FPGA Conference EUROPE

Program 2026

3 Days - 100 Percent Knowhow

organized by ELEKTRONIK PRAXIS PLC2

	DAY 1 | Tuesday, June 30					
8:20 - 8:30 am	Welcome Session: Nikolai Krassin | PLC2 & Maria Beyer-Fistrich | Vogel Communications Group					
8:30 - 8:55 am	OPENING SPEECH: Altera 3.0, Full range Independent FPGA Supplier | Thomas Boudrot - Altera					
	Application	Language / Debug / Verification	Architecture	Tools & Methodologies	Safety & Security	Tutorial
9:00 am - 10:30 am	Christopher Hatch - AMD **AMD Embedded Design Framework – Embedded Software Stacks Supporting Multiple Software Domains Focusing on Open Source for Easier Long-Term Maintenance** (40 min)	James Goodhead - University of Cape Town (CERN) **Design of the CERN ALICE 3 TOF Readout System and Validation Testing Performed on a FPGA-Based Emulation Test Bench** (40 min)	Patrick Urban - Cologne Chip **Time-to-Digital-Converter (TDC) with less than 5ps resolution for GateMate FPGA** (40 min)	Stefan Rooseboom - Pro Design Electronic **End-of-Production Test Methodology and Automation for FPGA-Based Systems – Lessons Learned from a Concrete Case Study** (40 min)	Martin Kellermann - Microchip Technology & Owen Millwood - WIZnet Germany **Organic Cybersecurity and Cyberresilience** (40 min)	Andy Walton & Pavel Benacek - Pantherun Technologies **P4: Flexibility and Quicker Development for FPGA Packet Processing Sub-Systems** (90 min)
	David Kirchner - World of FPGA **Communication in Multi-FPGA Systems** (40 min)	Salma Hamdoun - Arrow Central Europe **FPGA Verification and Testing** (40 min)	Stefan Unrein - plc2 Design **Demystifying the AMD RFSoC** (40 min)	Hervé Ratigner - AMD **Advancing AMD Vitis™ HLS: Performance-Driven Design and the Path Toward AI-Assisted Development** (40 min)	Matti Tommiska - Xiphera **Common Framework for FPGA-based Hardware Root of Trust** (40 min)	
10:30 - 11:15 am	Coffee Break and Visit of the Exhibition					
11:15 am - 12:45 pm	Maximilian Werner - Efinix **Enable Higher System Integration with Efinix's Small Footprint and SiP FPGAs** (40 min)	Jim Lewis - SynthWorks Design **Tracking Requirements with OSVVM** (40 min)	Oner Hanay - INCIRT **Redefining the Limits of Data Converters: Power-Efficient Fourier-Domain Data Converters for RF-SoC and FPGA Systems** (40 min)	Oliver Bründler - Open Logic **CDCs, FIFOs, and Width Converters: How to Combine Open Logic Building Blocks Correctly** (40 min)	Christian Mueller - Lattice Semiconductor **Trusted Resilience Edge: Unified FPGA-TPM for Post-Quantum Cryptography RED & Cyber Resilience Act** (40 min)	Ernst Wehlage - PLC2 **Design Practice: Clock and Reset Management** (90 min)
	Helmut Demel - Lattice Semiconductor **SIPHash IP for Embedded Security Enabling RED Compliance and CRA Readiness in Smart ARVR Systems** (40 min)	Jim Lewis - SynthWorks Design **OSVVM's Advanced Verification Data Structures** (40 min)	Fabian Kluge - Efinix **Thermal Management on Efinix FPGAs** (40 min)	Cagil Gumus - DESY **fwk: A Platform-Independent, Open-Source Framework for Heterogeneous SoC Development in Scientific Instrumentation** (40 min)	Saadeddine Ben Jemaa - Arrow Central Europe **Building Secure FPGA Systems – Protecting IP and Data at the Edge** (40 min)	
12:45 - 1:30 pm	Lunch Break and Visit of the Exhibition					
1:30 - 2:10 pm	DIAMOND SPONSOR KEYNOTE SPEECH: Purpose-Built Engines: From Edge Intelligence to Physical AI | Michael Hutchison - AMD					
2:10 - 2:15 pm	Change Rooms					
