Summer School

“AI for Optical Networks & Neuromorphic Photonics for AI Acceleration”

6-9 September 2021, Berlin
Summer School

Monday

08:00-08:30
Opening Session

08:30-10:30
Bert Jan Offrein, IBM Research Zurich,
Photonic Signal Processing for High Performance and Efficient Neuromorphic Computing

10:30-11:00
Coffee Break

11:00-13:00
Camille Delezoide, Nokia Bell Labs France,
Low-Margin Optical Networks and Beyond

13:00-14:00
Lunch Break

14:00-15:00
Yvan Pointurier, Huawei Technologies,
The Applications of AI for Optical Communication Networks

15:00-16:00
Christian Häger, Chalmers University of Technology,
Model-Based Machine Learning for Physical-Layer Communication over Optical Fiber

Tuesday

08:30-10:30
Marija Furdek, Chalmers University of Technology,
AI/ML for Security Management in Optical Networks

10:30-11:00
Coffee Break

11:00-12:00
Luca Pesando, Telecom Italia,
AI Application in Networks and Standards: a Difficult but Needed Relationship

12:00-13:00
Äsa Ribbe and Iveth Lucia Lobato Polo, European Patent Office,
How to Patent AI/ML Inventions in Europe

13:00-14:00
Lunch Break

14:00-15:00
Faycal Ait Aoudia, Nokia Bell Labs France,
Deep End-to-End Learning of Communication Systems

15:00-16:00
Laurent Schmalen, Karlsruhe Institute of Technology (KIT),
End-to-end Modelling and Optimization of Optical Communication Systems using Deep Learning
Summer School

Program

6-9 September 2021, Berlin

Wednesday

08:30-10:30
Achim Autenrieth, ADVA Optical Networking,
SDN Control and Automation of Open and Disaggregated Optical Networks

10:30-11:00
Coffee Break

11:00-12:00
Bernhard Spinnler, Infinera,
Machine Learning Applications in Optical Networks and Systems

12:00-13:00
Oliver Holschke, Deutsche Telekom Innovation Laboratories,
Quantum Communications Research at DT

13:00-14:00
Lunch Break

14:00-16:00
Christoph Lange, Fraunhofer FIT,
International Data Spaces: Architecture and Use Cases

Thursday

08:30-10:30
Dan Kilper, Trinity College Dublin,
Performance Monitoring in Open Optical Networks and Data Collection Framework

10:30-11:00
Coffee Break

11:00-12:00
Mitsumasa Nakajima, NTT Device Technology Lab,
On-Chip Photonic Reservoir Computing

12:00-13:00
Antonio Hurtado, University of Strathclyde,
Neuromorphic Photonics using Optical Spiking Neurons

13:00-14:00
Lunch Break

14:00-16:00
Bhavin J. Shastri, Queen’s University,
Neuromorphic Photonics for AI Acceleration