Le Tecnologie dell’Intelligenza Artificiale e quelle del 5G: una grande prospettiva per il prossimo futuro

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5G promises / ITU IMT-2020 5G Usage scenarios

- **eMBB (Enhanced mobile Broadband)**: 
  - Peak Rates: > 10 Gbps
  - Latency: < 1 ms
  - Applications: 3D video, UHD screens, work and play in the cloud, augmented reality, industry automation, mission critical applications, self-driving cars

- **mMTC (Massive machine type communications)**: 
  - Connections: > 1 M / km²

- **URLLC (Ultra-reliable and low latency communication)**: 
  - Latency: < 1 ms

These scenarios focus on different aspects of 5G technology, including high-speed connectivity, low latency, and massive device connectivity.
AI for 5G / The 5G-MEDIA project

Programmable Edge-to-Cloud Virtualization Fabric for the 5G Media Industry

Technologies: #NFV, #MANO, #FaaS, #NFV_Catalogue, #Cloud, #Edge

Techniques: #QoS, #QoE, #QoE_Model, #MachineLearning, #ReinforcementLearning (Q-learning)
Ubiquitous, Wireless, **Edge AI**

AI functions gradually moving from central cloud to the **network edge**
- Reliable AI
- Privacy preserving AI

Source: Qualcomm - The wireless edge transformation