

About the Contributors

Xiao-Li Li is currently a principal investigator in the Data Mining Department at the Institute for Infocomm Research, A*STAR, Singapore. He also holds an appointment of adjunct assistant professor in Nanyang Technological University (NTU). His research interests include data mining, machine learning, and bioinformatics. He has been serving as the members of technical program committees in numerous data mining related conferences (including KDD, ICDM, SDM, PKDD/ECML, PAKDD, AAAI, ACML and CIKM), and bioinformatics conferences (a book editor for Biological Data Mining in Protein Interaction Networks, PC members for ACM BCB, IEEE BIBE, IEEE BIBM, InCob, BIOCOMP etc.). In 2005, he received Best Paper Award in the 16th International Conference on genome informatics (GIW 2005). In 2008, he received the Best Poster Award in the 12th Annual International Conference Research in computational molecular biology (RECOMB 2008). In 2011, he received Best Paper Runner-Up Award of the 16th International Conference on Database Systems for Advanced Applications (DASFAA 2011).

See-Kiong Ng is currently Principal Scientist and the head of the Data Mining Department at the Institute for Infocomm Research, A*STAR. The department focuses on applied research and development in machine learning, text mining, semantic technologies, privacy-preserving data mining, and bioinformatics. See-Kiong obtained both his BS and PhD in computer science from Carnegie Mellon University (CMU), with an MS from University of Pennsylvania. His primary research is in data mining and machine learning, with applications in text mining, bioinformatics, privacy-preserving data mining, and social network mining. See-Kiong has a long-standing interest in cross-disciplinary applied computer science research. He wrote the TrueAllele software when he was a graduate student at CMU. The program was subsequently used by a biotech company in Iceland to genotype the Icelandic population -- thus began his cross-disciplinary journey into the exciting field of genomics as a computer scientist. See-Kiong has since been able to apply what he had learned from bioinformatics to a wide array of application domains from social network analysis to sensor stream data mining. He has published close to 100 papers in leading peer-reviewed journals and conferences to-date. See-Kiong also holds a joint appointment as an Associate Professor of Information Systems Technology and Design at the Singapore University of Technology and Design, the latest university in Singapore.

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Pierre Baumann, Dipl. Chem., Ph.D. has been Professor emeritus, since 2007, in psychopharmacology, Dept of Psychiatry (CHUV), University of Lausanne. His research interests are metabolism, pharmacokinetics and pharmacogenetics of psychotropic drugs, phase II–IV studies, analytical methods, therapeutic drug monitoring, pharmacovigilance in psychiatry, neuropsychopharmacology, and clinical psychopharmacology. He has been published in more than 300 books and international journals.

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Yang Dai received Ph.D degree in Management Science and Engineering from University of Tsukuba, Japan, in 1991. From 1991 to 1997 she was a research associate, an assistant professor at the Department of Management Science of Kobe University of Commerce. From 1997 -2001 she was an assistant professor of Department of Mathematical and Computing Sciences, Tokyo Institute of Technology, Japan. Since 2001 she is on faculty of Department of Bioengineering, the University of Illinois at Chicago. Her recent research interests include the analysis of gene expression and pathways, inference of biological networks, and data analysis on genome-wide association study of complex diseases. Professor Dai has published more than 70 peer reviewed papers in various journals and conferences proceedings.

Anna Dominiczak is a British Heart Foundation Chair of Cardiovascular Medicine and heads the BHF Glasgow Cardiovascular Research Centre at the University of Glasgow. She is also a consultant physician and endocrinologist at the Western Infirmary and associate dean for Research at the Faculty of Medicine. She has a major research interest in cardiovascular genomics and systems medicine and holds a BHF Programme Grant. "Genomics and proteomics of hypertension and its vascular complications: the pathwayomic strategies." Her total research income in the last 3 years is in excess of £35 million. She is a Fellow of the Royal College of Physicians, the Academy of Medical Sciences, the Royal Society of Edinburgh and the American Heart Association. In addition to membership of several

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editorial boards, Professor Dominiczak was editor-in-chief of Clinical Science between 2004 and 2008. Her scientific and clinical contributions have been recognised by invitations to serve on the Medical Research Council Physiological Medicine Board, British Heart Foundation Project Grant Committee, the Wellcome Trust Physiological Science Committee and the Scientific Advisory Board of the Leducq Foundation. Professor Dominiczak is an author of 230 publications in peer-reviewed journals. In 2005 she was awarded OBE for services to medicine.

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Imtiaz A. Khan (IAK) has been active in the fields of bioinformatics and computational biology and has focused lately (over 5 yrs) on image based oncology research. IAK started his professional career in pharmaceutical sciences; and then actively converted to gaining training in bioinformatics inspired by the challenges facing biology and medicine in embracing bioinformatics science and technology. IAK gained post-graduate degrees in Bioinformatics from UK and US institutions along with associated training elements at both NCBI and EBI. IAK has introduced novel bioinformatics infrastructure (PMID: 17387278) that aims to transform images to knowledge and thus augmenting our understanding about the dynamics of cellular behaviour. He is a senior researcher within the Cardiff-Swansea Systems Cytometry Group, an interdisciplinary group bringing together biologists, engineers and mathematicians alike. Currently, as a Marie Curie Fellow he is working at the Broad Institute of Harvard and MIT,

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Martin McBride currently holds a lectureship in systems biology in the BHF Glasgow Cardiovascular Research Centre at the University of Glasgow. He completed his undergraduate and postgraduate training in Genetics at the University of Glasgow and received post-doctoral research training in various laboratories before joining Professor Dominiczak's group. His principle research interests include the identification of genetic determinants of complex disease, including hypertension and stroke, in animal models of disease and subsequent translation to human.

John McClure currently holds a lectureship in genetic statistics within the BHF Glasgow Cardiovascular Research Centre with a major interest in complex quantitative traits such as blood pressure, insulin resistance and obesity. He is working with a large group of molecular biologists with large volumes of data on human and experimental high through put genetic analysis. He facilitates statistical analyses within several large collaborative programmes funded by the Wellcome Trust and European Union producing large volume of data ready for statistical analyses.

Nicholas Myers studied Neuroscience at Columbia University, where he assisted in using brain imaging techniques to study human language comprehension. While working at the Technical University in Munich he has collaborated on using brain imaging to identify the relationship between structural and functional alterations and attentional impairments in early Alzheimer's disease using diffusion tensor imaging, resting state fMRI, and PET. He is currently a student of Neuroscience at the University of Oxford, working on brain imaging studies of attention and memory.

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Shaohua Zhang is a graduated student at The School of Computer Science and Engineering at the Northwestern Polytechnical University, Xi'an, China. He completed his Bachelor's Degree from Xinjiang University in 2008. Since 2008 he has been researching in data mining and bioinformatics.

Lizhuang Zhao is a software design engineer at Microsoft Inc. His research interests involve developing novel large-scale software using data mining techniques, with applications in clustering, and data logical-relationship analysis, and so on. He received his PhD in computer science from Rensselaer Polytechnic Institute.