

CANASAI KRUENGGKRAI

EDUCATION

Kobe University , Kobe, Japan Doctor of Engineering, Mechanical and Systems Engineering THESIS - Discriminative Models for Morphological Analysis of Unsegmented Languages	March 2010
Kasetsart University , Bangkok, Thailand Master of Science, Computer Science THESIS - A Parallel Algorithm for Text Classification	June 2002
Thammasat University , Bangkok, Thailand Bachelor of Science, Mathematics	October 1999

PROFESSIONAL EXPERIENCE

<i>Digital Media Informatics Laboratory</i> NECTEC	April 2011 – Present
<i>Thai Computational Linguistics Laboratory</i> NICT Asia Research Center	April 2010 – March 2011
<i>Language Infrastructure Group</i> NICT Japan	April 2008 – March 2010
<i>Computational Linguistics Group</i> NICT Japan	December 2006 – March 2008
<i>Thai Computational Linguistics Laboratory</i> NICT Asia Research Center	September 2003 – September 2006
<i>Intelligent Information Retrieval and Database Laboratory</i> Department of Computer Science, Kasetsart University	September 2002 – August 2003

COMPUTING SKILLS

- **Operating Systems:** Linux, UNIX, MS-Windows
- **Programming Languages:** Shell Scripts, Perl, Flex, C, MPI, JAVA, SQL, HTML, XML, PHP

PUBLICATIONS

Journal Articles

- **Joint Chinese Word Segmentation and POS Tagging Using an Error-Driven Word-Character Hybrid Model**
C. Kruengkrai, K. Uchimoto, J. Kazama, Y. Wang, K. Torisawa, and H. Isahara

IEICE Transactions on Information and Systems announces a Special Section on Natural Language, Processing and its Applications, Vol. E92–D, No.12, pages 2298–2305, 2009

- **A Two-Pass Search Algorithm for Thai Morphological Analysis**
C. Kruengkrai and H. Isahara
Advances in Natural Language Processing and Applications, Special issue of Research in Computing Science, Vol. 33, pages 81–92, 2008

International Conference Proceedings

- **An Error-Driven Word-Character Hybrid Model for Joint Chinese Word Segmentation and POS Tagging**
C. Kruengkrai, K. Uchimoto, J. Kazama, Y. Wang, K. Torisawa, and H. Isahara
Joint Conference of the 47th Annual Meeting of the Association for Computational Linguistics and the 4th International Joint Conference on Natural Language Processing of the Asian Federation of Natural Language Processing (ACL-IJCNLP), 2009
- **Language, Script, and Encoding Identification with String Kernel Classifiers**
C. Kruengkrai, V. Sornlertlamvanich, and H. Isahara
International Conference on Knowledge, Information and Creativity Support Systems (KICSS), 2006
- **A Conditional Random Field Framework for Thai Morphological Analysis**
C. Kruengkrai, V. Sornlertlamvanich, and H. Isahara
International Conference on Language Resources and Evaluation (LREC), 2006
- **Language Identification Based on String Kernels**
C. Kruengkrai, P. Srichaivattana, V. Sornlertlamvanich, and H. Isahara
International Symposium on Communications and Information Technologies (ISCIT), 2005
- **Analysis of an Iterative Algorithm for Term-Based Ontology Alignment**
S. Tongchim, C. Kruengkrai, V. Sornlertlamvanich, P. Srichaivattana, and H. Isahara
International Joint Conference on Natural Language Processing (IJCNLP), 2005
- **Mining Word Senses from Text for Corpus-Based Lexicography**
C. Kruengkrai, T. Charoenporn, V. Sornlertlamvanich, and H. Isahara
International Conference On Natural Language Processing (ICON), 2004
- **Document Clustering using Linear Partitioning Hyperplanes and Reallocation**
C. Kruengkrai, V. Sornlertlamvanich, and H. Isahara
Asia Information Retrieval Symposium (AIRS), 2004
- **Enriching a Thai Lexical Database with Selectional Preferences**
C. Kruengkrai, T. Charoenporn, V. Sornlertlamvanich, and H. Isahara
International Conference on Language Resources and Evaluation (LREC), 2004
- **Acquiring Selectional Preferences in a Thai Lexical Database**
C. Kruengkrai, T. Charoenporn, V. Sornlertlamvanich, and H. Isahara
International Joint Conference on Natural Language Processing (IJCNLP), 2004
- **Refining A Divisive Partitioning Algorithm for Unsupervised Clustering**
C. Kruengkrai, V. Sornlertlamvanich, and H. Isahara
International conference on Hybrid Intelligent Systems (HIS), 2003
- **Using One-Class SVMs for Relevant Sentence Extraction**
C. Kruengkrai and C. Jaruskulchai
International Symposium on Communications and Information Technologies (ISCIT), 2003
- **Generic Text Summarization Using Local and Global Properties of Sentences**
C. Kruengkrai and C. Jaruskulchai
IEEE/WIC International Conference on Web Intelligence (WI), 2003

- **A Parallel Learning Algorithm for Text Classification**
C. Kruengkrai and C. Jaruskulchai
ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD), 2002

International Workshop Proceedings

- **A Word and Character-Cluster Hybrid Model for Thai Word Segmentation**
C. Kruengkrai, K. Uchimoto, J. Kazama, K. Torisawa, H. Isahara, and C. Jaruskulchai
InterBEST 2009: Thai Word Segmentation Workshop, International Symposium on Natural Language Processing (SNLP), 2009
- **A Discriminative Hybrid Model for Joint Chinese Word Segmentation and POS Tagging**
C. Kruengkrai, J. Kazama, K. Uchimoto, K. Torisawa, and H. Isahara
Oriental COCODA Workshop, 2008
- **Term-Based Ontology Alignment**
V. Sornlertlamvanich, C. Kruengkrai, S. Tongchim, P. Srichaivattana, and H. Isahara
International Workshop on UNL, other Interlinguas and their Applications, 2005
- **Acquiring Semantic Information in the TCL's Computational Lexicon**
T. Charoenporn, C. Kruengkrai, V. Sornlertlamvanich, and H. Isahara
Workshop on Asia Language Resources (ALR), 2004
- **A Practical Text Summarizer by Paragraph Extraction for Thai**
C. Jaruskulchai and C. Kruengkrai
International Workshop on Information Retrieval with Asian Languages (IRAL), 2003
- **A Parallel Learning Algorithm for Text Categorization on PIRUN Beowulf Cluster**
C. Kruengkrai and C. Jaruskulchai
Workshops on Text Mining, Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD), 2002

AWARDS

- **The First Winner of 2009 Thai Word Segmentation Software Contest**
National Electronics and Computer Technology Center (NECTEC)
<http://thailang.nectec.or.th/best>
- **Master Thesis Award 2002**, The Graduate School of Kasetsart University