

## **The HDDA-IV: The Sixth International Workshop on Perspectives on High-dimensional Data Analysis**

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This workshop went very smooth and was a great success. Besides domestic participants, it had attracted many international participants from USA and Mexico. Many participants at end of the workshop had indicated their interest to take part in a future workshop of a similar type to further discuss research progress in these research areas, and we plan to do so!

The HDDA series has now become a well-established tradition and one of the most visible annual events in North America on cutting edge methodology for high dimensional data and its applications in a broad range of studies, from environmental sciences to cybersecurity to fMRI imaging. The previous annual HDDA workshops were held Toronto, ON (2011), Montreal, QC (2012), and Vancouver, BC (2013). This important workshop series was envisioned and initiated by Professor Ejaz Ahmed.

This workshop has successfully fulfilled the agenda of promoting research activities in the area of high-dimensional data analysis. It has created a rather focused venue for participants to actively discuss and exchange research ideas via presentations and post-presentation informal discussions. The list of speakers at the workshop was really impressive, and most of talks were based on unpublished and on-going work. There are a significant proportion of Canadian speakers, who had been given these opportunities to develop future collaborations among them and with researchers

Twenty five invited talks were presented by influential researchers on various aspects of High-dimensional Data Analysis and were well received by the audience. Most of presentations had followed with insightful comments and interesting discussions. Participants had active exchanges of ideas and in-depth discussion on current research activities and future research directions.

In conclusion, this workshop has achieved the following goals: (1) Presentations have highlighted new methodology development and extensions of existing methods in high-dimensional data analysis, (2) through both presentations and discussions researchers have identified important directions for future research such as algorithmic problems in protein folding, brain imaging and new problems of regularization methods, (3) researchers have made extensive discussion on collaborations and hope to meet again in the next year to exchange results once again, and (4) the workshop has provided a broad range of research problems and up-to-date information for highly qualified personnel who have benefitted in a great deal by meeting and interacting with leading researchers.

We would like to express our thanks to the superb staff and management at BIRS for the encouragement and support in the organization of this workshop. Our special thanks go to Wynne Fong, Chee Chow, Ornela Alquicira, and Linda Jarigina-Sahoo for their time, effort and support.