

Arzucan Özgür

Dept. of Computer Engineering
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RESEARCH INTERESTS

Text mining, natural language processing, and bioinformatics.

EDUCATION

University of Michigan, Ann Arbor, Michigan September 2006 – September 2010
Ph.D., Computer Science and Engineering
Advisor: Dragomir R. Radev
Thesis: “Text and Network Mining for Literature-Based Scientific Discovery in Biomedicine”

Boğaziçi University, İstanbul, Turkey September 2002 – September 2004
M.S., Computer Engineering
Advisor: Ethem Alpaydın
Thesis: “Supervised and Unsupervised Machine Learning Techniques for Text Document Categorization”

Boğaziçi University, İstanbul, Turkey September 1998 – July 2002
B.S., Computer Engineering

PROFESSIONAL EXPERIENCE

Boğaziçi University, İstanbul, Turkey September 2011 – Present
Assistant Professor, Department of Computer Engineering

İstanbul Technical University, İstanbul, Turkey October 2010 – August 2011
Instructor, Faculty of Computer and Informatics

Avaya Labs Research, Westminster, Colorado June 2008 – August 2008
Research Intern, Multimedia Technologies Research Department

University of Michigan, Ann Arbor, Michigan September 2006 – September 2010
Research Assistant,
Department of Electrical Engineering and Computer Science
National Center for Integrative Biomedical Informatics

Boğaziçi University, İstanbul, Turkey September 2002 – July 2006
Teaching Assistant, Department of Computer Engineering

HONORS AND AWARDS

- The Science Academy Young Scientist Award (BAGEP), Turkey, 2016.
- Marie Curie Career Integration Grant, 2012.

PUBLICATIONS

Patents

- George Erhart, Valentine Matula, Arzucan Ozgur, and David Skiba. System and Method for Generating Queries, United States Patent and Trademark Office (USPTO), US 8301619. Assigned to Avaya Inc., Basking Ridge, N.J. (US), October 2012.

Thesis

- Arzucan Özgür. “Text and Network Mining for Literature-Based Scientific Discovery in Biomedicine”, Ph.D. Thesis, Computer Science and Engineering, University of Michigan, Ann Arbor, MI, USA, September 2010. Thesis Advisor: Dragomir R. Radev.
- Arzucan Özgür. “Supervised and Unsupervised Machine Learning Techniques for Text Document Categorization”, M.S. Thesis, Computer Engineering, Boğaziçi University, İstanbul, Turkey, July 2004. Thesis Advisor: Ethem Alpaydın.

Refereed International Journal Papers

- [1] Ferhat Aydin, Zehra Melce Husunbeyi, and Arzucan Ozgur. “Automatic query generation using word embeddings for retrieving passages describing experimental methods”. Database, 2017: baw166, doi: 10.1093/database/baw166, 2017.
- [2] Arzucan Ozgur, Junguk Hur, and Yongqun He. “The Interaction Network Ontology-supported modeling and mining of complex interactions represented with multiple keywords in biomedical literature”. BioData Mining, 9:41, doi: 10.1186/s13040-016-0118-0, 2016.
- [3] Erinc Gokdeniz, Arzucan Ozgur, and Resit Canbeyli. “Automated Neuroanatomical Relation Extraction: A Linguistically Motivated Approach with a PVT Connectivity Graph Case Study”. Frontiers in Neuroinformatics, 110:39. doi: 10.3389/fninf.2016.00039, 2016.
- [4] Sun Kim, Rezarta Islamaj Dogan, Andrew Chatr-aryamontri, Christie S. Chang, Rose Oughtred, Jennifer M. Rust, Riza Batista-Navarro, Jacob Carter, Sophia Ananiadou, Sergio Matos, Andr Santos, David Campos, Jos Lus Oliveira, Onkar Singh, Jitendra Jonnagaddala, Hong-Jie Dai, Emily Chia-Yu Su, Yung-Chun Chang, Yu-Chen Su, Chun-Han Chu, Chien Chin Chen, Wen-Lian Hsu, Yifan Peng, Cecilia N. Arighi, Cathy H. Wu, K. Vijay-Shanker, Ferhat Aydin, Zehra Melce Hsnbeyi, Arzucan zgr, Soo-Yong Shin, Dongseop Kwon, Kara Dolinski, Mike Tyers, W. John Wilbur, Donald C. Comeau. “BioCreative V BioC track overview: collaborative biocurator assistant task for BioGRID”. Database, 2016 : baw121. doi: 10.1093/database/baw121, 2016.
- [5] Hakime Ozturk, Elif Ozkirimli, and Arzucan Ozgur. “A comparative study of SMILES-based compound similarity functions for drug-target interaction prediction”. BMC Bioinformatics, 17:128, 2016.
- [6] Ahmet Yildirim, Suzan Uskudarli, and Arzucan Ozgur. “Identifying Topics in Microblogs Using Wikipedia”. PLoS ONE, 11(3): e0151885, 2016.
- [7] Ilknur Karadeniz, Junguk Hur, Yongqun He, and Arzucan Ozgur. “Literature Mining and Ontology based Analysis of Host-Brucella Gene-Gene Interaction Network”. Frontiers in Microbiology, 6:1386, 2015.