2:15 pm - 3:45 pm	Fabian Kluge - Efinix **Highly integrated Low Latency Datapath Designs with Efinix SerDes Devices** (40 min)	Espen Tallaksen - EmLogic AS **UVVM : The UVM for VHDL – only simpler** (40 min)	Bryan Fletcher - AMD **Overcoming the Data Explosion: Optimizing Connectivity, Memory, and Compute with AMD Kintex™ UltraScale+™ Gen 2 FPGAs** (40 min)	Yılmaz Gürak & Furkan Keskin - Bull Technologies **NanoShield: An FPGA-CPU Hybrid Architecture for Ultra-Low Latency Pre-Trade Risk Management in Compliance with MiFID II** (40 min)	Ido Wermuth - Arrow Central Europe **Introduction to FPGA Security: Building a Hardware Root of Trust** (40 min)	∞ In memory of Guy Eschemann ∞ Patrick Lehmann - plc2 Design **EDA²: Running OSVVM Simulations from Python** (90 min)
	Timor Knudsen - AMD **Mini-ISP – an Open-Source Image Signal Processor for AMD Adaptive SoCs and FPGAs** (40 min)	Espen Tallaksen - EmLogic AS **Assertions in VHDL and UVVM, Plus the newest features of UVVM** (40 min)	Dr. Jörg Pospiech - ATV **Cost-Effective Industrial Functional Nodes with USB 3 on Spartan UltraScale+ Platform** (40 min)	Oren Hollander - HandsOn Training **Beyond the Bitstream: Protecting Modern FPGAs from Physical Attacks** (40 min)	N.N. ***Lecture in consultation with the program chair*** (40 min)	
3:45 - 4:30 pm	Coffee Break and Visit of the Exhibition					
4:30 pm - 6:00 pm	Prof. Dr. Bernhard Lang - Hochschule Osnabrück **FPGA components for direct AXI-Stream to UDP/IP/Ethernet Networking** (40 min)	Matthias Kern - P2L2 **Open Source HDL Co-Simulation with AMD Alveo** (40 min)	Armin Faems - Arrow Central Europe **How to maximize the utilization of GTS Channels in Altera Agilex 3 & 5?** (40 min)	Martin Kellermann - Microchip Technology & Martin Jaiser - Pantherun **Plug-and-play inline AES-encryptor to protect modern and legacy systems** (40 min)	Roger May - AMD **Designing for Security** (40 min)	Dr. Karsten Trott - Xilinx, an AMD Company **Performance Improvements of Deep Learning Accelerator Systems** (90 min)
	Jonathan Graf - Graf Research Corporation **Bitstream Equivalence Checking for High-Assurance FPGA Systems** (40 min)	Tommaso De Vivo - XJTAG **Making Electronics Under Pressure** (40 min)	Afifa Ishtiaq - Altera **From Bring-Up to Deployment: High-Speed Transceiver Development on Altera Agilex 5 FPGAs** (40 min)	Prof. Dr. Markus Pfaff - FH Oberösterreich **Don't! Vol. 2 - Frequently encountered FPGA Design Quirks You better avoid** (40 min)	Stephan Strohmeier & Harald Friedrich - NewTec **FPGAs, Artificial intelligence and functional safety - is this possible?** (40 min)	
from 7:00 pm	The FPGA Conference 2026 - Evening Event @ Motorworld Inn in Munich sponsored by AMD					

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DAY 2 | Wednesday, July 1

	Application	Language / Debug / Verification	Architecture	Tools & Methodologies	Embedded / Vision	Tutorial
9:00 am - 10:30 am	Korbinian Wildwasser - Arrow Central Europe & Thomas Siebert - Altera **Implementing DDR5 and LPDDR5 EMIF Interfaces on Altera Agilex low-end and mid-range families** (40 min)	Tom Richter - The MathWorks **From Models to Testbenches: Accelerating FPGA Verification with MATLAB & Simulink** (40 min)	Dr. Hardik Shah - Lattice Semiconductor **Solving Your Power Puzzle: Lattice FPGAs' Path to Uncompromised Low Power** (40 min)	Andreas Büttner - Efinix **How-to Run a Efinix FPGA Design Without Leaving the Command Line** (40 min)	Wail Alkalbani - Telecommunications Regulatory Authority - Sultanate of Oman **RISC-V–Based Cellular Threat Detection** (40 min)	Jim Lewis - SynthWorks Design Inc **Getting Started with OSVVM, VHDL's #1 Verification Methodology** (90 min)
