

# 6G Connectivity-Systems, Technologies, and Applications

### Digitalization of New Technologies, 6G and Evolution

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This book covers need for 6G connectivity arising from the pursuit of higher data speeds, ultra-low latency, massive IoT connectivity, enhanced spectral efficiency, and the facilitation of new and transformative applications. By addressing these drivers and expectations, 6G aims to revolutionize wireless communication, opening up a realm of possibilities for industries, societies, and individuals.

Technological improvements and evolutions are required beyond fifth-generation (5G) networks for wireless communications as well as in the industry where the involvement of collaborative robots (COBOT) will satisfy the personal needs of human beings as and when required leading to human-machine interactions. A considerable amount of effort has been devoted, both in industry and academia, towards the performance modelling, evaluation and prediction of convergent multi-service heterogeneous, future-generation networks such as 6G.

Technical topics discussed in the book include:

- Network security and attacks
- 6G applications and Industry 5.0
- Human centric interface
- Green computing in wireless cellular networks
- Next generation networks (IOT, Cloud Computing, Big Data, etc.).

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