- [8] Ilknur Karadeniz and Arzucan Ozgur. "Detection and Categorization of Bacteria Habitats using Shallow Linguistic Analysis". *BMC Bioinformatics*, 16(Suppl 10):S5, 2015.
- [9] Wallace K. B. Chan, Hongjiu Zhang, Jianyi Yang, Jeffrey R. Brender, Junguk Hur, Arzucan Ozgur, and Yang Zhang. "GLASS: a comprehensive database for experimentally-validated GPCR-ligand associations". *Bioinformatics*, Volume 31, Issue 18, Pp. 3035-3042, 2015.
- [10] Saliha Durmus, Tunahan Cakir, Arzucan Ozgur, Reinhard Guthke. "A Review on Computational Systems Biology of Pathogen-Host Interactions". *Frontiers in Microbiology*, 6, 235, 2015.
- [11] Hakime Ozturk, Elif Ozkirimli, Arzucan Ozgur. "Classification of Beta-Lactamases and Penicillin Binding Proteins Using Ligand-Centric Network Models". *PLoS ONE*, 10(2): e0117874, 2015.
- [12] Junguk Hur*, Arzucan Ozgur*, Zuoshuang Xiang, and Yongqun He. "Development and Application of an Interaction Network Ontology for Literature Mining of Vaccine-associated Gene-Gene Interactions", *Journal of Biomedical Semantics*, 6:2, 2015. (* Equal contribution)
- [13] Melike Korucuoglu, Senol Isci, Arzucan Ozgur, Hasan H. Otu. "Bayesian Pathway Analysis of Cancer Microarray Data". *PLoS ONE*, 9(7): e102803, 2014.
- [14] Saliha Durmus Tekir, Tunahan Cakir, Emre Ardic, Ali Semih Sayilirbas, Gokhan Konuk, Mithat Konuk, Hasret Sariyer, Azat Ugurlu, Ilknur Karadeniz, Arzucan Ozgur, F Erdogan Sevilgen, and Kutlu O. Ulgen. "PHISTO: Pathogen-Host Interaction Search Tool". *Bioinformatics*, Vol. 29 no. 10, pages 1357-1358, 2013.
- [15] Junguk Hur*, Arzucan Ozgur*, Zuoshuang Xiang, and Yongqun He. "Identification of fever and vaccine-associated gene interaction networks using ontology-based literature mining". *Journal of Biomedical Semantics*, 3:18, 2012. (* Equal contribution)
- [16] Y. Kano, J. Bjerne, F. Ginter, E. Buyko, U. Hahn, K. B. Cohen, K. Verspoor, C. Roeder, L. E. Hunter, H. Kilicoglu, S. Bergler, S. V. Landeghem, T. V. Parys, Y. V. de Peer, M. Miwa, S. Ananiadou, M. Neves, A. Pascual-Montano, A. Özgür, D. R. Radev, S. Riedel, R. Satre, H-W. Chun, J-D. Kim, S. Pyysalo, T. Ohta, and J. Tsujii. "U-Compare Bio-Event Meta-Service: Compatible BioNLP Event Extraction Services ", *BMC Bioinformatics*, 12:481, 2011.
- [17] Arzucan Özgür, Zuoshuang Xiang, Dragomir R. Radev, and Yongqun He. "Mining of vaccine-associated IFN-gamma gene interaction networks using the Vaccine Ontology", *Journal of Biomedical Semantics*, 2(Suppl 2):S8, 2011.
- [18] Arzucan Özgür, Zuoshuang Xiang, Dragomir R. Radev, and Yongqun He. "Literature-based discovery of IFN-gamma and vaccine-mediated gene interaction networks", *BioMed Research International*, vol. 2010, Article ID 426479, 2010.
- [19] V. Glenn Tarcea, Terry Weymouth, Alex Ade, Jing Gao, Vasudeva Mahavisno, Zach Wright, Adriane Chapman, Magesh Jayapandian, Arzucan Özgür, Yuanyuan Tian, Jim Cavalcoli, Barbara Mirel, Jignesh Patel, Dragomir Radev, Brian Athey, David States, and H.V. Jagadish. "Michigan Molecular Interactions (MiMI) R2: From Interacting Proteins to Pathways", *Nucleic Acids Research*, 37 (Database Issue), D642-D646, 2009.
- [20] Arzucan Özgür, Thuy Vu, Güneş Erkan, and Dragomir R. Radev. "Identifying gene-disease associations using centrality on a literature mined gene interaction network", *Bioinformatics*, Volume 24, Number 13, pp. i277-i285, 2008.

