

Curriculum Vitae for Dr Chua, Tat-Seng

Dr. Chua, Tat-Seng, Professor

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Research: Multimedia information processing, in particular, on the extraction, retrieval and question-answering (QA) of video and text. The main focus is on the use of relations between entities and external information & knowledge sources to enhance information processing. His group participates regularly in several international public evaluations of technologies in: QA in TREC (Text Retrieval Conference), Document Summarization in DUC (Document Understanding Conference), and automatic news video retrieval in TRECVID (TREC Video), and achieves top positions in these evaluations.

Academic/Professional Qualifications:

- BSc (1979), University of Leeds, UK
- PhD (1983), University of Leeds, UK

Career History:

- Lecturer (1983–1988), National University of Singapore (NUS)
- Research Staff member (1988-1990), Institute of Systems Science (now I₂R)
- Snr Lecturer (1990–1996); Assoc. Professor (1996-2003), Professor (2003-present), NUS
- Acting Head (1996-1998), Dept of Info Systems and Computer Science, NUS
- Acting Dean (1998-2000), School of Computing, NUS

Co-Chairs of International Conferences:

- ACM SIGIR – Aug 2008 (Singapore)
- ACM Multimedia - Nov 2005 (Singapore)
- CIVR (Conference on Image & Video Retrieval) – Jul 2005 (Singapore)

Representative Publications in last two years

1. Hang Cui, Min-Yan Kan and Tat-Seng Chua. Generic Soft Pattern Models for Definitional Question Answering. ACM SIGIR'05. Brazil, Aug, 384-391.
2. Shiren Ye and Tat-Seng Chua. Learning Object Models from Semi-structured Web Documents. IEEE Trans on Knowledge & Data Engineering, 18(8), Mar 2006.
3. Renxu Sun, Chai-Huat Ong and Tat-Seng Chua. Mining Dependency Relations for Query Expansion in Passage Retrieval. ACM SIGIR '06, Washington, Aug, 382-289.
4. Ming Zhao, Yong Wei Teo, Siliang Liu, Tat-Seng Chua & Ramesh Jain. Automatic Person Annotation of Family Photo Album. Conference on Image and Video Retrieval (CIVR 2006), Tempe, Arizona, Jul 2006. 163-172.
5. Shi-Yong Neo, Min-Yan Kan & Tat-Seng Chua. Video Retrieval Using High-level Features: Exploiting Query-Matching and Confidence-based Weighting. Conference on Image and Video Retrieval (CIVR 2006), Tempe, Arizona, Jul 2006. 143-152.
6. Yelizaveta Marchenko, Tat-Seng Chua & Ramesh Jain. Semi-Supervised Annotation of Brushwork in Paintings Domain using Serial Combinations of Multiple Experts. ACM Multimedia 2006 (Santa Barbara, California Oct 2006), Arts Paper. 529-538.
7. Hang Cui, Min-Yan Kan and Tat-Seng Chua. Soft Pattern Matching Models for Definitional Question Answering. ACM Trans on Information Systems. 2006 (to appear)