



## Information Theoretic Methods for Future Communication Systems

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submissions:

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### Message from the Guest Editors

It is anticipated that future communication systems will involve new technologies that will require high-speed computations using large amounts of data in order to take advantage of data-driven methods for improving services and providing reliability and other benefits. In many cases, information theory can provide a fundamental understanding of the limits on reliability, robustness, secrecy, privacy, resiliency, and latency of such systems. The aim of this Special Issue is to develop a collection of top information and coding theoretic results that provide such insights for future communication systems. Topics of interest include, but are not limited to, information and coding theory for:

- Semantic and goal-oriented communications;
- Joint communication and sensing;
- Provable security and privacy;
- Machine learning for communications;
- Distributed function computation;
- Feedback communication systems;
- Intelligent communication environments;
- THz communications;
- Identification via channels.





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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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