

Editorial: TKDD Special Issue on Interactive Data Exploration and Analytics

Interactive data exploration and analytics (IDEA) involves research and development in data analytics that facilitates and promotes user interaction. In 2015, ACM TKDD started a special issue initiative and called for paper submissions that would lay theoretical foundations, provide new insights into the design and implementation of interactive data mining tools, and describe IDEA experiences and issues in real-world applications. The special issue aimed to present the state-of-the-art of data mining and machine learning techniques that would allow users to interactively explore their data, and receive near-instant updates to every requested refinement. The focus was on interactivity and effective integration of techniques from data mining, visualization, and human-computer interaction.

We received 59 submitted manuscripts by our submission deadline of December 4, 2015. Each submission was reviewed using the same rigorous process as that employed in TKDD's regular track, except that the Guest Editors were in charge of reviewer assignments and decision recommendations. We invited 14 of these 59 papers for first-round revisions, and 4 of them for second-round revisions. We finally accepted 9 papers that are being published in this special issue. These 9 accepted papers provide a representative coverage of the foundations, algorithms, techniques, and systems and applications in IDEA.

The special-issue Guest Editors were Matthijs van Leeuwen, Polo Chau, Jilles Vreeken, Dafna Shahaf, and Christos Faloutsos.

Xindong Wu and Charu Aggarwal
Editors-in-Chief