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Random Matrix Approaches in Classical and Quantum Information Theory

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Deadline for manuscript submissions:
closed (30 June 2020)

Message from the Guest Editors

This Special Issue solicits recent advances in random matrix methods to classical and quantum information theory. Topics include but are not limited to applications of random matrix theory to:

- Caching and data retrieval
- Coding theory (classical and quantum)
- Communications theory (classical and quantum)
- Compressed sensing
- Concentration of measure techniques
- Deep neural networks
- Detection and estimation
- Geometry of quantum states
- Graph signal processing
- Quantum chaos and entanglement
- Random density matrices and entropies
- Spectral methods for graph clustering and classification

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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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