Message from the Workshop Co-Chairs

The 14th IEEE International Conference on Data Mining (IEEE ICDM 2014) has solicited workshops on topics related to new research directions and novel applications of data mining. The goal of the ICDM workshops program (IEEE ICDMW) is to identify grand challenges in data mining, to explore the possible paths to address these urgent problems, and to solicit broad participation from the data mining community and other relevant research communities.

IEEE ICDMW 2014 was held on December 14 in Shenzhen, China, and was immediately followed by IEEE ICDM 2014. This year, we have received 32 workshop proposals, among which 25 workshops were tentatively accepted after review; based on paper submission and registration results, 20 workshops were eventually accepted. The final ICDMW program consisted of 6 full-day workshops and 14 half-day workshops. Overall, the ICDMW received 368 submissions, among which 167 papers were accepted, with an acceptance rate of about 45%. The competitive acceptance rates have resulted in the high-quality and exciting ICDMW proceedings.

IEEE ICDMW 2014 covered many new research and application areas as well as fundamental data mining topics. The traditional and fundamental disciplines included spatial and spatio-temporal data mining, high-dimensional data mining, optimization, data integration, data privacy, concept drift, etc. Emerging disciplines included sentiment analysis, domain driven data mining, software mining, network mining, social network/media mining, data sharing, big data mining and visualization, etc. IEEE ICDMW 2014 provided discussion forums for exciting applications including data mining in healthcare, data mining in medical imaging, data mining in service applications, etc.

Many people worked together in organizing IEEE ICDMW 2014. We would like to thank all colleagues who submitted the high-quality workshop proposals. The workshop organizers are the key to the success of the ICDMW program. We should thank them all for their tremendous effort putting together 20 exciting workshops in the final program.

In addition to the regular workshop program, ICDM each year has a tradition to include a set of highly qualified demonstration papers. These demonstrations showcase working prototypes of solutions that address problems using data mining algorithms. The ICDM 2014 Demonstration Session provided researchers and practitioners an exciting and interactive forum to review working prototypes of such solutions leading to exchange of ideas and advancing the field of data mining. This year 15 out of 29 submissions were selected to the demonstrations track. The accepted demonstrations clearly showcase the increasing impact of our field in a variety of domains ranging from viral marketing and healthcare analytics to energy use monitoring. Corresponding papers describing the demonstrations have been published in the ICDM 2014 Workshop Proceedings. We thank Nikos Mamoulis, Ankur Teredesai and Hanghang Tong for organizing this event.

This is the 4th year IEEE ICDM to feature a PhD forum. The forum is meant to offer an environment for students to exchange their ideas and experiences with peers and to get constructive feedback from senior researchers in data mining and related areas. The forum is particularly aimed at PhD students in the early stages of their career and Master's students planning to pursue their research in a PhD program. The 2014 edition of the PhD forum received 22 submissions, 10 of which were accepted. The credits for organizing this year's PhD forum go to Yizhou Sun and Feida Zhu.
As Workshop Chairs, we would like to thank Local Co-Chairs Joshua Zhexue Huang and Ming Zhong, and the General Co-Chairs Jianping Fan and Jian Pei for their thoughtful local arrangement. We would like to thank the Steering Committee Chair Xindong Wu, for his advice and leadership. We would like to thank the Program Co-Chairs Ravi Kumar and Hannu Toivonen for their substantial contribution to the organization of the conference. We would like to thank the Web Chair Xiangbo Mao for his effort on the conference web presence and the Publicity Chairs Polo Chau, Yong Ge, Chedy Raissi and Jianyong Wang for helping us to distribute call for workshop proposals. Special thanks go to Juzhen Dong for his exemplary performance on the workshop conference site administration; to Yulin He for her tremendous help on the workshop paper registration; to Sheng-Jun Huang for his superb help on the workshop materials.

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ICDM 2014 Workshop Co-Chairs