	Alexander Flick - PLC2 **Multiboot for Design Variants and Field Update in Adaptive SoCs** (40 min)	Martin Heimlicher & Simon Heimlicher - Xipera **XiperPy from Xipera: Making Hardware Design Accessible to Software Engineers** (40 min)	Christian Michel - Lattice Semiconductor **Unlock Next-Gen SDR Design for SWaP-C using Lattice FPGAs** (40 min)	Ahmad Alothman - Avnet EMG & Martin Kellermann - Microchip Technology **Power-Efficiency vs. Performance, Scaling for Power** (40 min)	Tolga Sel - Arrow Central Europe **MIPI CSI-2 Lab with Agilex3** (40 min)	
10:30 - 11:15 am	**Coffee Break and Visit of the Exhibition**					
11:15 am - 12:45 pm	Thomas Zerrer - Smartlogic **PCI Express Data streaming directly into the GPU** (40 min)	Adrian Weiland & Patrick Lehmann - plc2 Design **Mocking a AMD MPSoC with OSVVM Verification Components** (40 min)	Dr. George Athanasiou - CAST **Post-Quantum Cyber Resilience for Automotive SoCs: Crypto-Agile FPGA Architectures** (40 min)	Marco Höfle - Avnet EMG **From C++ to RTL: A practical AMD Vitis™ HLS Example** (40 min)	Kevin Keryk - AMD **Building Adaptive Systems that Scale, Using Video as an Example Application** (40 min)	Tolga Sel - Arrow Central Europe **PART2: MIPI CSI-2 Lab with Agilex3 (Hands-on)** (90 min)
	Jürgen Dobaj - Yarix **The Safety-Security Nexus: Harmonizing CRA and Machinery Regulation in the FPGA Lifecycle** (40 min)	Markus Leiter - P2L2 **Inside UVVM: Architecture and Design of Custom Verification Components** (40 min)	Sheik Abdullah - iWave Global **From External RF Chains to Direct RF: A 64GSPS Wideband SDR Architecture** (40 min)	Navid Jalali - plc2 Design **Visualizing Metrics from AXI Performance Monitors in Prometheus/Grafana** (40 min)	Brian Colgan & Martin Kellermann - Microchip Technology **FPGA Vision: Bridging and Broadcast** (40 min)	
12:45 - 1:30 pm	**Lunch Break and Visit of the Exhibition**					
1:30 - 2:00 pm	**KEYNOTE SPEECH: Security and Physical AI: FPGA Architectures for Systems That Sense and Act | Raemin Wang - Lattice Semiconductor**					
2:00 - 2:15 pm	**Short Break and Change Rooms**					
	Application	**Language / Debug / Verification**	**Architecture**	**Tools & Methodologies**	**Board Design & Connectivity**	**Tutorial**
2:15 pm - 3:45 pm	Baruch Mitsengendler - The MathWorks **Model-Based Deployment of Deep Learning on FPGAs Using a Reusable HDL Processor Architecture** (40 min)	Patrick Lehmann & Stefan Unrein - plc2 Design **PoC-Library v3.0: AXI4(-Lite) Interconnect Infrastructures** (40 min)	Keith Lumsden - AMD **AMD Versal™ RF Series: Bridging the Gap Between RF and Digital Compute** (40 min)	Oren Hollander - HandsOn Training **Don't Just Compile: Outsmarting the Synthesizer for Peak FPGA Performance** (40 min)	Alex Lopich - Altera **Supercharging HDR Vision: Multi Exposure Fusion and Adaptive Tone Mapping for FPGA Powered Cameras** (40 min)	Espen Tallaksen - EmLogic AS **The Inside of a Good VHDL Verification Component** (90 min)
	Rolf Broeske - SMART Engineering **Predictive Thermal Management as the Key to System Reliability** (40 min)	Hans-Jürgen Schwender - Var Industries **FuSa Compliant Verification Flow with Questa Verification IQ** (40 min)	Stefan Unrein - plc2 Design **Overcome PCB mistakes with FPGAs** (40 min)	Mihaly Nemeth-Csoka - Heitec AG **FPGA Development on Linux: The time is now** (40 min)	Marco Höfle - Avnet EMG **System Simulation of Zynq UltraScale+™ and Versal™ Designs using a MicroBlaze™ V Processor** (40 min)	
