



## Learning with Big Data: Scalable Algorithms and Novel Applications

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### Message from the Guest Editors

Recent years have witnessed unprecedented growth in the scale, dimensionality and complexities of data in various areas, spurring BIG DATA research and development. Big data research has empowered the success of many applications in urban computing, social science, e-commerce, computer vision, natural language processing, speech recognition, bioinformatics, education, physics, chemistry, biology, and engineering. On the other hand, in order to enable learning with big data, scalable algorithms have attracted much attention in machine learning and data mining. Numerous computational techniques for Big Data have been proposed, including stochastic optimization, parallel and distributed optimization, randomization, and GPU computing. This Special Issue addresses the emerging topic of learning with big data, with an emphasis on novel applications and scalable algorithms. Papers may choose to mainly focus on one aspect (novel applications or scalable algorithms) but also provide sufficient background or discussion on the other.





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## Message from the Editor-in-Chief

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