

Visit to The University of Wollongong

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INVESTMENTS IN EDUCATION DEVELOPMENT

Basic Information about Visit

- Institution: UoW, School of Information Systems and Technology
- Location: Wollongong, NSW, Australia
- Date: 25.2. - 26.3. 2013
- Guarantee: Peter Eklund

University of Wollongong

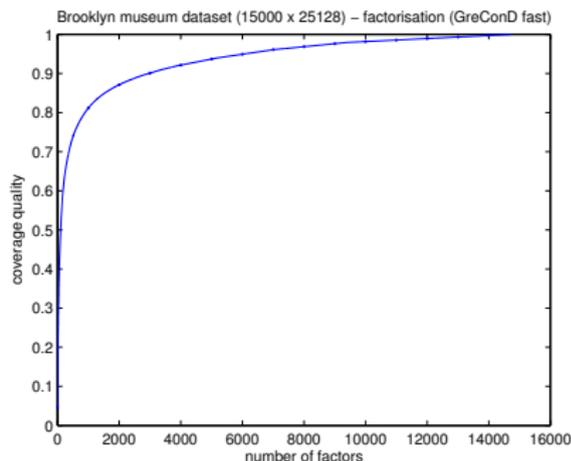
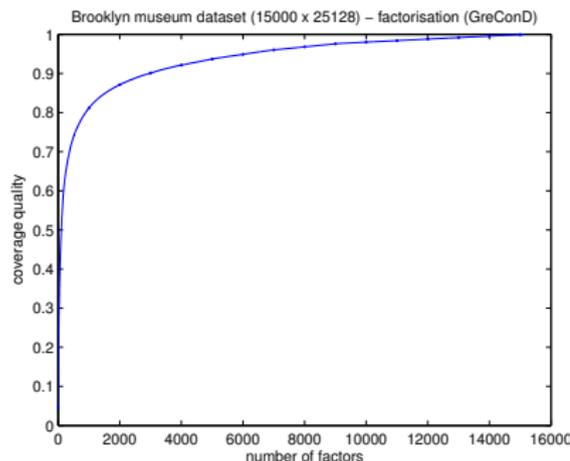
- Located approximately 80 kilometers south of Sydney
- Public institution
- Young university, established in 1951
- 30,516 students
- 11,440 international students
- Recognized as the top 2% of universities in the world
- Divided in to nine campuses

Their Work

- Analysis of large and very sparse museum datasets.
- Goal: better navigation, better feature selection.
- Attempt to use incremental FCA.

Factorization of Brooklyn Museum Dataset

- Museum datasets, in general very large, thousands of objects and attributes
- In general very sparse
- 15000×25128
- Density 0.0687%



Speedup GreConD Algorithm

- 265 635 seconds = 73.8 hours
- 11 777 seconds = 3.3 hours

Other

- Discussion with Peter Goodall from Macquarie University in Sydney about Boolean Factor Analysis.
- Application research, main area of interest in create tag for various datasets. They try find latent variables in data.
- BFA can help with reduction number of tag.
- Discussion about implementation our algorithm in CUDA and using methods from computer graphic in BFA.
- Discussion with Timothy Wray about basic level Concepts in formal concept analysis.