- [21] F. Leitner, M. Krallinger, C. Rodriguez-Penagos, J. Hakenberg, C. Plake, C-J. Kuo, C-N. Hsu, R. T-H. Tasi, H-C. Hung, W. W. Lau, C. A. Johnson, R. Satre, K. Yoshida, Y. H. Chen, S. Kim, S-Y. Shin, B-T. Zhang, W. A. Baumgartner Jr., L. Hunter, B. Haddow, M. Matthew, X. Wang, P. Ruch, F. Ehrler, A. Özgür, G. Erkan, D. R. Radev, M. Krauthammer, T. Luong, R. Hoffmann, C. Sander, and A. Valencia. “Introducing Meta-Services for Biomedical Information Extraction”, *Genome Biology*, 9(S2):S6, 2008.
- [22] Arzucan Özgür, Burak Çetin, and Haluk Bingol. “Co-occurrence Network of Reuters News”, *International Journal of Modern Physics C (IJMPC)*, Volume 19, Issue 5, pp. 689-702, 2008.
- [23] Arzucan Özgür and Taflan İ. Gündem. “Efficient Indexing Technique for XML-Based Electronic Product Catalogs”, *Electronic Commerce Research and Applications*, Volume 5, Issue 1, pp. 66-77, Elsevier Science, 2006.

Refereed International Conference and Workshop Papers

- [24] Mert Tiftikci, Hakan Sahin, Berfu Buyukoz, Alper Yayikci, Arzucan Ozgur. “Ontology-based Categorization of Bacteria and Habitat Entities using Information Retrieval Techniques”. *Proceedings of the 4th BioNLP Shared Task Workshop*, pages 56–63, Berlin, Germany, August 13, 2016. Association for Computational Linguistics.
- [25] Cagil Sonmez, Arzucan Ozgur, Erdem Yoruk. “Towards Building a Political Protest Database to Explain Changes in the Welfare State”. *Proceedings of the 10th SIGHUM Workshop on Language Technology for Cultural Heritage, Social Sciences, and Humanities (LaTeCH)*, pages 106–110, Berlin, Germany, August 11, 2016. Association for Computational Linguistics.
- [26] Arda Celebi and Arzucan Ozgur. “Segmenting Hashtags using Automatically Created Training Data”. In *Proceedings of the 10th Language Resources and Evaluation Conference (LREC 2016)*, 23-28 May, 2016.
- [27] Saziye Betul Ozates, Arzucan Ozgur, and Dragomir Radev. “Sentence Similarity based on Dependency Tree Kernels for Multi-document Summarization”. In *Proceedings of the 10th Language Resources and Evaluation Conference (LREC 2016)*, 23-28 May, 2016.
- [28] Eda Okur, Hakan Demir, and Arzucan Ozgur. “Named Entity Recognition on Twitter for Turkish using Semi-supervised Learning with Word Embeddings”. In *Proceedings of the 10th Language Resources and Evaluation Conference (LREC 2016)*, 23-28 May, 2016.
- [29] Arzucan Ozgur, Junguk Hur, and Yongqun He. “Extension of the Interaction Network Ontology for literature mining of gene-gene interaction networks from sentences with multiple interaction keywords”. *Proceedings of the International Workshop on Biomedical Data Mining, Modeling, and Semantic Integration: A Promising Approach to Solving Unmet Medical Needs (BDM2I 2015)*, *The International Semantic Web Conference (ISWC 2015)*, Bethlehem, PA, USA, October 11-15, 2015.
- [30] Ferhat Aydin, Zehra Melce Husunbeyi, and Arzucan Ozgur. “Retrieving Passages Describing Experimental Methods using Ontology and Term Relevance based Query Matching”. *Proceedings of the Fifth BioCreative Challenge Evaluation Workshop*, pp. 42-50, Sevilla, Spain, September 9-11, 2015.
- [31] Caner Dericci, Kerem Celik, Ekrem Kutbay, Yigit Aydin, Tunga Gungor, Arzucan Ozgur, Gunizi Kartal. “Question Analysis for a Closed Domain Question Answering System”. *Proceedings*

