

CURRICULUM VITAE



Professor – HO TU BAO

Director of John von Neumann Institute

- Born on June 16, 1952

Education

- B.Tech. in Applied Mathematics, 10.1978, Hanoi University of Technology, Vietnam
- MS (DEA) in Computer Science, 1984, University Paris 6, France
- PhD in Computer Science, 2.1987, Paris 6 University (Pierre et Marie Curie University), France
- Habilitation in Computer Science, 10.1998, University Paris 9 (Dauphine), France

Employment

Academic

- 1.1979-12.2000: Researcher, Institute of Information Technology, Vietnam Academy of Science and Technology (VAST). Associate professor (1990), Head of research group on Knowledge Engineering.
- 7.1993-3.1998: Visiting associate professor, Graduate School of Information Science, Japan Advanced Institute of Science and Technology (JAIST), Japan
- 4.1998~: Professor, Head of Machine Learning and Data Mining Lab, Graduate School of Knowledge Science, Japan Advanced Institute of Science and Technology (JAIST), Japan
- 10.2010~: Affiliated Professor, John von Neumann Institute, Vietnam National University, at Ho Chi Minh City.
- 11.2017~: Director, John von Neumann Institute, Vietnam National University, at Ho Chi Minh City.

Research Interests

- Machine Learning, Data Mining, Data Analytics
- Computational Science, Computational Medicine and Biology
- Decision Science and Knowledge-based Decision Support Systems
- Artificial Intelligence

Professional Society

- Member of the Japanese Society for Artificial Intelligence JSAI (1995~)
- Member of International Federation for Information Processing (IFIP) Working Group WG 9.4 Social Implications of Computers in Developing Countries (1992~)
- Member of IEEE (1998~)

Awards

- Scientific Research Award of National Center for Scientific Research of Vietnam: The expert system generator TESOR (co-author and group leader, May 1990).
- Best Paper Nominated Scheduling Meetings with Distributed Local Consistency Reinforcement, *16th International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems* (Ben Hassine, A., Ito, T., Ho, T.B.,) Ottawa, May 2004.
- Japanese Society for Artificial Intelligence JSAI SIG-KBS Excellent research paper award 2004, Temporal Logic in Mining Hepatitis Data (Ho, T.B., Kawasaki, S., Le, S.Q., Nguyen, C.H., Yokoi, H., Takabayashi, K.)
- Best paper awards, Discovering Relationship between Hepatitis C Virus NS5A Protein and Interferon/Ribavirin Therapy, *Fifth International Conference on Knowledge, Information and Creativity Support Systems KICSS'10*, November 25-27, 2010, Chiangmai, Thailand (Kawasaki, S., Ho, T.B., Kanda, T., Yokosuka, O., Takabayashi, K., Le, T.N.)

Research Projects

- Project Advanced Ultra-parallel Computing Systems, Japan, 11,500,000 yen (1993-1997)
- MEXT (Japan Ministry of Education, Culture, Sports, Science and Technology): Research Project on Data Mining in Medicine, Japan, 1,000,000 yen/year (1999-2003)
- JAIST Project Soft Computing and Data Mining in Studying Complex Systems, Project leader, 2,000,000 yen (2000-2001)
- JAIST Project Construction of a PC Cluster System for Development of Speed-up Data Mining Methods, 8,700,000 yen (2002-2003)
- MEXT Grand-in-Aid Project for Scientific Research on Priority Areas (B) Realization of Active Mining in the Era of Information Flood, 4,000,000 yen/year (2001-2004)
- JAIST Joint Research Project Advanced Technologies for Intelligent Systems, Project leader, 1,850,000 yen (2002-2003)

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- JAIST Joint Research Advanced Computation Techniques for Materials Science, Project leader, 2,200,000 (2003-2004)
 - MEXT COE Project Scientific Knowledge Creation by Knowledge Science, 1,500,000 yen/year (2003-2008)
 - MEXT Joint Research Project Genome Informatics, Protein-Protein Interaction, 1,000,000 yen/year, (2004-2007)
 - MEXT Project on Integrated Methods in Hepatitis Study, Project leader, 8,900,000 yen (2004-2007)
 - MEXT Project Crystal Structure Determination and Prediction by Data Mining Methods, Project leader, 3,950,000 yen (2005-2006)
 - JAIST International Project Advanced Technologies for Text and Cross-Language Processing, Project leader, 2,300,000 yen (2005-2006)
 - MEXT Project on Advanced computation methods for analyzing scientific data, Project leader, 15,800,000 yen (2007-2010)
 - JAIST International Research Project Machine learning and data mining methods for complexly structured data, Project leader, 4,000,000 yen (2007-2008)
 - JSPS bilateral Japan-Vietnam Project on Computational methods in biomedicine, Principal investigator (JAIST, Kanazawa Univ., Kyoto Univ., Chiba Univ. Hospital), 7,200,000 yen (2009-2011)
 - MEXT Project on Computational methods for study of hepatitis pathogenesis and therapy, Project leader, 18,900,000 yen (2011-2013)
 - JAIST Project Establishment of research core on data science, 10,000,000 yen (2013-2015)
 - AOARD Project Sparse modeling and Dimensionality Reduction, 80,000 UDS (2013-2014)
 - AOARD Project Dimensionality Reduction by Nonnegative Matrix Factorization, 60,000 UDS (2015-2016)
 - Fujitsu Project Collaborative Research on Machine Learning and Data Mining, 24,000 USD (10.2014-9.2015)

Lectures

- Director of Master Program on Data Science and instructor of Machine Learning at John von Neumann Institute, Vietnam National University at Ho Chi Minh City, Vietnam
- Machine Learning, Knowledge Engineering, Graduate School of Information Science, Japan Advanced Institute of Science and Technology, 1993-1997, Japan.
- Statistics (K112), Knowledge Discovery (K417), Studies on Intelligence (K216), Graduate School of Knowledge Science, JAIST (since April 1998~), Japan.
- Pattern Recognition, Hanoi University of Technology, 1980-1981, 1981-1982.
- Introduction to Expert Systems, Paris Dauphine University, France 1986.
- Information Theory and Coding, National Institute for Cartography, Hanoi, 1982
- Data Analysis, International Laboratory for Applied Informatics, Paris, 1986

- Intelligent Computing Systems, Cryptography Research Institute, Hanoi, 1987

Keynote, Invited Talks, and Seminars

- Keynote at Vietnam International Applied Mathematics Conference (VIAMC 2017), Ho Chi Minh City, 15-18 December 2017.
- Keynote at The NAFOSTED Conference on Information and Computer Science (NICS) November 24-25, 2017, Hanoi, Vietnam.
- Keynote at International Conference on Genomic Medicine, Ho Chi Minh City, 17-18 August 2017.
- Keynote at 9th Asian Conference on Intelligent Information and Database Systems (ACIID 2017), 3-5 April 2017.
- Various invited talks during 2010-2016 on Recent trends in Science and Technology: Big Data, Computational Science, Data Analytics ...
- IEEE-RIVF 2015 International Conference on Information and Communication Technologies, Data transformation in machine learning and data mining (keynote talk), Can Tho, 2015.
- IEEE-RIVF 2009 International Conference on Information and Communication Technologies, Vietnamese Language Processing: Issues and Challenges (keynote talk), Da Nang, July 13-17 2009.
- ICT-Hanoi International Forum 2009, ICT in Knowledge Economy: Challenge and Opportunity of Vietnam, Hanoi 13 October 2009.
- 4th Vietnam-Japan Student Scientific Exchange Conference, Trends in language technology and Vietnamese language and speech processing (invited talk), Kyoto, November 15-16, 2008.
- National Conference Information-Communication Technology ICT.rda-08, On the basic research, applied research and development research (invited talk), Hanoi, 8-9.8.2008.
- International Forum on Information-Communication Technology (ICT-Hanoi 2007), Some issues of ICT research and education in Vietnam (keynote talk), Hanoi 5-7 Dec. 2007.
- Vietnamese Symposium on Economics and Technology (VSET 2007), On the Scientific Research and Graduate Education in Vietnam (keynote talk), Tokyo, 13 October 2007.
- Kansai Society of Chemistry, Temporal Abstraction Methods in Mining Hepatitis Data (invited talk), Osaka, 24 June 2006.
- Inter. Symposium on Towards Creating New Industries Based on Inter-Nanoscience, Scientific data mining: Opportunities and challenges (invited talk), Awaji, Japan, December 8-9, 2006.
- International Conference on Computer Science Research, Innovation and Vision for the Future RIVF'06, Some Emerging Trends in Machine Learning and Data Mining Research (keynote talk), Ho Chi Minh city, 14-16 February 2006.
- APEC symposium on Privacy Protection in E-Commerce and E-Government, Privacy-Preserving Data Mining and E-Commerce & E-Government (invited talk), Hanoi, 20-22 February 2006.

