Special Issue

Algorithms for Topic Modeling

Message from the Guest Editor

The idea of using non-negative matrix factorization (NMF) for topic modeling was first introduced by Lee and Seung (1999) and popularized by Blei et al. (2003) with the publication of the latent Dirichlet allocation (LDA) algorithm. NMF produces a matrix decomposition where the resulting matrices contain positive values and map topics to documents and words. LDA is a probabilistic graphical model that represents a topic as a mixture of documents and words. There are many different algorithmic approaches to topic modeling, and researchers continue to seek advances in algorithm design, implementation and evaluation. The field of topic modeling is constantly evolving, and there are opportunities for new research directions. Recently, there has been interest in using deep neural networks for topic modeling. These approaches have shown promise for improved topic coherence, but have scalability and deployment issues due to computational requirements. *Algorithms* (ISSN 1999-4893; CODEN: ALGOCH) is a leading open-access journal and seeks high-quality journal articles that explore recent advances in algorithms and deep neural approaches to topic modeling.

Guest Editor

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Message from the Editor-in-Chief

Algorithms are the core of computational mathematics and computer science. The whole area has been considered from different perspectives, which has led to the development of several sub-communities. The aim is to bring together researchers and practitioners from different areas of computational mathematics and computer science and to offer a platform for interdisciplinary applications in different areas of science and technology. In this way, *Algorithms* may become a forum for the exchange of new stimulating ideas between the different sub-communities working in the area of algorithms and their applications and the presentation of high-quality novel algorithmic approaches.

Editor-in-Chief

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