of the Conference on Intelligent Text Processing and Computational Linguistics (CICLing), LNCS 9042, pp. 468–482, Springer, 2015.

- [32] Hakan Demir and Arzucan Ozgur. “Improving Named Entity Recognition for Morphologically Rich Languages using Word Embeddings”. The 13th International Conference on Machine Learning and Applications (ICMLA’14), Detroit, Michigan, USA, December, 2014.
- [33] Cagil Sonmez and Arzucan Ozgur. “A Graph-based Approach for Contextual Text Normalization”. Proceedings of the 2014 Conference on Empirical Methods in Natural Language Processing (EMNLP), pages 313–324, Doha, Qatar, October, 2014. Association for Computational Linguistics.
- [34] Muhammed Yavuz Nuzumlali and Arzucan Ozgur. “Analyzing Stemming Approaches for Turkish Multi-Document Summarization”. Proceedings of the 2014 Conference on Empirical Methods in Natural Language Processing (EMNLP), pages 702–706, Doha, Qatar, October, 2014. Association for Computational Linguistics.
- [35] Burak Aydin and Arzucan Ozgur. “Expanding Machine Translation Training Data with an Out-of-Domain Corpus using Language Modeling based Vocabulary Saturation”. Conference of the Association for Machine Translation in the Americas (AMTA), Vancouver, Canada, October, 2014.
- [36] Arda Celebi and Arzucan Ozgur. “Self-training a Constituency Parser using N-gram Trees”. In Proceedings of the 9th Language Resources and Evaluation Conference (LREC 2014), Reykjavik, Iceland, May, 2014.
- [37] Ilknur Karadeniz and Arzucan Ozgur. “Bacteria Biotope Detection, Ontology-based Normalization, and Relation Extraction using Syntactic Rules”. In Proceedings of BioNLP Shared Task 2013 Workshop, Sofia, Bulgaria, August, 2013. Association for Computational Linguistics.
- [38] Nadin Kokciyan, Arda Celebi, Arzucan Ozgur, and Suzan Uskudarli. “BOUNCE: Sentiment Classification in Twitter using Rich Feature Sets”. In Proceedings of the International Workshop on Semantic Evaluation, SemEval13, Atlanta, Georgia, June, 2013.
- [39] Cuneyd Murad Ozsert and Arzucan Ozgur. “Word Polarity Detection using a Multilingual Approach”. Proceedings of the Conference on Intelligent Text Processing and Computational Linguistics (CICLing), Samos, Greece, LNCS 7817, pp. 7582, Springer, 2013.
- [40] Arda Celebi and Arzucan Ozgur. “N-gram Parsing for Jointly Training a Discriminative Constituency Parser”. Proceedings of the Conference on Intelligent Text Processing and Computational Linguistics (CICLing), Samos, Greece, 2013.
- [41] Vahed Qazvinian, Dragomir R. Radev, and Arzucan Özgür. “Citation Summarization Through Keyphrase Extraction”, In Proceedings of the 23rd International Conference on Computational Linguistics (COLING 2010), Beijing, China, August 23-27, 2010.
- [42] Arzucan Özgür and Dragomir R. Radev. “Detecting Speculations and their Scopes in Scientific Text”, In Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP’09), pages 1398-1407, Singapore, August 2009.
- [43] Arzucan Özgür and Dragomir R. Radev. “Supervised classification for extracting biomedical events”, In Proceedings of the BioNLP’09 Workshop Shared Task on Event Extraction at NAACL-HLT, Boulder, Colorado, USA, pages 111-114, June 2009.

