Industry and Government Track

Preface

The Industry and Government Track of the IEEE ICDM conference will bring together academics and practitioners to discuss data mining challenges and opportunities that are emerging in both industry and government. Issues that will be addressed include how to intelligently leverage novel data sources (e.g., social media data, networked data, textual data), taking into account issues as privacy, big data and heterogenous datasets, and the application of novel data mining algorithms.

This year we see a strong interest on Big Data. Companies nowadays have access to ever growing databases, which can no longer be fully leveraged with traditional data mining algorithms. Both novel designs as applications in advertising and fraud detection will be discussed. Banking knows a long tradition of using data mining to predict the creditworthiness of (potential) loan applicants. The lessons for practical data mining in general will be discussed. Other government applications that will be covered are the use of data mining for official statistics and to monitor nuclear facilities.

The track has three keynote speakers, who address theory and applications of data mining in government and industry respectively. Dr. John Crombez is the Belgian state secretary for the fight against social and tax fraud and will discuss the potential and challenges for the use of data mining for fraud detection at a governmental level. Prof. Foster Provost will discuss how we can use massive consumer behaviour data for marketing applications, thereby also addressing the Big Data issue. And last but not least, Dr. James Fan will present some of the major challenges and breakthroughs of IBM’s DeepQA (Watson) Project.

Seeing that data mining has been considered as one of the top technological trends for companies, we hope that the track will further demonstrate the potential of data mining for both industry and government, and spur collaborations between academics and practitioners in this area.

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