

# CALL FOR BOOK CHAPTERS

Book Title: Heterogenous Computational Intelligence in Internet of Things



## Scope of the Book

We have seen a sharp increase in the development of data transfer techniques in the networking industry during the last few years. We can see that the photos are assisting clinicians in detecting Covid-19 infection in patients even in the current Covid-19 pandemic condition. With the aid of ML/AI, medical imaging, such as lung X-rays for Covid-19 infection, is crucial in the early detection of many diseases. We also learned that in the Covid-19 scenario, wired and wireless networking are improved for data transfer but have network congestion. An intriguing concept that has the ability to reduce spectrum congestion and continuously offer new network services is providing wireless network virtualization. The degree of virtualization and resource sharing varies between the paradigms. Each paradigm has both technical and non-technical issues that need to be handled before wireless virtualization becomes a common technology. For wireless network virtualization to be successful, these issues need careful design and evaluation. Future wireless network architecture must adhere to a number of Quality of Service requirements (QoS). Virtualization has been extended to wireless networks as well as conventional ones. By enabling multi-tenancy and tailored service with a wider range of carrier frequencies, it improves efficiency and utilization. In the IoT environment, wireless users are heterogeneous and the network state is dynamic, making network control problems extremely difficult to solve as dimensionality and computational complexity keep rising quickly.



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## Topics of Interest

**The Book Chapters are invited but are not limited to the following topics:**

- Wireless Networking.
- Machine Learning.
- Artificial Intelligence.
- Deep Reinforcement Learning.
- Internet of Things & Internet of Everything.
- Cloud & Fog Computing.
- Healthcare.
- Modelling & Simulation in Computational Engineering.
- Artificial Intelligence/Machine Learning in transferring Data.
- Dynamics & Control of Networking systems.
- Network Signal Processing over Healthcare devices.
- Controlling network system using DRL.
- Channel Allocation for Network Communication.
- Network Virtualization.
- Improving Virtualization over Enable Network Spectrum.
- Evaluation & Virtualization of Network.
- Deep Learning in Hybrid & Computational Systems.
- Human-Interacted Computation Systems.
- IoT/IoE, Fog Computing, Blockchain, Healthcare in Networking with DRL.
- Bio-medical solutions over IoT/IoE.

## Important Dates

Manuscript Submission Deadline Date: 1 Nov 2022  
Manuscript Acceptance Notification: 20 Nov 2022  
FirstRound Review Report: 15 Dec 2022  
Revised Chapter Submission: 10 Jan 2023  
Final Decision Notification: 25 Jan 2023

## Submission Guidelines

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