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- APEC Symposium on Open Source and Open Course for e-Learning, Knowledge Management and E-Learning (keynote talk), Hanoi, 4-6 December 2006.
 - National Conference Information-Communication Technology ICT.rda-03, From Artificial Intelligence and Knowledge Management to Knowledge Science (invited talk), Hanoi, 3.2003
 - FAIR Conference 2003, Issues in Data Mining Research (invited talk), Hanoi 10.2003.
 - Inter. Conference on Differential Equations, Approximations and Applications, Knowledge Discovery and Data Mining Approach to Computational Biology (invited talk), 10-15 December 2001.
 - 44th Annual Conference of the Institute of Systems, Control and Information Engineers, Knowledge Discovery and Data Mining: Problems, Challenges, and Some Research Results, (invited talk), Kyoto May 1999.
 - International Symposium on Knowledge Discovery, Institute of Statistical Mathematics, Mining Unsupervised Data by Conceptual Clustering (invited talk), Tokyo 1999.
 - Inter. Symposium on Knowledge Systems Science (KSS'04), Scientific Data Mining (invited talk), Kanazawa, 11.2004.
 - Korean Advanced Institute of Science and Technology (KAIST), Hierarchical Conceptual Clustering, Taijon, 8.1994
 - Wisconsin-Milwaukee University, Conceptual Clustering, Wisconsin 11.1994.
 - Dauphine University, Versaille University, Compiegne Technical University, Interactive-Graphic Tools for Knowledge Discovery and Data Mining, Paris 5.1998
 - United Nations University, International Institute of Software Technology (IIST), Knowledge Discovery in Databases: Some Topics and Results, Macau 10.1999
 - Hanoi University of Technology (HUT), Topics in data mining (1999, 2001, 2004), Kernel methods (2006).
 - College of Technology (COLTECH), Vietnam National University, Hanoi), Topics in bioinformatics (2001, 2004, 2005, 2006).
 - Asian Institute of Technology (AIT), Mining Rare Positive Classes, Bangkok (3.2001), Kernel methods (8.2006).

Summer Schools

- Organized and lectured at Summer Scool on Statistical Machine Learning at VIASM in August 2012 (with John Lafferty from Chicago University and XuanLong Nguyen from Michigan University)
- Organized and lectured at Summer Scool on Statistical Machine Learning at VIASM in July 2015 (with XuanLong Nguyen from Michigan University)

Chair of Program Committee (PC) and General Chair of International Conferences

- IEEE International Conference on Research, Innovation & Vision for the Future (RIVF): PC Chair of RIVF 2007, RIVF 3008, RIVF 2010, RIVF 2012, General Chair of RIVF 2009, RIVF 2013, RIVF 2016.
- 10th Pacific Rim International Conference on Artificial Intelligence: PC chair PRICAI-08.
- Pacific Asia Conference on Knowledge Discovery and Data Mining (PAKDD): PC Co-Chair PAKDD 2005, PAKDD 2009, PAKDD 2014, General Chair of PAKDD 2015.
- IEEE International Conference on Data Mining (IEEE ICDM): PC Vice-Chair ICDM 2006.
- International Conference on Theories and Applications of Computer Science (ICTACS): PC co-chair ICTACS 2006.
- The International Conference on Knowledge, Information and Creativity Support Systems (KICSS): Conference co-chair of KICSS'08.
- Asian Conference on Machine Learning: PC Co-chair of ACML 2014, General Co-chair of ACML 2015.

Member of Program Committee (PC) of International Conferences

- PC member of various international conferences in 2012-2015.
- International Joint Conference on Artificial Intelligence IJCAI: Senior PC members IJCAI 2016.
- IEEE International Conference on Data Mining (ICDM): 2009, 2010, 2011, 2015.
- Conférence Internationale Francophone sur l'Extraction et la Gestion des Connaissances (ECG): 2010.
- Asian Conference on Machine Learning (ACML): 2009 (Tutorial Chair).
- Inter. Conference on Knowledge and Systems Engineering (KSE): 2009, 2010, 2011.
- ACM Conference on Information and Knowledge Management (CIKM): 2009.
- International Conference on Discovery Science (DS): 2005, 2006, 2008, 2009.
- ACM Conference on Knowledge Discovery and Data Mining (SIGKDD): 2008
- Pacific Rim International Conference on Artificial Intelligence (PRICAI): PC member of PRICAI 1990 (Nagoya), PC Chair of PRICAI 2008.
- Pacific Asia Conference on Knowledge Discovery and Data Mining (PAKDD): 2000, 2005, 2006, 2007, 2008, 2009, 2010, 2012; PC co-chair of PAKDD 2005 and 2009.
- European Conference on Machine Learning, and Principles of Knowledge Discovery and Data Mining (ECML/PKDD): PKDD 2005, 2007.
- Inter. Conference on Machine Learning (ICML): 2005, 2006.
- IEEE International conference on information and communication technology (RIVF): 2007, 2008, 2009, 2010, 2011; PC co-chair RIVF 2007, 2009.
- Association for the Advancement of Artificial Intelligence (AAAI): AI Nectar Track at the 21st AAAI 2006
- International Conf. Intelligent Information Systems (IIS): 2008.

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- International Conference on Software Methodologies, Tools and Techniques (SoMeT): 2007, 2008, 2009, 2010.
 - Inter. Conference on Statistics for Data Mining, Learning and Knowledge Extraction (IASO): 2007.
 - Europe-Japan Conference on Information Modeling and Knowledge: 1995, 1997, 1999.
 - Inter. Conference on Data Warehousing and Knowledge Discovery (DaWak): 2002, 2003, 2004, 2005.
 - International Conference on Intelligent Agent Technology (IAT): 2003
 - Atlantic Web Intelligence Conference (AWIC): 2004, 2005.
 - First International Congress of the International Federation of Systems Research (IFSR'05): Chair of Symposium on Data and Text Mining from Large Databases (Kobe).
 - International Workshop on Rule-Based Data Mining (RBDM): 2001
 - Workshop on Active Mining (AM) at IEEE ICDM: 2002, 2003, 2004.
 - Workshop on Foundations of Data Mining (FDM) at IEEE ICDM: 2002, 2003, 2004, 2005.
 - International Workshops on Rational, Robust, and Secure Negotiations in Multi-Agent Systems (RRS) at International Joint Conference on Autonomous Agents and Multi-Agent Systems (AAMAS): 2005, 2006, 2007, 2008.
 - The International Conference on Knowledge, Information and Creativity Support Systems (KICSS): 2006, 2007, 2008, 2009, 2010.
 - International Joint Conference on Knowledge Science (KSS): 2004, 2005, 2006, 2007, 2008.