- [44] Güneş Erkan, Arzucan Özgür, and Dragomir R. Radev. “Semi-supervised classification for extracting protein interaction sentences using dependency parsing”, In Proceedings of the Conference of Empirical Methods in Natural Language Processing (EMNLP '07), Prague, Czech Republic, June 28-30 2007.
- [45] Güneş Erkan, Arzucan Özgür, and Dragomir R. Radev. “Extracting interacting protein pairs and evidence sentences by using dependency parsing and machine learning techniques”, In Proceedings of the Second BioCreAtIvE Challenge Workshop - Critical Assessment of Information Extraction in Molecular Biology, Madrid, Spain, ISBN 84-933255-6-2, April 23-25 2007.
- [46] Arzucan Özgür and Tunga Güngör. “Classification of Skewed and Homogenous Document Corpora with Class-Based and Corpus-Based Keywords”, Lecture Notes in Artificial Intelligence, Vol. 4314, (Proc. of the 29th German Conference on Artificial Intelligence), pp. 91-101, Springer-Verlag, 2006.
- [47] Arzucan Özgür, Levent Özgür, and Tunga Güngör. “Text Categorization with Class-Based and Corpus-Based Keyword Selection”, Lecture Notes in Computer Science, Vol.3733, (Proc. of the 20th International Symposium on Computer and Information Sciences), pp. 607-616, Springer-Verlag, 2005.
- [48] Arzucan Özgür and Haluk Bingol. “Social Network of Co-occurrence in News Articles”, Lecture Notes in Computer Science, Vol. 3280, (Proc. of the 19th International Symposium on Computer and Information Sciences), pp. 688-697, Springer Verlag, 2004.

Refereed National Conference Papers

- [49] Caner Deric, Kerem Celik, Ekrem Kutbay, Yigit Aydin, Arzucan Ozgur, Gunizi Kartal, Tunga Gungor, Rule-Based Focus Extraction in Turkish Question Answering Systems, 2014 IEEE 22nd Signal Processing and Communications Applications Conference (SIU 2014).

FUNDED PROJECTS

- | | |
|--|-----------|
| European Commission, FP7 Marie Curie Career Integration Grant | 2012-2016 |
| Project name: Contextual Text Mining from the Biomedical Scientific Literature | |
| Principal Investigator | |
| Bogazici University Research Fund, BAP | 2015-2017 |
| Project name: Named Entity Recognition and Hashtag Segmentation in Social Media Text | |
| Principal Investigator | |
| Bogazici University Research Fund, BAP | 2012-2013 |
| Project name: Jointly Self-trained Parsers | |
| Principal Investigator | |

CONTRIBUTED SOFTWARE PROJECTS

- PHISTO (Pathogen-Host Interaction Search Tool)**
<http://www.phisto.org>
- Ignet (Integrated gene network)**
<http://ignet.hegroup.org>

MIMI (Michigan Molecular Interactions)

<http://mimi.ncibi.org>

TEACHING EXPERIENCE

Boğaziçi University, İstanbul, Turkey

Fall 2011-Present

Assistant Professor, Department of Computer Engineering

- *CMPE 150 – Introduction to Computing (C)* (Spring 2013, Fall 2013, Spring 2014, Fall 2014, Spring 2015, Fall 2015, Spring 2016, Fall 2016, Spring 2017)
- *CMPE 150 – Introduction to Computing (Java)* (Fall 2011, Spring 2012, Fall 2012)
- *CMPE 493 – Introduction to Information Retrieval* (Fall 2014, Fall 2015, Spring 2017)
- *CMPE 561 – Natural Language Processing* (Fall 2013, Spring 2016)
- *CMPE 59H – Bioinformatics* (Fall 2011, Fall 2012, Spring 2014, Spring 2015, Fall 2016)
- *CMPE 59K – Information Retrieval* (Spring 2013)

Boğaziçi University, İstanbul, Turkey

Summer 2011

Visiting Instructor, Department of Computer Engineering

- *CMPE 493 – Introduction to Information Retrieval* (Summer 2011)

