



Visual Analytics – Breaking the Complexity of Medical Data

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Abstract

Visual analytics and the developed supporting technology provide a comprehensive solution for analysing large and complex integrated genomic and biomedical data. This talk presents a methodology, interactive visual analysis technology and experiments for extracting knowledge from complex genetic and clinical data and then visualizing it in a meaningful and interpretable way. By synergising the domain knowledge into development and analysis processes, we have developed a comprehensive tool that supports a seamless patient-to-patient analysis, from an overview of the patient population in the similarity space to the detailed views of genes. The presentation discusses various projects that use interactive visualisation for analysing medical data.

Profile

Dr Nguyen is a senior lecturer in visual analytics whose research contributions and interests are in visual analytics and information visualisation. His focus is to find effective visualisations to support the analysis of large and complex datasets, particularly genomic and biomedical data, health data, network data and other application based data. His research expertise has been built up since his PhD study, his various experiences at Western Sydney University, University of Technology, Sydney and University of Texas at Dallas. For his academic career, he has authored and co-authored over 70 refereed publications, including edited book, book chapters, journals and conference papers relating to this research field. More information on his research is available at <http://staff.scem.uws.edu.au/~vinh/research.php>.

Staff and students at all levels are welcome to attend.

Venue and Time:

This talk will be held on Wednesday 15 June at 2 pm at the Campbelltown Campus in Building 30, Small Lecture Theatre (CA-30.G.213).

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