Organizing Journal Special Issues

- Cheng Soon Ong, Tu Bao Ho, Wray Buntine, Bob Williamson, Masashi Sugiyama, and Geoff Webb. Special issue of selected papers from Asia Conference on Machine Learning ACML 2013. *Machine Learning*, 2015, 99(2). <http://link.springer.com/journal/10994/99/2/page/1>.
- Hang Li, Dinh Phung, Tru Cao, Tu-Bao Ho, and Zhi-Hua Zhou. Special issue of selected papers from Asia Conference on Machine Learning ACML 2014. *Machine Learning*, 2016, 103(2). <http://link.springer.com/journal/10994/103/2/page/1>.
- Ho Tu Bao, Zhi-Hua Zhou and Hiroshi Motoda. Special issue on Artificial Intelligence, *International Journal of Software and Informatics*, 2009.
- Ho Tu Bao, Zhi-Hua Zhou and Hiroshi Motoda. Special issue on Artificial Intelligence, *Journal Intelligent Data Analysis*, IOS Press, 2009.
- Masayuki Numao and Ho Tu Bao. Special issue on Active Mining, *Journal of New Generation Computing*, Ohmsha and Springer, Vol. 25, No. 3, July 2007.

- Ho Tu Bao and Nguyen Hoang Phuong. Special issue on Intelligent Technologies, Fuzzy Systems and Applications, *Journal of Advanced Computational Intelligence & Intelligent Informatics*, Fuji Technology Press Ltd., Vol. 17, No. 3, October 2003.

Members of Journal Editorial Boards

- Intelligent Data Analysis, IOS Press
<http://www.iospress.nl/journal/intelligent-data-analysis/>
- International Journal of Data Science and Analytics, Springer
<http://www.springer.com/computer/database+management+%26+information+retrieval/journal/41060>
<http://www.springer.com/computer/database+management+%26+information+retrieval/journal/41060?detailsPage=editorialBoard>
- International Journal of Knowledge and Systems Sciences
- International Journal of Intelligent Information and Database Systems (associate editor, 2008-2010)
- Journal of Computer Science and Cybernetics, Section Editor. Vietnam Academy of Science and Technology.

Scientific Committees

- Chair of the Steering Committee of Pacific-Asia Conferences on Knowledge Discovery and Data Mining PAKDD (since May 2014) <http://pakdd.togaware.com/scmembers.html>, member since 2005.
- Co-Chair (2012-2015) of the Steering Committee of Asian Conference on Machine Learning ACML (since 2009, including Australia and New Zealand).
<http://lamda.nju.edu.cn/conf/ACML.Committee.ashx?AspxAutoDetectCookieSupport=1>
- Member of the Steering Committee of Pacific Rim International Conferences on Artificial Intelligence PRICAI (since 2008). <http://www.pricai.org/about-pricai/committees.html>
- Member and Chair (2010-) of the Steering Committee of IEEE RIVF Conference on Information and Communication Technology (www.rivf.org).
- Member of Scientific Council (2010-2013, 2014-2017) of Vietnam Institute of Advanced Study in Mathematics (VIASM) <http://viasm.edu.vn/nhan-su/hoi-dong-khoa-hoc>, (Vice-Chair in 2014-2017).

Supervision of PhD students

1. Nguyen Ngoc Ky, Model and algorithms for fingerprint image recognition, (completed, co-supervisor: Prof. Hoang Kiem, 1992)

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2. Le Ba Dung, Fuzzy reasoning in expert control, (completed, co-supervisor: Prof. Pham Thuong Cat, 1997)
 3. Huynh Van Nam, An algebraic basis for fuzzy logic and computation with words (completed, co-supervisor: Prof. Nguyen Cat Ho, 1999)
 4. Nguyen Trong Dung, Scalable algorithms for learning large decision trees (completed, co-supervisor: Prof. Hiroshi Shimodaira, 9.2000)
 5. Kawasaki Saori, Knowledge discovery in medicine (completed, September 2003)
 6. Le Si Quang, Similarity measures for unstructured data (completed, September 2005)
 7. Ben Ahlem Hassine, Distributed Reinforcement of Local Consistency for General Network (completed, September 2005)
 8. Pham Tho Hoan, Support Vector Machines and Rule Induction for Knowledge Discovery in Biological Data, (completed September 2005, co-supervisor Professor K. Satou)
 9. Nguyen Duc Dung, Model Selection in Data Mining (completed, March 2006)
 10. Le Minh Hoang, Emerging Trend Detection (completed, March 2006, co-supervisor Professor Nakamori, Y.)
 11. Zhang Hui, Multi-scale temporal data mining (completed, March 2006)
 12. Nguyen The Loc, Autonomous programming (completed, October 2006, co-supervisor Professor T. Katayama)
 13. Nguyen Thanh Phuong, Study on Protein-Protein Interactions and Related Problems (completed, September 2008).
 14. Nguyen Canh Hao, Kernel design, evaluation and learning for kernel methods (completed, March 2009)
 15. Tran Dang Hung, Computational methods for discovering microRNA functions in human genome (Completed, September 2009, co-supervisor Professor Kenji Satou)
 16. Luong The Dung, Privacy-preserving data mining (completed, June 2011)
 17. Ho Bich Hai, Epigenetic study of nucleosome dynamics mechanisms by computational approach (Completed, 6.2012)
 18. Le Ngoc Tu, Computational elucidation of epigenetic gene regulation (completed, 3.2013)
 19. Le Thi Nhan, Discriminative motif learning for hepatitis C virus study (completed, 9.2013)
 20. Than Quang Khoat, Fast and sparse inference for topic models (completed, 9.2013)
 21. Dao Chi Thanh, Study on simulation for solutions in strategical officer training (completed 4.2014)
 22. Rania Kotb, Bioinformatics (gave up after 2 years)
 23. Takehiko Sakamoto, Contributions to research of topic detection in scientific digital libraries (gave up after 3 years)
 24. Pham Ngoc Khanh, Prediction of adverse drug reactions (gave up after 2 years)
 25. Nguyen Quynh Diep, Multivariate mutual information and its application in biological network reconstruction (completed 1.2015)

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26. Bui Ngoc Thang, Short Interference RNA (3.2015)
 27. Nguyen Duy Khuong, Nonnegative matrix factorization (3.2016)
 28. Ryouzuke Matsuo, Computable forms of electronic medical records (completed 6.2017)
 29. Siriwon Taewijit, Prediction of adverse drug reactions (changed to other lab after 2 years)
 30. Nuttapong Sanglerdsinlapachai, Feature-based sentiment analysis (in progress)
 31. Gandhimathi Moharasan, Temporal information from electronic medical records (in progress)
 32. Hoang Khanh Hung, Medical Topic Models (in progress).
 33. Dang Tran Thai, Prediction of Adverse Drug Reactions (in progress)
 34. Vu Duy Hien, Privacy-Preserving Data Mining (in progress)
 35. Nguyen Duong Hung, Mining clinical and para-clinical data (in progress)

