Workshop: Machine Learning for 5G
(29 January 2018, Geneva, Switzerland)
Draft Programme

08:30 – 12:00 **13:30 – 17:00**	**Registration**
09:30 – 09:40	**Welcome and Opening** - Welcome remarks: ***Chaesub Lee (Director, ITU Telecommunication Standardization Bureau)*** - Opening remarks: ***Slawomir Stanczak (Fraunhofer HHI)***
09:40 – 11:20	**Session 1: Use Case and Applications** **Moderator: Slawomir Stanczak** -Machine Learning for Decentralized and/or Flying Radio Devices –***David Gesbert (Eurecom)*** -5G for Automated Driving 2.0 – ***Ahmad El Assaad (VW)*** -Use cases and requirements of network intelligence – ***Yong- Geun Hong (ETRI)*** -AI Applications in telecommunication network – ***Cheng, Qiang (AIIA (CAICT))***
11:20 – 11:40	**Coffee Break**
11:40 – 13:20	**Session 2: Challenges and Opportunities** **Moderator: Kim Mahler** -Some Thoughts on Machine Learning for Communications – ***Jakob Hoydis (Nokia)*** -Mobile AI: Challenges and Opportunities – ***Merouanne Debbah (Huawei)*** -Efficient Deep Learning in Communications – ***Wojciech Samek (Fraunhofer HHI)*** -Challenges of ML Usage for 5G Network Enhancement – ***Hamila Ridha (Qatar University)***

13:20 – 14:20	**Lunch Break**
14:20 – 16:00	**Session 3: Operations and Networks** **Moderator: Wojciech Samek** -Network Operations Intelligence – ***Seongbok Baik (KT)*** -A mobile operator perspective on Machine Learning – ***Salih Ergut (Turkcell)*** -AI promoting smart networks – ***Meng Wei (ZTE)*** -AI functionality options in 5G networks – ***Heiko Lehmann (Deutsche Telekom)***
16:00– 16:20	**Coffee Break**
16:20 – 18:00	**Session 4: Methods and Enablers** **Moderator: Seongbok Baik** -Machine Learning for 5G and Beyond: Towards Reliable and Efficient Reconstruction of Radio Maps – ***Slawomir Stanczak (Fraunhofer HHI)*** -Reinforcement learning for wireless network optimization – ***Deniz Gunduz (Imperial College London)*** -Using the information control networks (ICN) as a test area for searching for effective methods of machine learning in the networks of the future generation – ***Viliam Sarian (NIIR - Russian Federation)*** -Presentation by ***Amazon Web Services***
18:00	**Wrap-up and Closing Session**

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