

## Proposal for Special Session at IEEE CASE 2022

### Goal:

- Nowadays smart healthcare with high safety, quality and efficiency receives growing attention, especially with the COVID-19 pandemic illuminating significant gaps in needs and access of healthcare services. Smart healthcare using a new generation of information technologies, such as the Internet of Things (IoT), Artificial Intelligence (AI), big data, and cloud computing, brings revolutionary changes to the traditional medical systems, making healthcare more efficient, convenient, and personalized. In the meantime, the theory of Systems Engineering and Operations Research successfully improves the efficiency and effectiveness of the care delivery system and provides new perspectives to smart healthcare operations. This special session aims at identifying crucial research progress in smart healthcare services and systems. Scientists, researchers and engineers are invited to submit their theoretical and applied research related with the topics including but not limited to:
  - Medical workflow analysis
  - Clinical rule modeling
  - Smart diagnosis and treatment
  - Chronic disease management
  - Stochastic modeling of healthcare systems
  - Big data and data mining in healthcare
  - Data-driven models for healthcare operations
  - Simulation-based healthcare systems
  - Heuristics and optimization in healthcare problems

**Session Title:** [Smart Healthcare Services and Systems]

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