Supervision of Master students

1. Fukasawa Hiroyasu, Study of the keyword extraction algorithm KFO and its applicability to Web mining, 2000
2. Yamaguchi Kazuhiro, A study on the integration of data visualization and decision tree learning, 2000
3. Nishida Kenichirou, Bagging techniques to improve the performance of classification systems, 2000
4. Osanai Hisashi, Clustering techniques to investigate acidic and oxidative components in East Asia, 2000.
5. Itoh Hiraguki, Study of policy mechanism for reducing global-warming exhaust gas and finding its important factors, 2000.
6. Fujikawa Yoshikaza, Efficient algorithms for dealing with missing values in knowledge discovery, 2001.
7. Saitou Akinori, Applied research on knowledge discovery in the stomach cancer data, 2001.
8. Kawasaki Saori, A new algorithm hierarchical clustering for documents based on tolerance rough set model, 2000.
9. Numata Kimihiro Application of the wavelet transformation to similarity search in time series data, 2002.
10. Nakada Toyoshisa, A Hyperlink-Induced Method for Extracting Web Communities of Personal Interests, 2002.
11. Suzuki Toshiyuki Reducing the redundancy in association rule mining by frequent closed itemsets, 2002.
12. Nguyen Duc Dung, Using Prior Knowledge in Rule Induction, 2003
13. Takeru Murase, Study of quantum computing and evaluation of Shor algorithm, 2003
14. Nakamoto Osamu, Judgment assistance of search engine results by using Batch-Learning Self-organizing Map algorithm, 2003

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15. Kosaka Shuji, Investigation of a method of Fuzzy Support Vector Machine, 2004
 16. Itoh Hironori, Development of a learning algorithm combining decision trees and neural networks, 2004
 17. Mushiake Maki, Risk Discovery for New Sciences and Technologies by using Chance Discovery Techniques, 2005
 18. Nagai Kentarou, Mining Semantically Rich Association Rules from Textual Data using Background Knowledge, 2005
 19. Miyashita Kazuya, A Study on Protein-Protein Interaction using Inductive Logic Programming, 2005
 20. Kishida Kazuki, Agent Based Modeling of Innovation Dilemma, 2006
 21. Oota Takato, Mining Medical Literature in Hepatitis Study, 2006
 22. Nguyen Canh Hao, Learning from Categorical and Numerical Imbalanced Data, 2006
 23. Itou Masahiko, Research of Relativity and Universality of Word Meaning by Multi-Agent Simulation using Corpus, 2006
 24. Nguyen Thai Binh, Matching Complex Documents Application to The CISCO Network Error Database, 2008
 25. Akihiro Masuda, Study on Prdictability of Stock Returns from PER and PBR by Machine Learning, 2008
 26. Kazuyoshi Sugiyama, For Solving Diffusion Equation Using Wavelet Transformation, 2008
 27. Hiroaki Tanabe, Predicting Protein-Protein Interactions Using Multiple Kernel, 2008
 28. Pham Ngoc Khanh, An Approach to Search for Parallel Texts Scattering Across Websites, 2009
 29. Le Ngoc Tu, A computational approach to characterizing nucleosome dynamics, 2010
 30. Miura Shoji, Design Kernel Functions for F-term-based Classification of Patents, 2011
 31. Tetsuya Fujita, Identification of Social Event Influence by Twitter Mining, 2012
 32. Uno Mitsuhiro, Classification of images based on metadata of social networks, 2012
 33. Okada Hiroaki, A Study on Term Normalization of Electronic Medical Records, 2015
 34. Nguyen Vu Linh, Study on Tensor Calculus and CP-decomposition, 2015
 35. Nakayama Yuki, Synonym Extraction and Abbreviation Expansion Using Word Vector Composition, 2016
 36. Hoang Khanh Hung, Representation & Exploitation of Electronic Medical Records Using Topic Modeling, 2016.
 37. Dang Tran Thai, Prediction of adverse drug reactions (9.2016)
 38. Ouankhamchan Phetnidda, Drug repositioning from EMR (in progress).
 39. Hiroyuki Sakai, Analysis of social networks with deep learning (in progress).
 40. Yuhei Ogura, Running Route Recommendation Based on Reinforcement Learning (in progress).

Publications

Journal Articles

- Ho, T.B., Le, L., Dang, T.T., Taewijit, S., Data-driven Approach to Detect and Predict Adverse Drug Reactions, *Current Pharmaceutical Design Journal*, Vol. 22, N. 23, 3498-3526, 2016.
- Matsuo, R., Ho, T.B. (2016). Semantic Term Weighting for Clinical Texts, submitted.
- Nguyen, D.K., Ho, T.B., Anti-lopsided Algorithm for Large-scale Nonnegative Least Square Problems, *International Journal of Data Science and Analytics*, Springer. DOI 10.1007/s41060-016-0037-7.
- Nguyen, D.K., Ho, T.B., Accelerated Parallel and Distributed Algorithm using Limited Internal Memory for Nonnegative Matrix Factorization, *Journal of Global Optimization*, June 2017, Volume 68, Issue 2, pp 307–328.
- Nguyen, D.K., Ho, T.B., Fast Parallel Randomized Algorithm for Nonnegative Matrix Factorization with KL Divergence for Large Sparse Datasets, *International Journal of Machine Learning and Computing*, Vol 6(2), 111-116, 2016.
- Bui, N.T., Ho, T.B., Kanda, T., A semi-supervised tensor regression model for siRNA efficacy prediction, *BMC Bioinformatics*, 16:80, 2015.
- Nguyen, P.T., Le, A.C., Ho, T.B., Nguyen, V.H., Vietnamese Treebank Construction with Entropy-based Error Detection, *Language Resource Evaluation*, 49(3), 487-519, 2015.
- Nguyen, D.K., Ho, T.B., Accelerated Parallel and Distributed Algorithm Using Limited Internal Memory for Nonnegative Matrix Factorization, <http://arxiv.org/abs/1506.08938>, 2015.
- Nguyen, Q.D., Pham, T.H., Ho, T.B., Multivariate mutual information measures, *Journal of Computer Science and Cybernetics*, Vol. 30, No. 2, 117-126, 2015.
- Nguyen, H., Le, L., Ho, T.B., Computational study on ice growth inhibition of Antarctic bacterium antifreeze protein using coarse grained simulation, *The Journal of Chemical Physics*, June 2014, 140(22): 225101, 2014.
- Ho, V.T., Nakamori, Y., Ho, T.B., Lim, C.P., Blended Learning Model on Hands-on Approach for In-service Secondary School Teachers: Combination of E-learning and face-to-face Discussion, *Journal of Education and Information Technologies*, Springer, February 2014 (DOI 10.1007/s10639-014-9315-y), 2014.
- Dam, H.C., Pham, T.L., Ho, T.B., Nguyen, T.A., Nguyen, V.C., Data mining for materials

