

DAY 1 - SUNDAY, MARCH 13TH, 2022

Time	Speaker	Presentation
09:00 - 09:20	Prof. Juergen Schmidhuber , Dr. Tony Chan , Prof. Lawrence Carin	Opening Remarks
09:20 – 09:40	Konstantin Burlachenko	FL_PyTorch: optimization research simulator for federated learning
09:40 – 10:00	Yazeed A. Alharbi	Towards interpretable and disentangled GANs
10:00 – 10:20	Juan Camilo Perez Santamaria	Certifying the Robustness of Face Recognition Against Semantic Perturbations
10:20 – 11:00	Coffee Networking Break	
11:00 – 11:20	Eduard Gorbunov	Extragradient Method: $O(1/K)$ Last-Iterate Convergence for Monotone Variational Inequalities and Connections With Cocoercivity
11:20 – 11:40	Guohao Li	Training Graph Neural Networks with 1000 Layers
11:40 – 12:00	Deyao Zhu	Motion Forecasting with Unlikelihood Training in Continuous Space
12:00 – 13:20	Lunch Break	
13:20 – 13:40	Dmitry Kovalev	Lower bounds and optimal algorithms for smooth and strongly convex decentralized optimization over time-varying networks
13:40 – 14:00	Mengmeng Xu	Low-Fidelity Video Encoder Pre-training for Temporal Action Localization
14:00 – 14:20	Mikhail Andronov	Overview of the methods for chemical reaction prediction
14:00 – 14:40	Coffee Networking Break	
15:00 – 15:20	Grigory Malinovsky	ProxSkip: Breaking the Communication Complexity Barrier of Local Gradient Methods
15:20 – 15:40	Merey Ramazanova	Ego4D: Around the World in 3,000 Hours of Egocentric Video
15:40 – 16:00	Michael Wand	Challenges in Real-world Applications of Neural Networks
16:00 – 16:20	Coffee Networking Break	
16:20 – 17:00	Panel Discussion: Current trends in AI	
18:30 – 20:30	Gala Dinner at Al Marsa Restaurant, Yacht Club. Pick up from Kaust Inn at 18:15	

DAY 2 - MONDAY, MARCH 14TH, 2022

Time	Speaker	Presentation
09:20 – 09:40	Sebastian Stich	Keynote: Algorithms for Efficient Federated and Decentralized Learning
09:40 – 10:00	Motasem Alfarra	Network robustness from pixel perturbations to input transformations.
10:00 – 10:20	Alexander Tyurin	Permutation Compressors for Provably Faster Distributed Nonconvex Optimization
10:20 – 11:00		Coffee Networking Break
11:00 – 11:20	Anastasia Koloskova	Decentralized optimization with heterogeneous data
11:20 – 11:40	Elnur Gasanov	FLIX: A simple and communication-efficient alternative to local methods in federated learning
11:40 – 12:00	Juan Carlos Alcazar	Active Speakers in Context
12:00 – 13:20		Lunch Break
13:20 – 13:40	Mher Safaryan	FedNL: Making Newton-Type Methods Applicable to Federated Learning
13:40 – 14:00	Francesco Faccio	Parameter-based Value Functions
14:00 – 14:20	Robert Csordas	Principles of Compositionality Improve Systematic Generalization of Neural Networks
14:00 – 14:40		Coffee Networking Break
15:00 – 15:20	Imanol Schlag	Fast Weight Architectures for Language Modeling and Associative Inference
15:20 – 15:40	Kazuki Irie	Training a Weight Matrix To Train/Modify/Adapt Itself
15:40 – 16:00	Louis Kirsch	Meta learning general-purpose learning algorithms
16:00 – 16:20		Coffee Networking Break
16:20 – 17:00		Panel Discussion: Future trends in AI
19:00 – 21:30		Traditional Dinner at Thuwal village, pick up from Kaust Inn I at 18:45

DAY 3 - TUESDAY, MARCH 15TH, 2022

Time	Speaker	Presentation
09:00 – 09:40	Ryan Cotterell	Keynote: [TBD]
09:40 – 10:00	Egor Shulgin	Uncertainty principle for communication compression in distributed and federated learning and the search for an optimal compressor
10:00 – 10:20	Guocheng Qian	Make PointNet++ Faster and More Accurate
10:20 – 11:00		Coffee Networking Break
11:00 – 11:20	Rameen Abdal	Extracting Semantics, Geometry, and Appearance using GANs
11:20 – 11:40	Samuel Horvath	FjORD: Fair and Accurate Federated Learning under heterogeneous targets with Ordered Dropout
11:40 – 12:00	Sai Praneeth Karimireddy	The quest for a universal API for federated learning
12:00 – 13:20		Lunch Break
13:20 – 13:40	Huda A. Alamri	End-to-end joint training for video question-answering
13:40 – 14:00	Zhize Li	CANITA: Faster Rates for Distributed Convex Optimization with Communication Compression
14:00 – 14:20	Dylan Ashley	Iterated Supervised Learning Methods for Solving Reinforcement Learning Problems
14:00 – 14:40		Coffee Networking Break
15:00 – 15:20	Anna Fruehstueck	Improving Image Synthesis through specialized InsetGANs
15:20 – 15:40	Humam Alwassel	Self-Supervised Learning by Cross-Modal Audio-Video Clustering
15:40 – 16:00	Vincent Herrmann	Information theoretic concepts for the perception and creation of music
16:00 – 16:20		Concluding Remarks
17:30 – 19:30		Sunset Cruise Dinner at KAUST Marina, pick up Bdlg 16 at 17:15

SOCIAL AGENDA

DAY 4 - WEDNESDAY, MARCH 16TH, 2022

14:30 – 22:00 **Jeddah Al Balad Tour** and dinner at Noun restaurant, pick up from Kaust Inn I at 14:30

DAY 5 - THURSDAY, MARCH 17TH, 2022

9:00 – 15:00 **Snorkeling Trip** in the red sea, pick up from Kaust Inn I at 8:30 am

(Please remember to bring a hat and sunscreen)

18.30: 19:30 **Dinner at the Golf course restaurant**, pick up from Kaust Inn I at 18:15

DAY 6 - FRIDAY, MARCH 18TH, 2022

15:00 – 21:00 **Day out at the Desert**, traditional Bedouin setting & sunset hill hiking, pick up from Kaust Inn