Summer School on Artificial Intelligence 2022

School Program

Monday, December 12, 2022 (Day 1)	
08:45 – 09:00	Opening remark by Ng See Kiong
09:00 – 10:00	Focused Lecture 1 Yang Qiang: Trustworthy Federated Learning
10:00 – 10:30	Coffee break
10:30 – 11:30	Focused Lecture 2 Yu Han: Towards Trustworthy Federated Learning
11:30 – 13:00	Lunch break
13:00 – 14:00	Focused Lecture 3 Liu Zelei: Contribution-Aware Federated Learning for Smart Healthcare
14:00 – 15:00	Focused Lecture 4 Li Anran: Interpretation of federated learning
15:00 – 15:30	Coffee break
15:30 – 16:30	Focused Lecture 5 Alysa Tan Ziying: Personalized Federated Learning
16:30 – 17:30	Industry Talk by ENN Li Zengxiang: Collaborative Learning Ecosystem for Industrial Internet AI Applications

Tuesday, December 13, 2022 (Day 2)	
09:00 – 10:00	Focused Lecture 6 He Binsheng: Federated Learning Systems: Towards Effective and Efficient Machine Learning Systems on Data Silos
10:00 – 10:30	Coffee break
10:30 – 11:30	Focused Lecture 7 Yu Wenhan, Terence Chua Jie, Zhao Jun: Deep Reinforcement Learning for Extended Reality and Metaverse over Wireless Networks
11:30 – 13:00	Lunch break
13:00 – 14:00	Focused Lecture 8 Reza Shokri: Data Privacy in Machine Learning
14:00 – 15:00	Focused Lecture 9 Liu Yang: Towards Private, Efficient and Robust Cross-silo Federated Learning
15:00 – 15:30	Coffee break
15:30 – 16:30	Focused Lecture 10 Yi Yuekang: AI for Fuzzing: A Tale of Two Techniques

Wednesday, December 14, 2022 (Day 3)	
09:00 – 10:00	Focused Lecture 11 Dusit Niyato: Semantic Communication and Resource Allocation
10:00 – 10:30	Coffee break
10:30 – 11:30	Focused Lecture 13 Xie Xiaofei: Quality Assurance of Deep Learning Systems
11:30 – 13:00	Lunch break
13:00 – 14:00	Focused Lecture 12 Guo Qing: Robust VisIntel: A Road towards Robustness of Visual Intelligence
14:00 – 14.30	Bill Ong: AI Grand Challenges 2022
14:30 – 15:00	Mark Heng: Into AI Singapore FL Platform Showcase (Part 1)
15:00 – 15:30	Coffee break
15:30 – 16:30	Mark Heng: Into AI Singapore FL Platform Showcase (Part 2)
16:30 – 17:00	AI Singapore Competition 2023 Host by: Ng Wee Siong
17:00 – 17:05	Closing remark by Vivy Suhendra