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- design: A computational study of single molecule magnet, *The Journal of Chemical Physics* Vol. 40, Issue 4, 2014.
- Than, K., Ho, T.B., Nguyen, D.K., An effective framework for supervised dimension reduction the diversity and log-normal of data, *Neurocomputing*, Elsevier, Vol. 139, 397-407, 2014.
 - Le, N., Ho, T.B., Kanda, T., Kawasaki, S., Takabayashi, K., Wu, S., Yokosaka, O., A Semi-Supervised Learning Method for Discriminative Motif Finding and Its Application, *Journal of Universal Computer Science*, Vol. 19. No. 4, 563-580, 2013.
 - Than, K., Ho, T.B., Modeling the diversity and log-normal of data, *Intelligent Data Analysis*, Volume 18(6), 1067-1088, 2014.
 - Hoang, C., Le, A.C., Pham, B.S., Ho, T.B., An Efficient Framework for Exploiting Parallel Sentences from Non-Parallel Corpora, *Fundamenta Informaticae*, Vol 130, 179-199, 2013.
 - Le, N.T, Ho, T.B., Ho, B.H., Computational reconstruction of transcriptional relationships from ChIP-Chip data, *IEEE/ACM Trans. Comput. Biology Bioinform.* 10(2): 300-307, 2013.
 - Luong, T.D., Ho, T.B., Tran, D.H., Enhancing privacy for frequent itemset mining in vertically distributed data, *Journal of Information Technologies and Communications*, Vol. E-2, No.5(9), 25-38, 2012
 - Ho, B.H., Le, N.T., Ho, T.B., Quantitatively assessing the effect of regulatory factors on nucleosome dynamics, *Journal of Ambient Intelligence and Humanized Computing*, Springer, Vol. 3, Issue 4, 265-280, 2012.
 - Nguyen, T.P., Ho, T.B., Detecting Disease Genes Based on Semi-Supervised Learning and Protein-Protein Interaction Networks, *Artificial Intelligence in Medicine*, Vol. 54, 63-71, 2011.
 - Luong, T.D., Ho, T.B., Privacy Preserving Frequency Mining in 2-Part Fully Distributed Setting, *IEICE Trans. Information Systems*, 2012.
 - Tran, D.H., Ho, T.B., Pham, T.H., Satou, K., microRNA expression profiles for classification and analysis of tumor samples, *IEICE Trans. Information Systems*, E94.D(3), 416-422, 2011.
 - Luong, T.D., Ho, T.B., Enhancing Privacy in Distributed Data Clustering, *Journal of Computer Science and Cybernetics*, Vol. 26, No. 2, 1-15, 2010.
 - Le, N.T., Ho, T.B., Tran, D.H., Characterizing nucleosome dynamics from genomic and epigenetic information using rule induction learning, *BMC Genomics*, 10(Suppl.3): S27, 2009.
 - Tran, D.H., Satou, K., Ho, T.B., Pham, T.H., Discovery of miR-TF Regulatory Modules in Human Genome, *Bioinformatics*, 4(8), 371-377, 2009.
 - Zhang, W., Yoshida, T., Tang, X., Ho, T.B., Improving effectiveness of mutual information for substantial multiword expression extraction, *Expert Systems with Applications*, Elsevier, Vol. 36. No. 8, 10919-10930, 2009.

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- Zhang, W., Yoshida, T., Ho, T.B., Tang, X., Augmented Mutual Information for Multi-word Extraction, *International Journal of Innovative Computing, Information and Control (IJICIC)*, Vol. 5, No. 2, 543-554, 2009.
 - Nguyen, C.H., Ho, T.B., An Efficient Kernel Matrix Evaluation Measure, *Pattern Recognition*, Elsevier, 41 (12), 1-7, 2008.
 - Tran, D.H., Pham, T.H., Satou, K., Ho, T.B., Prediction of human microRNA hairpin using only positive sample learning, *Journal of Biomedical Science and Engineering (JBiSE)*, Vol. 1, No. 2, 67-72, Scientific Research Publishing, 2008.
 - Tran, D.H., Satou, K., Ho, T.B., Finding microRNA regulatory modules in human genome using rule induction, *BMC Bioinformatics*.
 - Nguyen, T.P., Ho, T.B., An Integrative Domain-Based Approach to Predicting Protein-Protein Interactions, *Journal of Bioinformatics and Computational Biology*, Imperial College Press, Vol. 6. No. 6, 1115-1132, 2008.
 - Ho, T.B., Kawasaki, S., Takabayashi, K., Nguyen, C.H., Integration of learning methods, medical literature and expert inspection in medical data mining, *IEICE Trans. Information and Systems*, Vol. E90-D, No. 10, 1574-1581, 2007.
 - Huynh, V.N., Nakamori, Y., M. Ryoike, Ho, T.B., Decision making under uncertainty with fuzzy targets, *Fuzzy Optimization and Decision Making*, Kluwer Academic Publishers, Volume 6, Issue 3, 255-278, 2007.
 - Ho, T.B., Nguyen, C.H., Kawasaki, S., Le, S.Q., Takabayashi, K., Exploiting Temporal Relations in Mining Hepatitis Data, *Journal of New Generation Computing*, Ohmsha, Ltd. and Springer-Verlag, Vol. 25. No. 3, 247-262, 2007.
 - Ben Hassine, A., Ho, T.B., An Agent-Based Approach to Solve Dynamic Meeting Scheduling Problems with Preference, *International Journal of Engineering Applications of Artificial Intelligence*, Elsevier Publishers, Volume 20, Issue 6, 857-873, 2007.
 - Pham, T.H., Ho, T.B., A hyper-heuristic for descriptive rule induction, *International Journal of Data Warehousing and Mining*, IGI Publishing, Vol. 3, No. 1, 54-66, 2007.
 - Phan, X.H., Nguyen, L.M., Ho, T.B., Horiguchi, S., Improving Discriminative Sequential Learning by Discovering Important Associations of Statistics, *ACM Transactions on Asian Language and Information Processing*, Vol. 5, No. 4, 413-438, 2007.
 - Huynh, V.N., Nakamori, Y., Ho, T.B., Murai, T., Multiple Attribute Decision Making Under Uncertainty: The Evidential Reasoning Approach Revisited, *IEEE Trans. on Systems, Man, and Cybernetics, part A*, Vol. 6, No. 4, 804-822, 2006.
 - Nguyen, D.D., Ho, T.B., A Bottom-up Method for Simplifying Support Vector Solutions, *IEEE Transactions on Neural Networks*, Vol.17, No. 3, 792-796, 2006.

-
- Dam, H.C., Nguyen, T.C., Nguyen, A.T., Kim, Y.T., Ho, T.B., Mitani, T., Ozaki, T., and Nagao, H., Electronic Structures of Ptn Clusters Adsorbed on (5, 5) Single Wall Carbon Nanotube, *Chemical Physics Letters*, Elsevier, Vol. 432, Issues 1-3, 213-217, 2006.
 - Zhang, H., Ho, T.B., Kawasaki, S., Wrapper feature extraction for time series classification using singular value decomposition, *International Journal of Knowledge and Systems Science*, Vol. 3, No. 1, 53-60, 2006.
 - Zhang, H., Ho, T.B., Zhang, Y., Lin, M.S., Unsupervised Feature Extraction for Time Series Clustering Using Orthogonal Wavelet Transform, *Journal Informatica*, Vol. 30, No. 3, 305-319, 2006.
 - Pham, T.H., Clemente, J., Satou, K., Ho, T.B., Computational Discovery of Transcriptional Regulatory Rules, *Bioinformatics*, Oxford University Press, Vol. 21, Supp. 2, 101-107, 2005.
 - Le, S.Q., Ho, T.B., An Association-based Dissimilarity Measure for Categorical Data, *Pattern Recognition Letters*, 26(6): 2549-2557, 2005.
 - Ben Hassine, A., Ho, T.B., Ito, T., Meetings Scheduling Solver Enhancement with Local Consistency Reinforcement, *Applied Intelligence*, Springer, Vol. 24, No. 2, 143-154, 2005.
 - Zhang, H., Ho, T.B., Lin, M.S., Huang, W., Combining the Global and Partial Information for Distance-Based Time Series Classification and Clustering, *Journal of Advanced Computational Intelligence & Intelligent Informatics*, Fuji Technology Press Ltd., Vol. 10, No. 1, 69-76, 2005.
 - Phan, X.H., Horiguchi, S., Ho, T.B., Conditional Models for Automatic Data Integration from the Web, *International Journal on Business Intelligence and Data Mining*, Vol. 1, No. 2, 194-209, 2005.
 - Le, M.H., Ho, T.B., Y. Nakamori, Detecting Emerging Trends from Scientific Corpora, *International Journal of Knowledge and Systems Science*, Vol. 2, No. 2, 53-59, 2005.
 - Motoda, H., Ho, T.B., Washio, T., Yada, K., Yoshida, T., Ohara, K, Active Mining for Structured Data, *Journal of Japanese Society for Artificial Intelligence*, Vol. 19, No. 2, 172-179, 2005.
 - Pham, T.H., Satou, K., Ho, T.B., Support vector machines for prediction and analysis of beta and gamma turns in proteins, *Journal of Bioinformatics and Computational Biology JBCB*, World Scientific Publishing, Vol. 3, No. 2, 343-358, 2005.
 - Nguyen, L.M., A. Shimazu, S. Horiguchi, Ho, T.B., Example-Based Sentence Reduction Using Hidden Markov Model, *ACM Transactions on Asian Language Information Processing*, Vol. 3, Issue 3, 146-158, 2004.
 - Huynh, V.N, Nakamori, Y., Ho, T.B., and Resconi, G., A Context Model for Constructing Membership Functions of Fuzzy Concepts Based on Modal Logic, *Journal of Information Sciences*, Vol. 157, Issue 1-4, Elsevier, 111-129, 2004.

