

# AI enabled automation in future mobile networks

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## Abstract

AI will become one of the most important enabling technologies for future mobile networks automation. How to use the powerful analysis, judgment, and prediction capabilities provided by the AI algorithms to enable equipment, networks and service systems, and combine them with the planning, construction, maintenance, operation, and optimization of carriers' networks become an important topic for the design of future mobile networks. This talk aims at presenting the most relevant use cases, prominent research outcomes, latest standard developments and related standardization gaps, examples of AI strategy interpretation, AI solutions – including communication intelligent platform, AI model service, and deployment solution – and typical application scenarios. As a part of this framework, this speech introduces the most important aspects of AI security, in terms of protecting the integrity and confidentiality of AI models and data, and thus preventing attackers from changing the inference results or stealing data.

## Bio



David Soldani received a Master of Science (M.Sc.) degree in Engineering with full marks and magna cum laude approbatur from the University of Florence, Italy, in 1994; and a Doctor of Science (D.Sc.) degree in Technology with distinction from Helsinki University of Technology, Finland, in 2006. In 2014, 2016 and 2018 he was appointed Visiting Professor, Industry Professor, and Adjunct Professor at University of Surrey, UK, University of Technology Sydney (UTS), Australia, and University of New South Wales (UNSW), respectively. D. Soldani is currently at Huawei Technologies, serving as Chief Technology and Cyber Security Office (CTSO) in Australia, Huawei ICT Security Expert within the ASIA Pacific Region, and Chairman of the IMDA 5G task force, in Singapore. Prior to that he was Head of 5G Technology, e2e, global, at Nokia; and Head of Central Research Institute (CRI) and VP Strategic Research and Innovation in Europe, at Huawei European Research Centre (ERC).