heterogenous platforms using oneAPI (Part 2) – Guy Tamir/ Eli Eliezer.</p> <ul style="list-style-type: none"> <li>Libraries and compilers for high performance code across architectures: CPU, GPU, FPGA</li> <li>All about SYCL and the new C++ world</li> <li>Modern parallel programming with C++ and Python</li> <li>Tuning and optimizing the performance of parallel code</li> </ul>
13:00	Lunch
14:00	<p>Stephen Blair-Chappell interviews Tom Deakin (University of Bristol) on his oneAPI portability and performance work A live interview with Tom Deakin, Chair of the Khronos SYCL Advisory Panel and member of the SYCL Working Group</p>
Theme 2: OneAPI AI Analytics	
14:30	<p>How to accelerate Classical Machine Learning on Intel Architecture – Séverine Habert / Ryan Metz</p> <p>In this session, we will cover the Intel-optimized libraries for Machine Learning. Python* is currently ranked as the most popular programming language and is widely used in Data Science and Machine Learning. We will begin by covering the Intel® Distribution for Python and its optimizations. We will then cover the optimizations for ML Python packages such as Modin, Intel® Extension for Scikit-learn and XGBoost. The presentations will be accompanied with demos to showcase the performance speedup</p>
15:30	Coffee break
16:00	<p>OneAPI Lab (Hands-On) – Laptop needed – Ryan Metz / Séverine Habert</p> <p>In this hands-on session you will get an opportunity to try out some of the techniques and examples that have been shown to you earlier in the day. To participate in this lab you will need to register for access to the Intel® DevCloud and have brought with you a laptop with an SSH client installed (Linux, Windows or Mac).</p> <p><i>Should you not be able to join us in the lab, the examples and instructions will be made available so that you can try out them on your own later.</i></p>
17:30	End of Day

## Thursday June 23 - Workshop AI / OpenVINO

Learn all about AI on Intel using oneAPI and OpenVINO

Hilton Tel Aviv – Jaffa Room, 1 <sup>st</sup> Floor	
08:00	Registration and light breakfast
09:00	Opening Remarks
09:15	How to accelerate Deep Learning on Intel Architecture – Séverine Habert / Ryan Metz In this session, we present to you what is behind the scenes of Deep Learning with the highly optimized Intel® oneDNN library in order to get the best-in-class performance on Intel hardware. We then show you Intel® oneDNN in action in DL frameworks such as the Intel-optimized TensorFlow, Intel-optimized PyTorch and the Intel® Extension for PyTorch (IPEX).
10:45	Coffee break
11:15	Optimization Techniques for Deep Learning – Eli Eliezer / Ryan Metz In this session we consider different optimisation techniques such as quantisation and consider the trade-offs between performance and results accuracy
Theme 3: OpenVINO	
12:00	Using the OpenVINO™ Toolkit for Deploying Accelerated Deep Learning Applications (Part 1) – Ryan Metz / Eli Eliezer Learn how the Intel® Distribution of OpenVINO™ toolkit makes it easier for developers everywhere to start creating. Import models into OpenVINO using the Post-Training Optimization Tool for post-training quantization and optimization. Deploy your same application across combinations of host processors and accelerators (CPUs, GPUs, VPUs) and environments (on-premise, on-device, in the browser, or in the cloud).
12:30	Customer Story: DIA Imaging Analysis – Elad Goshen VP R&D Collaboration with Intel Corporation to Accelerate Processing Time of its AI-based Cardiac Ultrasound Software in Hospitals
13:00	Lunch
14:00	Using the OpenVINO™ Toolkit for Deploying Accelerated Deep Learning Applications (Part 2) – Ryan Metz / Eli Eliezer Learn how the Intel® Distribution of OpenVINO™ toolkit makes it easier for developers everywhere to start creating. Import models into OpenVINO using the Post-Training Optimization Tool for post-training quantization and optimization. Deploy your same application across combinations of host processors and accelerators (CPUs, GPUs, VPUs) and environments (on-premise, on-device, in the browser, or in the cloud).
15:00	OpenVINO on Intel Edge Dev Cloud - (Hands-On) – Laptop needed – Ryan Metz In this hands-on session you will get an opportunity to try out some of the techniques and examples that have been shown to you earlier in the day. To participate in this lab you will need to register for access to the Intel® DevCloud and have brought with you a laptop with an SSH client installed (Linux, Windows or Mac). <b>INCLUDES INFORMAL COFFEE BREAK AT 15:30</b> <i>Should you not be able to join us in the lab, the examples and instructions will be made available so that you can try out them on your own later.</i>
16:30	End of Day