-
- Ho, T.B., Nguyen, T.D., Shimodaira, H., and Kimura, M., A Knowledge Discovery System with Support for Model Selection and Visualization, *Applied Intelligence*, Kluwer Academic Publishers, Vol. 19, Issue 1-2, 125-141, 2003.
 - Kawasaki, S., Nguyen, T.D., and Ho, T.B., Temporal Abstraction for Long-Term Changed Tests in the Hepatitis Domain, *Journal of Advanced Computational Intelligence & Intelligent Informatics*, Vol. 17, No. 3, Fuji Technology Press, 348-354, 2003.
 - Ho T.B. and Nguyen D.D., Learning Minority Classes and Chance Discovery, *Journal New Generation Computing*, Ohmsha, Ltd. and Springer-Verlag, Vol. 21, No. 2, 149-161, 2003.
 - Huynh, V.N., Ho T.B., and Nakamori, Y., A Parametric Representation of Linguistic Hedges in Zadeh's Fuzzy Logic, *International Journal of Approximate Reasoning*, Elsevier, Vol. 30, No. 3, 203-223, 2003.
 - Ho, T.B., and Nguyen, N.B., Document Clustering by Tolerance Rough Set Model, *International Journal of Intelligent Systems*, John Wiley & Sons, Vol. 17, No. 2, 199-212, 2002.
 - Ho, T.B., Kawasaki, S., and Nguyen, N.B., Cluster-based Information Retrieval with a Tolerance Rough Set Model, *International Journal of Fuzzy Logic and Intelligent Systems*, Vol. 2, No. 1, 26-32, 2002.
 - Ho, T.B., Nguyen, T.D., Nguyen, D.D., and Kawasaki, S., Visualization Support for User-Centered Model Selection in Knowledge Discovery and Data Mining, *International Journal of Artificial Intelligence Tools*, Vol. 10, No. 4, 691-713, 2001.
 - Nguyen, D.T. and Ho, T.B., An Interactive-Graphic System for Decision Tree Induction, *Journal of Japanese Society for Artificial Intelligence*, Vol. 14, N.1, 131-138, 1999.
 - Ho, T.B. and Funakoshi, K., Information Retrieval Using Rough Sets, *Journal of Japanese Society for Artificial Intelligence*, Vol. 13, N. 3, 424-433, 1998.
 - Ho, T.B., Discovering and Using Knowledge from Unsupervised Data, *Journal Decision Support Systems*, Elsevier, Vol. 21, No. 1, 27-41, 1997.
 - Ho, T.B., An Approach to Concept Formation Based on Formal Concept Analysis, *Journal IEICE Trans. Information and Systems*, Vol. E78-D, No. 5, 553-559, 1995.
 - Ho, T.B., Pham, N.K., Doan, N.L., Do, V.N., A Generator of Expert Systems Based on Object-Rule Knowledge Representation, *International Journal of Computer Applications in Technology*, Vol.2, N.4., INCCA, 241-246, 1989.
 - Ho, T.B., Diday, E., Gettler-Summa, M., Generating Rules for Expert Systems from Observations, *Journal Pattern Recognition Letters*, Vol.7, N.5, 265-271, 1988.
 - Ho, T.B., On the Design and Implementation of an Expert System Using the Inference Engine COTO, *Journal Computers and Artificial Intelligence*, Vol.6, N.4, 297-310, 1987.
 - Ho, T.B., On an Inference Engine for Expert Systems, *Tanulmanuyk*, Budapest, N.194, 19-34, 1986 (Cambridge Scientific Abstracts, Vol.36 (1988), N.2).

-
- Ho, T.B., Vietnamese Language Processing: Issues and Challenges, *Special Issue in Journal of Science, Natural Sciences and Technology*, Vol. 24, N3S, Vietnam National University- Hanoi Publishers, 10-16, 2008.
 - Ho, T.B., Pham, N.K., Ha, T.L., Nguyen, P.T., Issues and First Phase Development of the English-Vietnamese Translation System EVSMT1.0, *Special Issue in Journal of Science, Natural Sciences and Technology*, Vol. 24, N3S, Vietnam National University- Hanoi Publishers, 59-66, 2008.
 - Ho, T.B., An Overview of Artificial Intelligence and Expert Systems (in Vietnamese), *Journal of Computer Science and Control*, Vol.5, N.1, 5-10, 1989.
 - Ho, T.B., Pham, N.K., Doan, N.L., Do, V.N., OREST—a Hybrid Expert System Building Tool Based on Object-Rule Knowledge Representation (in Vietnamese), *Journal of Computer Science and Control*, Vol.5, N.1, 16-20, 1989.
 - Ho, T.B., Pham N.K., Bach H.K., Hoang T.M., Ngo C.S., Nguyen T.D., Tong T.H., Hoang Q.T., Development and Applications of the TESOR Expert System Generator, *Proceedings of NCSR of Vietnam*, Vol.2, N.2, 3-14, 1992.
 - Ho, T.B., Dao N.A., Coupling of Knowledge and Data in System TESOR, *Journal of Computer Science and Control*, Vol.8, N.2, 21-31, 1992.
 - Tong, T.H., Ho, T.B., A New Generalization Algorithm (in Vietnamese), *Journal of Computer Science and Control*, Vol.6, N.3, 19-26, 1990.

Books and Book Chapters

- Cao. T., Lim, E.P., Zhou, Z.H., Ho, T.B., Motoda, H., Cheung, D., *Advances in Knowledge Discovery and Data Mining* (Eds.), Proceedings of the 19th Pacific-Asia Conference on Knowledge Discovery and Data Mining, Lecture Notes in Artificial Intelligence LNAI 9007, LNAI 9008, Springer, 2015.
- Tseng, V.S., Ho, T.B., Zhou, Z.-H., Chen, A.L.P., Kao, H.-Y., *Advances in Knowledge Discovery and Data Mining* (Eds.), Proceedings of the 18th Pacific-Asia Conference on Knowledge Discovery and Data Mining, Lecture Notes in Artificial Intelligence LNAI 8443, LNAI 8444, Springer, 2014.
- Ho, T.B., Taewijit, S., Ho, Q.B., Dam, H.C., Big Data and Service Science (Chapter 7), *Progressive Trends in Knowledge and System-based Science for Service Innovation*, Kosaka, M. and Shirahada, K. (Eds.), IGI Global, 2013.
- Ho, T.B., *Knowledge Discovery* (Chapter 4), Knowledge Science – Modeling the Knowledge Creation Process, Y. Nakamori (Ed.), CRC Press and Taylor & Francis, 57-81, 2011.

