

# Tentative Outline (Preliminary Proposal of Thematic Issue)

## Special/ Thematic issue for the journal Recent Advances in Computer Science and Communications

Title of the Thematic Issue: "The Promise, Perils, and Pillars of 6G Network with Advanced Wireless Communications"

**Guest Editor:** Dr. Ibraheem Shayea

**Co-Guest Editors:** Dr. Abdulraqeb Alhammadi and Dr. Zaid Ahmed Shamsan

- **Scope of the Thematic Issue:**

Telecommunications in the terahertz (THz) range are considered a dominant technology for 6G and beyond. Terahertz telecommunication can support many promising properties as foundational network connectivity. In light of the current creation and advancement of 6G wireless connections, the Issue of THz telecommunications has gained much attention from the science community and grown in importance. Numerous articles are being produced that address various facets of terahertz wireless communication systems. With this work, designers want to examine a retrospective look at the last decade, explore some of the same issues, and highlight the scientific community's progress. Meanwhile, outstanding problems and new lines of inquiry for the THz spectrum communication devices are addressed in this paper by addressing a wide range of subjects, including electronics, circuit behavior, transmission, infrastructure, practical software platforms, and presentation equipment.

**Keywords:** Telecommunications, 6G, Network, Wireless, Spectrum, Software,

### Sub-topics:

- Opportunities and limitations in mobile technology and technologies beyond 100 GHz for 6G well beyond.
- Potential prospects for 6G technology with regards to renewable energies.
- Benefits and obstacles for 6G enabled infrastructures in a cohesive system.
- A principal component for the smart factories of everything envisaged through 6G.
- A concept for sophisticated health care in the 5G and 6G connectivity eras.
- Ideas and constraints of an effective malicious insider system for 5G and 6G networks.
- Analysis of the properties and difficulties of 6G cognitive cloud applications.

### Schedule:

Complete Thematic issue submission deadline:10.07.2023

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