ビジュアルコンピューティングセミナー2016-03

下記の要領で，今年度第 3 回のセミナーを開催しますのでご参集ください．

日　時：平成 27 年 11 月 25 日（金）13:00―14:30

場　所：慶應義塾大学矢上キャンパス 14 棟 218 号室（DR8）

題　目：Big Data Visual Analytics

講　師：Seokhee Hong (University of Sydney, Australia)

要　旨：Recent technological advances have led to the production of a big data and complex networks in many domains. Examples include biological networks such as phylogenetic network, gene regulatory network, metabolic pathways and protein-protein interaction networks. Other examples are social networks such as facebook network, twitter network, linked-in network, telephone call network, citation network and collaboration network.

Visualisation is an effective analysis tool for complex networks. Good visualisation reveals the hidden structure of the networks and amplifies human understanding, thus leading to new insights, new findings, new hypothesis and predictions. However, constructing good visualisation of big data is extremely challenging due to scalability and complexity.

This talk will present a framework for visual analytics of big data. Visual Analytics is the science of analytical reasoning facilitated by interactive visual interfaces. Our framework is based on the tight integration of analysis, visualisation and interaction methods. I will present a number of case studies using various networks derived from big data, in particular biological networks and social networks.

講師略歴：Professor Hong is a Future Fellow at the School of Information Technologies, University of Sydney. She was a Humboldt Fellow, and a project leader of VALACON (Visualisation and Analysis of Large and Complex Networks) project at NICTA (National ICT Australia). Her research interests include Graph Drawing, Algorithms, Information Visualisation and Visual Analytics.

In 2006, she won the CORE (Computing Research and Education Association of Australasia) Chris Wallace Award for Outstanding Research Contribution in the field of Computer Science. Prof. Hong has more than 150 publications and she has given 60 invited seminars worldwide. In particular, she has developed an open source visual analytic software GEOMI with her research team.

She serves as a Steering Committee member of IEEE PacificVis (International Symposium on Pacific Visualization) and ISAAC (International Symposium on Algorithms and Computations), and an editor of JGAA (Journal of Graph Algorithms and Applications) and IEEE Compute Graphics and Applications.

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