-
- Nguyen, T.P., Ho, T.B., *Mining multiple biological data for reconstructing signal transduction networks*, Data Mining: Foundations and Intelligent Paradigms, D.E. Holmes, L.C. Jain (Eds.), Springer-Verlag, 163-185, 2011.
 - Theramunkong, T., Kijisirikul, B., Cercone, N., Ho, T.B., *Advances in Knowledge Discovery and Data Mining* (Eds.), Proceedings of the 13th Pacific-Asia Conference on Knowledge Discovery and Data Mining, Lecture Notes in Artificial Intelligence LNAI 5476, Springer, 2009.
 - Ho, T.B., Zhou, Z.H., *PRICAI 2008: Trends in Artificial Intelligence* (Eds.), Proceedings of the 10th Pacific Rim Conference on Artificial Intelligence, Springer, LNAI 5351.
 - Ho, T.B., Dong, T.B.T., Duong, A.D., Nguyen, D.T. (2006). *ITACS 2006, Theories and Applications of Computer Science Advances in Knowledge Discovery and Data Mining* (Eds.), World Scientific, 2006.
 - Ho, T.B., Cheung, D. Liu, H., *Advances in Knowledge Discovery and Data Mining* (Eds.), Proceedings of the 9th Pacific-Asia Conference on Knowledge Discovery and Data Mining, Lecture Notes in Artificial Intelligence LNAI 3518, Springer, 2005.
 - Ho, T.B., Knowledge Discovery (Chapter 4), *Knowledge Technology and Science*, Y. Nakamori (Ed.), CRC Press and Taylor & Francis (to appear).
 - Huynh, V.N., Ho, T.B., Nakamori, Y., An Overview on the Approximation Quality Based on Rough-Fuzzy Hybrids, Fuzzy Sets and Their Extensions: Representation, Aggregation and Models. Intelligent Systems from Decision Making to Data Mining, Web Intelligence and Computer Vision, H. Bustince, F. Herrera, J. Montero (Eds.), 493-515, Springer, 2008.
 - Nguyen, H.S., Ho, T.B., Rough Document Clustering and the Internet, *Handbook of Granular Computing*, Pedrycz, Skowron, Kreinovich (Eds.), John Wiley & Sons, 987-1004, 2008.
 - Ho, T.B., Nguyen, T.P., Tran, T.N., Study of protein-protein interactions from multiple data sources, *Advances in Data Warehousing and Mining*, David Taniar (Ed.), IGC Publishers, Chapter XII, 280-307, 2007.
 - Ho, T.B., Finding Rules in Data, *Book Selected Contributions in Data Analysis and Classification*, P. Brito, P. Bertrand, G. Cucumel, F. De Carvalho (Eds.), Springer, 387-396, 2007.
 - Ho, T.B., Kawasaki, S., Granat, J., Knowledge Acquisition by Machine Learning and Data Mining, *Chapter 4, Creative Environments*, Wierzbicki and Nakamori (Eds.), Springer-Verlag, 69-91, 2007.
 - Ho T.B., Nguyen T.D., Kawasaki S., Le, S.Q., Combining Temporal Abstraction and Data Mining Methods in Medical Data Analysis, *Business and Technology of the New Millenium*, C. T. Leondes (Ed.), Kluwer Academic Publishers, 198-222, 2005.
 - Ho T.B., Formal Concept Analysis and Rough Set Theory in Clustering, *The Mathematical Foundation of Informatics*. Do L.V. & Ito M. (Eds.), World Scientific, 43-53, 2005.
 - Ho, T.B., Nguyen, T.D., Kawasaki, S., Failures and Successes in Medical Data Mining, *Chapter 6, Knowledge-Based Intelligent Systems for Health Care*, T. Ichimura and Yoshida, K. (Eds.), Advanced Knowledge International Publishers, 167-212, 2004.

-
- Ho, T.B., Nguyen, T.D., Nguyen, D.D., A User-Centered Visual Approach to Data Mining. The system D2MS, *Intelligent Information Processing*, M. Musen, B. Neumann, R. Studer (Eds.), Kluwer Academic Publishers, 213-224, 2002.
 - Ho T.B., Nguyen T.D., Nguyen D.D., Kawasaki S., Visualization of Data and Knowledge in the Knowledge Discovery Process, *Active Mining: New Directions of Data Mining*, H. Motoda (Ed.), IOS Press, 229-238, 2002.
 - Ho, T.B., Kawasaki, S., Nguyen, N.B., Documents Clustering Using Tolerance Rough Set Models and Its Application to Information Retrieval, *Intelligent Exploration of the Web*, P.S. Szczepaniak, J. Segovia, J. Kacprzyk, L.A. Zadeh (Eds.), Physica-Verlag, 181-196, 2002.
 - Ho, T.B., Nguyen, T.D., Model Selection in Knowledge Discovery and Data Mining, Chapter IV-1 in *Intelligent Systems: Techniques and Applications*, C.T. Leondes (Ed.), CRC Press, Vol. 4, IV.1-18, 2002.
 - Ho, T.B., *Introduction to Knowledge Discovery in Databases*, UNESCO course book, 110 pages, 2001.
 - Ho, T.B., *Studies on Intelligence*, Textbook, 172 pages, JAIST 2001.
 - Ho, T.B., Knowledge Discovery from Unsupervised Data in Support of Decision Making, Chapter 15 in *Knowledge Based Systems: Techniques and Applications*, C.T. Leondes (Ed.), Academic Press, 435-461, 2000.
 - Ho, T.B., Two Approaches to the Representation and Interpretation of Concepts in Concept Lattices, in *Information Modelling and Knowledge Bases*, E. Kawaguchi, H. Kangassalo, H. Jaakola, I. Hamid (Eds.), IOS Press, 12-25, 2000.
 - Ho, T.B., Rule Induction in Constructing Knowledge-Based Decision Support Systems, Chapter 13 in *Decision Support Systems for Sustainable Development. A Resource Book of Methods and Applications*, G. Kersten, Z. Mikolajuk, A. Gar-On Yeh (Eds.), Kluwer Academic Publishers, 263-276, 1999.
 - Funakoshi, K., Ho, T.B., A Rough Set Approach to Information Retrieval, Chapter 9 in *Rough Sets in Knowledge Discovery*, L. Polkowski, A. Skowron (Eds.), Physica-Verlag, 166-177, 1998.
 - Ho, T.B., Nguyen, T.D., Shimodaira, H., Kimura, M., An Interactive-Graphic Environment for Discovering and Using Conceptual Knowledge, in *Information Modelling and Knowledge Bases IX*, J.P. Charrel, H. Jaakkola, H. Kangassalo, E. Kawaguchi (Eds.), IOI Press, 131-145, 1998.
 - Ho, T.B., Nguyen, T.D., Kimura, M., Induction of Decision Trees Based on the Rough Set Theory, in *Data Science, Classification and Related Methods*, C. Hayashi et al. (Eds.), Springer, 215-222, 1997.
 - Ho, T.B., Unsupervised Concept Learning Using Rough Concept Analysis, in *Data Science, Classification and Related Methods*, C. Hayashi et al. (Eds.), Springer, 404-411, 1997.