3:45 - 4:30 pm	**Coffee Break and Visit of the Exhibition**					
4:30 pm - 6:00 pm	Francesco Contu - Avnet EMG Italy **Multi-Gigabit Links Optimization and Troubleshooting Using IBERT** (40 min)	Michal Pacula - Aldec-Adt **Quantum Qiskit HDL Co-Simulation** (40 min)	Alexander Flick - PLC2 **Versal Adaptive SoC Family: Enhanced Portfolio with Versal AI Edge Gen2 and Versal Prime Series Gen2** (40 min)	Prof. Dr. Bernhard Lang - Hochschule Osnabrück **Recycling Tricky Historical Algorithms for FPGA Usage: Toepler's Algorithm for Numerical Root Computation** (40 min)	Brian Colgan & Martin Kellermann - Microchip Technology **Deterministic Vision and Precision Control Architectures for Humanoid Robots** (40 min)	Espen Tallaksen - EmLogic AS **Enhanced Randomisation and Functional Coverage, Including the Latest Questa UVVM Extensions** (90 min)
	Francesco Contu - Avnet EMG Italy **RF_SOC Advanced Usage: Multi-channel and Multi-chip Synchronization** (40 min)	Michal Pacula - Aldec-Adt **Leveraging 64-bit Integers - Range, Precision, OSVVM AXI and Big Memories for VHDL Designs** (40 min)	Karl Wachswender - Lattice Semiconductor **Role of Low Power FPGAs in physical AI – Sensor Fusion, Compute Offloading, and Synchronization** (40 min)	Dr. Kamil Rudnicki - Brightelligence **The Hidden Tax of Bad FPGA Project Methodology** (40 min)	Ernst Wehlage - PLC2 **AMD FreeRTOS to Zephyr** (40 min)	

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DAY 3 | Thursday, July 2

	Application	Language / Debug / Verification	Architecture	Tools & Methodologies	Embedded / Vision	Embedded AI Tracks (see next page)
9:00 am - 10:30 am	Dr. Aurang Zaib - Microchip Technology **Enabling Low-Latency Applications at the Industrial Edge with FPGA-Based Acceleration** (40 min)	Elijah Almeida Coimbra - Topic Embedded Systems **Re-use Human-Readable Test Cases for Different Test Levels (Unit/System) Using CocoTB and BDD** (40 min)	Ernst Wehlage - PLC2 **Understanding the FSBL** (40 min)	Prof. Dirk Koch - Universität Heidelberg **Open-Source Tools for Commercial FPGAs are There - and There is More to it** (40 min)	Alexander Wirthmueller - MPSI Technologies **Implementation of a Computer Vision Project on Multiple Platforms** (40 min)	Embedded AI Tracks
	Alex Lopich - Altera **Precision Warping for Advanced Imaging: When Optics Get Weird, FPGAs Step In** (40 min)	Peter Fischer - Eccelerators **Trapped by FPGA Complexity? Applying Software Methodologies to Regain Momentum** (40 min)	Mike Rather - AMD **Overcoming Compute Memory Bottlenecks – It's "On the Package"** (40 min)	Oron Port - DFiant **Intro to DFHDL, an Opensource Multi-Abstraction Hardware Description Framework** (40 min)	Alberto Venzo - Spiral Engineering **Image Sensor Integration in FPGA** (40 min)	
10:30 - 11:00 am	**Coffee Break and Time for Networking**					
11:00 am - 12:30 pm	John Heslip - AMD **Beyond the Lid: Maximizing Thermal Efficiency in Modern High-Performance Devices** (40 min)	Krzysztof Czyz & Mateusz Maciąg - Embevity **Resource Efficient DMA for FPGA Streaming Pipelines Implemented in SpinalHDL** (40 min)	Stefan Garcia - Altera **Implementing Real-Time Applications on Modern ARM v8.2–Based FPGA SoCs** (40 min)	Alexander Flick - PLC2 **Exploring the AMD Adaptive SoC Design Flow with the Vitis(TM) Unified IDE** (40 min)	Benjamin Mecke - Arrow Central Europe **MIPI CSI 2 to USB 3.2 Video Pipeline with CrossLinkU NX** (40 min)	
