Cloud and Fog Radio Access Networks: Information, Communications, Inference and Learning Theoretic Views

Guest Editors:

Prof. Dr. Shlomo Shamai (Shitz)

Prof. Dr. Abdellatif Zaidi

Dr. Iñaki Estella Aguerri

Dr. Alon Kipnis

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Message from the Guest Editors

Cloud radio access networks (C-RAN) emerge as appealing architectures for next-generation wireless/cellular systems whereby the processing/decoding is migrated from the local base-stations/radio units (RUs) to one, or multiple, control/central units (CU) in the "cloud". This is the basic network feature of future cell-less wireless technology. Fog radio access networks (F-RAN) address the case where the RUs are enhanced by having the ability of local caching of popular contents. This special issue is focused on the information-theoretic and communications aspects of such networks.

This special issue of the Entropy journal is planned to focus on Information and Communications Theoretic aspects and views that are associated with the general framework of C-RAN, F-RAN, and Information Bottleneck (IB).

Special Issue

Editor-in-Chief

Prof. Dr. Kevin H. Knuth
Department of Physics, University at Albany, 1400 Washington Avenue, Albany, NY 12222, USA

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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