

Coded Computing

Call for papers

IEEE Journal on Selected Areas in Information Theory Special Issue on Coded Computing

The intersection of information theory and computing has been a fertile ground for novel, relevant intellectual problems. Recently, coding-theoretic techniques have been designed to improve performance metrics in distributed computing systems. This has generated a significant amount of research that has produced novel fundamental limits, code designs, and practical implementations. The set of ideas leveraged by this new line of research is collectively referred to as *coded computing*. This special issue will focus on coded computing, including aspects such as tradeoffs between reliability, latency, privacy, and security. Specific topics of interest include:

Topics:

Coded distributed computing
Coded edge computing
Secure and private coded computing
Hierarchical coded computing
Coded elastic computing
Compression for distributed computing
Coding for verifiable computing
Applications (e.g., machine learning, blockchain systems, etc)

Important dates:

Manuscript Due: February 15, 2021 Acceptance Notification: July 15, 2021
Final to Publisher: August 5, 2021 Expected Publication: September 2021

Submission Guidelines:

Submitted papers should be of sufficient length and detail for review by experts in the field. Prospective authors must follow the *IEEE Journal on Selected Areas in Information Theory* manuscript submission guidelines in JSAIT Author Information webpage. All papers should be submitted through <https://mc.manuscriptcentral.com/jsait-ieee>

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