Welcome to the 3rd IEEE International Congress on Big Data (BigData 2014) in Anchorage, Alaska!

As big data acquired more prominence and importance last year, IEEE BigData 2014 has emerged as a prestigious forum that facilitates researchers worldwide to exchange cutting-edge research results and set future directions for research. In this past year, we have seen the unprecedented gathering of momentum behind all aspects and applications of 'big data'. It is this momentum that has brought us together here to Anchorage, Alaska for IEEE BigData 2014, the most prestigious Big Data forum where researchers worldwide have come to exchange cutting-edge research results and to set and calibrate future research directions.

This year, the acceptance rates of IEEE BigData 2014 are 19% for the Research Track and 35% for the Application & Industry Track, with both tracks having an extensive and highly selective evaluation process to yield the list of accepted papers. Each paper was evaluated carefully by at least three reviewers. To encourage sharing of upcoming research ideas, we created the new Work In Progress (WIP) Track with topics on analysis, services, awareness, security, data mining, engineering, and testing on big data. In response to huge demand for participation from different parts of the world, IEEE BigData 2014 offers sessions in four satellite locations: May 8 in Mexico City, Mexico, May 15-16 in Coimbra, Portugal, May 28-30 in Taipei, Taiwan, and May 31-June 1 in Shenzhen, China. These satellite sessions provide a wider dissemination of Big Data research results than ever before.

The main conference of IEEE BigData 2014 is co-located with five other conferences: the International Conference on Web Services, the International Conference on Cloud Computing, the International Conference on Mobile Services, the International Conference on Services Computing, and the World Congress on Services. Collectively, these events offer many interesting keynote speeches, panels, workshops, and work-in-progress sessions, which will foster thought-provoking discussions, as well as identify new directions for future research on big data technologies and their relationship with other research disciplines. Thus, IEEE BigData 2014 offers very unique opportunities for integration and cross fertilization of related but varied fields. We are confident that the outstanding program of the IEEE BigData 2014 will push the boundary of big data technologies and analytics based on big data to advance the state-of-the-arts in providing insight into real world phenomena and to predict important events. Together with ICWS 2014, CLOUD 2014, MS 2014, SCC 2014, and SERVICES 2014, we provide a diversified program and offer a dynamic atmosphere for discussion and engagement in beautiful Alaska.

Putting together an event like this is always a team effort. We wish to express our sincere appreciation to all of the people who have contributed to IEEE BigData 2014. Our foremost thanks go to the authors of all submitted papers. We appreciate their valuable ideas and their substantial effort, as well as their willingness to submit their best work to the IEEE BigData 2014. We are also very grateful for the hard work of our program committee members and of the external reviewers who spent countless hours reviewing the papers and providing constructive comments to help improve the papers and helped us put together the final program. The high quality of the selected papers makes us confident that IEEE BigData 2014 will continue to grow, bringing forward exciting new research directions and technological innovations.

Please enjoy IEEE BigData 2014 and your stay in beautiful Alaska!

Paul Hofmann, Ming-Chien Shan and Wu Chou, General Chairs
Peter Chen and Hemant Jain, Program Chairs
Barbara Carminati, Ling Liu, Ernesto Damiani and Chi-Hung Chi, Application and Industry Track Chairs
Wei Tan, Work-in-Progress Track Chair
J. Octavio Gutierrez-Garcia and Victor M. Gonzalez, Mexico Cite Satellite Session Program Committee Chairs
Pedro Furtado and Ladjel Bellatreche, Coimbra Satellite Session Program Committee Chairs
Shih-Chia Huang and Patrick C. K. Hung, Taipei Satellite Session Program Committee Chairs
Zibin Zheng, Shenzhen Satellite Session Program Committee Chair
Patrick C. K. Hung, Vice Chair of Communications of the IEEE Technical Committee on Services Computing
Suzanne McIntosh, BigData Secretariat Contact