	Georg Hanak - Achronix Semiconductor Corporation **Implementing high-speed FIR Filter in Achronix Speedster7t FPGAs** (40 min)	Bernhard Wandl - P2L2 **hdl-registers: The Smart Way to Build AXI-Lite IP Cores** (40 min)	Angelo Lo Cicero - Altera & Giorgiomaria Cicero - Accelerat **Deterministic Execution of Real-Time Workloads on Agilex 5: a Multi-Domain Approach** (40 min)	Ernst Wehlage - PLC2 **From PetaLinux to Yocto EDF** (40 min)	Atakan Tosun - Heitec **Why Not Just Use a GPU? A Critical Case Study of High-Level Synthesis on FPGA vs. CPU and GPU** (40 min)	
12:30 - 1:30 pm	**Lunch Break and Time for Networking**					
1:30 pm - 3:00 pm	Nicolay Garcia - Monolithic Power Systems **Space-Optimized PMIC Power Modules for FPGAs: Up to 80% Smaller Total Solution Area** (40 min)	Hannes Bachl - Ostbayerische Technische Hochschule **Bottom-up Radiation Hardness Assurance for FPGA Based Software Defined Radios** (40 min)	Michel Pedimina - Pantherun **Pepper: The Open-Source FPGA-Based Rapid Development Board and Environment for Secure Edge Innovation** (40 min)	Ernst Wehlage - PLC2 **The New Spartan UltraScale+ Family** (40 min)	Konstantin Dobrosolets - Altera **Technical Advantages of the HyperFlex Gen2 Architecture in Altera Agilex 3 and Agilex 5 FPGAs** (40 min)	
	Benjamin Mecke - Arrow Central Europe **Reset Strategies** (40 min)	Patrick Lehmann - plc2 Design **EDA²: Post-processing EDA Tool outputs** (40 min)	Andreas Schuler - Missing Link Electronics **Beyond the Bitstream: Streamlining Heterogeneous Computing with the MLE FPGA Full System Stack** (40 min)	Pablo Mendoza Eguiguren - Indra Sistemas **A Flexible and Scalable YOLO-Specific DPU for Real-Time FPGA Acceleration** (40 min)	Helmut Demel - Lattice Semiconductor **Smarter Robotics with Lattice FPGAs: From Vision to Motion** (40 min)	
3:00 - 3:30 pm	**Coffee Break and Time for Networking**					
3:30 pm - 5:00 pm	Matteo Vit - Starware Design **PCIe in Embedded FPGA Companion Chips: Implementation, Performance, and Verification** (40 min)	Dr. Harald Simmler - Ing. Buero Harald Simmler **The Power of High Level Co-Simulation for HDL Designs** (40 min)	Armin Faems - Arrow Central Europe **Implementation of Nios V with HyperRAM in Altera Agilex FPGA** (40 min)	Oliver Bründler - Enclustra **Mistakes to Avoid in High-Rate RFSoC Designs** (40 min)	Burak Gazel - Aselsan **Enabling Fault Tolerance in an FPGA-Based RISC-V Processor Through Lockstep Detection and Replay Recovery** (40 min)	
	Christian Michel - Lattice Semiconductor **Crypto-Factories: Homomorphic Encryption Powers FPGA-Accelerated Confidential Computing for Industrial Edge AI** (40 min)	Denis Vasilik - Eccelerators **What Software Development Got Right - And FPGA Design Can Now Use** (40 min)	Angelo Lo Cicero - Altera **Robotics with Altera FPGA** (40 min)	Armin Faems & Philipp Henze - Arrow Central Europe **Developing with Lattice Propel** (40 min)	Volker Urban - Ingenieurbüro Dipl.-Ing. Volker Urban **Emulation of Classic CPUs – a SoC-friendly Hybrid Approach** (40 min)	

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DAY 3 | Thursday, July 2

	Embedded AI - #1	Embedded AI - #2	Embedded AI - #3	Embedded AI - #4
