Session Program

6-11 Jun 2021



Canadian Association of Physicists

Association canadienne des physiciens et physiciennes

2021 CAP Virtual Congress / Congrès virtuel de l'ACP 2021

TS-2 Quantum Machine Learning (DTP) / Apprentissage automatique quantique (DPT)

Underline Conference System

Monday 7 June

11:00-11:30 (I) Quantum Barren Plateaus and Generative Pre-Training Speaker Maria Kieferova
11:30-12:00 (I) Interpreting artificial neural networks in the context of theoretical physics. Speaker Sebastian Wetzel
12:00-12:30 Quantum Earth Mover's Distance: A New Approach to Learning Quantum Data Speaker Dr Milad Marvian
12:30-13:30 Break (Optional: Discussions)
13:30-14:00 (I) Large Scale QML Research in TensorFlow Quantum Speaker Michael Broughton
14:00-14:30(I) Training quantum computers the same way as neural networksSpeaker Nathan Killoran
14:30-14:45 Break (Optional: Discussions)
14:45-15:15 (I) Quantum enhanced sampling: an essential tool for today's quantum computing practitioner
Speaker Peter Johnson
15:15-15:45 (I) Variational Neural Annealing Speaker Juan Felipe Carrasquilla
15:45-16:00 Break (Optional: Discussions)
16:00-16:30 (I) Classical and quantum control and learning Speaker Barry Sanders

16:30-17:00

(I) Enhancing Machine Learning and Combinatorial Optimization with Quantum Generative Models

Speaker

Alejandro Perdomo-Ortiz

17:30

17:00-17:30 Optional: Discussions

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