



Wireless Networks: Information Theoretic Perspectives

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Deadline for manuscript submissions:

closed (30 September 2020)

Message from the Guest Editors

Dear Colleagues,

Network information theory is a framework for studying performance limits in communications over networks; as such, it is expected to continue to play an essential role in the future development of wireless networks, including 5G and beyond. This Special Issue aims to bring together the body of recent results in network information theory, in order to bolster its value and emphasize the importance it continues to play in the development of wireless communications. Contributions in the intersection networks information theory and wireless networks are solicited, including but not limited to:

- Emerging information theoretic models for wireless communications
- Gaussian networks
- Capacity scaling laws, Massive networks, Random access
- Interference mitigation schemes, Relaying techniques
- MIMO channels, Massive MIMO
- Low latency communications
- Secure and private communications
- Low power communications
- Code design for networks
- Interactive communications and feedback
- Communication under channel uncertainty
- Mismatched network capacity
- Cloud and fog radio access networks





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Message from the Editor-in-Chief

The concept of entropy is traditionally a quantity in physics that has to do with temperature. However, it is now clear that entropy is deeply related to information theory and the process of inference. As such, entropic techniques have found broad application in the sciences.

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