İstanbul Technical University, İstanbul, Turkey

Spring 2011-Sumer 2011

Instructor, Faculty of Computer and Informatics

- *BLG 381E – Advanced Data Structures* (Summer 2011)
- *BLG 252 – Object Oriented Programming* (Spring 2011)
- *BLG 540E – Text Retrieval Systems* (Spring 2011)

PROFESSIONAL ACTIVITIES

- Program Committee Member, AAAI 2017 Main Track.
- Reviewer for the Bioinformatics Journal, 2011, 2012, 2015, 2016, 2017.
- Reviewer for the Natural Language Engineering Journal, 2016.
- Program Committee Member, ECAI 2016.
- Program Committee Member, IJCAI 2016 Main Track.
- Program Committee Member, AAAI 2016 Main Track.
- Program Committee for the System Demonstrations Program, Conference of the North American Chapter of the Association for Computational Linguistics - NAACL-HLT, 2016.
- Program Committee for the TextGraphs-10, Workshop on Graph-based Methods for Natural Language Processing - NAACL-HLT, 2016.
- Editorial Advisory Board Member, Heliyon Journal, Elsevier, 2015, 2016.
- Reviewer for the BMC Bioinformatics Journal, 2015.
- Special Issue Editor, Frontiers in Microbiology, Special Issue on Computational Systems Biology of Pathogen-Host Interactions, 2015.
- Program Committee for the System Demonstrations Program, Conference of the North American Chapter of the Association for Computational Linguistics - NAACL, 2015.
- Reviewer for the Applied Intelligence Journal, Springer, 2014, 2015.
- Reviewer for the BioMed Research International Journal, 2014.
- Program Committee for the TextGraphs-9, Workshop on Graph-based Methods for Natural Language Processing - EMNLP, 2014.
- Program Committee for SADAATL 2014, Workshop on Synchronic and Diachronic Approaches to Analyzing Technical Language - COLING, 2014.
- Program Committee for COLING 2014, The 25th International Conference on Computational Linguistics, 2014.
- Program Committee for BioTxtM 2014, The Fourth Workshop on Building and Evaluating Resources for Health and Biomedical Text Processing - LREC, 2014
- Reviewer for the Turkish Journal Of Electrical Engineering and Computer Sciences, 2014, 2016, 2017.
- Reviewer for the PLoS ONE Journal, 2013.
- Reviewer for the Journal of Bioinformatics and Computational Biology (JBCB), 2013.
- Program Committee for the TextGraphs-8, Workshop on Graph-based Methods for Natural Language Processing - EMNLP, 2013.
- Program Committee for IJCNLP 2013, The 6th International Joint Conference on Natural Language Processing, 2013.
- Program Committee for IEA-AIE 2013, The 26th International Conference on Industrial, Engineering and Other Applications of Applied Intelligent Systems, 2013.
- Local Committee, Language Resources and Evaluation (LREC), 2012.
- Program Committee for the Workshop on Language Resources and Technologies for Turkic Languages - LREC, 2012.
- Program Committee for the TextGraphs-7, Workshop on Graph-based Methods for Natural Language Processing - ACL, 2012.
- Reviewer for the BMC Systems Biology Journal, 2011.
- Reviewer for OMICS: A Journal of Integrative Biology, 2011.
- Program Committee for the System Demonstrations Program, Association for Computational Linguistics - ACL, 2010.

- Program Committee for the Workshop on “Negation and Speculation in Natural Language Processing”, 2010.
- Program Committee for the CoNLL Shared Task, 2010.
- Reviewer for the Journal of the American Society for Information Science and Technology (JASIST), 2010.
- External Reviewer for Very Large Data Bases (VLDB) Journal Track, 2010.
- Reviewer for the Conference of the MidSouth Computational Biology and Bioinformatics - proceedings published in the journal of BMC Bioinformatics, 2009.
- Reviewer for the Conference on Empirical Methods in Natural Language Processing - EMNLP, 2008.
- Reviewer for the Computational Intelligence Journal, 2008.
- Reviewer for the Computer Journal, 2008.
- Reviewer for Soft Computing and Automation Journal (AutoSoft), 2007.
- Local Organizing Committee, International Symposium on Computer and Information Sciences (ISCIS) , 2005.