9:00 am - 10:30 am	Alexander Flick - PLC2 **AI Basics: From image processing to perception and beyond** (40 min)	Yunus Kök & Burak Aykenar - Anadologic **FPGA-Accelerated Multi-Camera AI Vision for High-Speed Industrial Inspection on Kria KR260** (40 min)	Christian Mueller | Lattice Semiconductor **Efficient 360° Threat Detection for Parked Vehicles - A Distributed, Event-Driven Approach** (40 min)	Alexander Montgomerie-Corcoran - Heronic Technologies **Reinventing Super Resolution at the Edge: Custom FPGA AI Engines That Outrun GPUs** (40 min)
	Alexander Flick - PLC2 **Inside Edge AI: Processing Paradigms and Architectural Hints** (40 min)	Karl Wachswender - Lattice Semiconductor **Building State of the Art Computer Vision Models for the Far Edge** (40 min)	Yashwant Dagar - CraftifAI **PipeGen: Agentic AI to Generate, Debug, and Deploy End-to-End Edge AI Pipelines** (40 min)	Tolga Sel - Arrow Central Europe & Helmut Plötz - ONE WARE **AI for Everyone with Altera Agilex3** (40 min)
10:30 - 11:00 am	**Coffee Break and Time for Networking**			
11:00 am - 12:30 pm	Saad Qazi - EBV Elektronik **Reality Over Peak Specs: Constraints Driven Platform Selection for Edge AI** (40 min)	Oren Hollander - HandsOn Training **Silicon Brains vs. Silicon Gates: Can LLMs Replace the FPGA Engineer?** (40 min)	Dr. Calliope-Louisa Sotiropoulou - CAST **Breaking the Data Bottleneck: Hardware-Accelerated Lossless Compression for Next-Generation AI Systems** (40 min)	FliX Feng & Jimmy Chou - Infineon Technologies **Accelerating Adoption of USB 10Gbps I/O in Edge AI and Embedded Systems** (90 min)
	Alexander Flick - PLC2 **BYOM – Custom Model Edge Inference with Vitis AI** (40 min)	Andreas Büttner - Efinix **Accelerating Edge AI with Efinix FPGAs: TinyML and eCNN for Real-World Applications** (40 min)	Brian Colgan & Martin Kellermann - Microchip Technology **One Size Does Not Fit All: Power-Efficient Vision AI on FPGAs and Beyond** (40 min)	
12:30 - 1:30 pm	**Lunch Break and Time for Networking**			
1:30 pm - 3:00 pm	Denis Vasilik - Eccelerators **An Experiment in AI-Assisted FSMs on FPGAs** (40 min)	Georg Hanak - Achronix Semiconductor Corporation **Design Techniques for High-Performance Low-Latency LLM Inferencing on FPGAs optimized for AI** (40 min)	Karl Wachswender - Lattice Semiconductor **Beyond the "Sledgehammer": Implementing Physical AI at the Sensor to Offload Robotic SoCs** (40 min)	Tomasz Iwanski - Arrow Central Europe **Altera FPGA AI Suite: A Practical Deep Dive** (90 min)
	Dr. Michael Gude - Cologne Chip **Next Generation quasi-analog Neuron AI Chip and FPGA** (40 min)	David Hintringer - TRS-STAR **Low-Power Low-Latency Edge AI with FPGAs: Balancing Performance, Power, and Complexity** (40 min)	John Courtney - AMD **AMD Vitis™ AI Tools Workflow: Compilation, Hardware Deployment & Profiling** (40 min)	
3:00 - 3:30 pm	**Coffee Break and Time for Networking**			
3:30 pm - 5:00 pm	Alexander Flick - PLC2 **Beyond the Architecture - A Forensic, Data-Centric Approach to Image Detection** (40 min)	Karl Wachswender - Lattice Semiconductor **Efficient Vision Pipelines on FPGAs: Design Patterns and Performance Tuning** (40 min)	Dr. Aurang Zaib - Microchip Technology **Software-to-Hardware Synergy for Edge AI: From Model Compression to Low-Power FPGA Acceleration** (40 min)	Luke Millar - AMD **Agentic AI in the FPGA Design Loop** (90 min)
	Stan Klinke - EBV Elektronik **Reimagining Edge GenAI – Generative AI with Hailo-10** (40 min)	Saadeddine Ben Jemaa - Arrow Central Europe **AI Acceleration on Microchip FPGAs – From Concept to Deployment** (40 min)	Prof. Hans Dermot Doran - Zurich University of Applied Sciences **Dataflow driven Scalable AI Accelerator Architecture for FPGA and eFPGA Platforms** (40 min)	