-
- Ho, T.B., Incremental Conceptual Clustering in the Framework of Galois Lattice, in *KDD: Techniques and Applications*, H. Lu, H. Motoda and H. Luu (Eds.), World Scientific, 49-64, 1997.
 - Ho, T.B., Automation in Knowledge Engineering Via Inductive Learning, in *Advanced IT Tools*, N. Terashima and E. Altman (Eds.), Chapman & Hall, 543-550, 1996.
 - Ho, T.B., A Hybrid Model for Concept Formation, in *Information Modelling and Knowledge Bases VII*, Y. Tanaka et al. (Eds.), IOS Press, 22-35, 1996.
 - Tong, T.H., Ho, T.B., A Method for Generating Rules from Examples and its Applications, in *Symbolic-Numeric Data Analysis and Learning*, E. Diday, G. Lechevallier. (Eds.), Nova Science Publisher Inc., New York, 493-504, 1991.
 - Ho, T.B., Pham Ngoc Khoi, Doan Ngoc Lien, Do Viet Nga, *OREST User's Manual*, 120 pages, (in Vietnamese) Institute of Informatics, Hanoi 1989.

In Refereed Conference Proceedings

- Dang, T.T., , Ouankhamchan, P., Ho, T.B. (2016). Detection of New Drug Indications from Electronic Medical Records, IEEE International Conference on Research, Innovation and Vision for Future, RIVF 2016, Hanoi, November 7-9 [PDF].
- Moharasan, G., Ho, T.B. (2016). A semi-supervised approach for temporal information extraction from clinical text, IEEE International Conference on Research, Innovation and Vision for Future, RIVF 2016, Hanoi, November 7-9.
- Pham, D., Le, B.K., Le, L., Ho, T.B. (2016). System pharmacology: application of network theory in predicting potential adverse drug reaction based on gene expression data, IEEE International Conference on Research, Innovation and Vision for Future, RIVF 2016, Hanoi, November 7-9.
- Nguyen, D.K., Tran, Q.D., Ho, T.B. (2016). Simplicial Nonnegative Matrix Tri-Factorization: Fast Guaranteed Parallel Algorithm, The 23rd International Conference on Neural Information Processing, ICONIP2016, Kyoto 16-21, 2016.
- Dang, T.T., Ho, T.B., Mixture of language models utilization in scored-based sentiment classification on clinical narratives, *IEA/AIE 2016*, 2-4 August 2016, Morioka, Japan, 2016.
- Matsuo, R., Ho, T.B., Mortality Prediction Using a Semantic Term Weighting Method Based on Severity of Patients, *The 30th Annual Conference of the Japanese Society for Artificial Intelligence (JSAI)*, June 6-9, 2016.
- Matsuo, R., Ho, T.B., An Analysis of Four Medical Term Weighting Methods on Medical Information Retrieval, *The 20th Spring Conference of the Japan Association for Medical Informatics (JAMI 2016)*, June 2-4, 2016.

-
- Nguyen, D.P., Vo, T.N.C., Ho, T.B., A Hybrid Semi-Supervised Learning Approach to Identifying Protected Health Information in Electronic Medical Records, *10th International Conference on Ubiquitous Information Management and Communication*, (ACM IMCOM 2016), January 4-6, 2016.
 - Bui, N.T., Le, S.V., Ho, T.B., MVRM: A hybrid approach to predict siRNA efficacy, *International Conference on Knowledge and Systems Engineering KSE 2015*, 2015.
 - Ho T.B., Hoang K.H., Huynh T.A., Nguyen D.K., An initial study of drug-disease relationships using EMRs, *Asia Conference on Information Systems ACIS 2014*, 1-3 December, Nha Trang, 2014.
 - Matsuo R., Ho T.B., An Ontology Based Term Weighting Method for Exploiting EMR, *Asia Conference on Information Systems ACIS 2014*, 1-3 December, Nha Trang, 2014.
 - Moharasan G., Ho T.B., Challenges and Opportunities of Temporal Information Extraction from Electronic Medical Records, *Asia Conference on Information Systems ACIS 2014*, 1-3 December, Nha Trang.
 - Nguyen V.L., Ho T.B., Temporal Link Prediction Using CP-Decomposition, *Asia Conference on Information Systems ACIS 2014*, 1-3 December, Nha Trang, 2014.
 - Le, N.T, Ho, T.B., Ho, B.H., Tran, D.H., A nucleosomal approach to inferring causal relationships of histone modifications, *Asia-Pacific Bioinformatics Conference APBC 2014*, 17-19 January, Shanghai, 2014
 - Nguyen, D.K., Than, K., Ho, T.B., Simplicial Nonnegative Matrix Factorization, *IEEE International Conference on Research, Innovation and Vision for Future*, RIVF 2013, Hanoi, November 10-13 (**Best student paper award**), 2013.
 - Nguyen, Q.D., Pham, T.H., Ho, T.B., Nguyen, V.H., Tran, D.H., Reconstruction of Triple-wise Relationships in Biological Networks from Profiling Data, *The 9th International Conference on Computing and Information Technology (IC2IT2013)*, Bangkok, 9-10 May 2013, Springer AISC 209, 205-215, 2013.
 - Bui, N.T., Ho, T.B., Kawasaki, S., An Effective Method for Generating siRNA Design Rules, *The 5th Asian Conference On Intelligent Information and Database Systems, ACIID 2013*, Kuala Lumpur, 18-20 March 2013, LNAI 7803, 196-205, 2012.
 - Ho, T.B., Takabayashi, T., Kanda, T., Kawasaki, S., Le, T.N., Bui, N.T., Than, Q.K., From Clinical to Genomics Data in Hepatitis Study, *The First Asian Conference on Information Systems*, SiemRiep 6-8 December, 2012.
 - Bui, N.T., Ho, T.B., Kawasaki, S., A Sequential Apriori Algorithm for Discriminative Design Rules of Effective siRNA Sequences, *13th International Symposium on Knowledge and Systems Science* , Kanazawa 19-20 November 2012.

-
- Than, K., Pham. N.K., Nguyen, D.K., Ho, T.B., Supervised dimension reduction with topic model, *4th Asian Conference on Machine Learning 2012*, 4-6 November 2012, Singapore, 2012.
 - Than, K., Ho, T.B., Fully sparse topic models, *European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML PKDD)*, 24-28 September 2012, Bristol, UK, 2012.
 - Ho, B.H., Ho, T.B., Analysis of gene expression behaviour by nucleosome and protein binding profiles, *the 10th Asia Pacific International Conference on Bioinformatics and Biomedical Technology*, ICBBT 2012, Singapore, 26-28 February 2012.
 - Le, N.T., Ho, T.B., Ho, B.H., Computational reconstruction of transcriptional relationships from ChIP-Chip data, *the 10th Asia Pacific Bioinformatics Conference*, Melbourne, Australia, 17-19 January 2012.
 - Hoang, C., Le, A.C., Ho, T.B., Exploiting Non-Parallel Corpora for Statistical Machine Translation, *IEEE RIVF International Conference on Information and Communication Technologies*, Ho Chi Minh City, February 27-March 2, 2012.
 - Pham, T.H., Ho, T.B., Nguyen, Q.D., Nguyen, V.H., Tran, D.H., Multivariate Mutual Information Measures for Discovering Biological Networks, *IEEE RIVF International Conference on Information and Communication Technologies*, Ho Chi Minh City, February 27-March 2, 2012.
 - Le, N., Ho, T.B., A Semi-Supervised Method for Discriminative Motif Finding and Its Application to Hepatitis C Virus Study, *4th Asian Conference on Intelligent Information and Database Systems ACIIDS 2012*, Kaohsiung, Taiwan, 19-21 March 2012.
 - Ho, T.B., Kawasaki, S., Kanda, T., Le, N.T. Le, T.N., Takabayashi, K. (2011), Finding HCV NS5A Discriminative Motifs for Prediction of IFN/RBV Therapy Effect, Workshop on Data Mining in Functional Genomics and Proteomics: Current Trends and Future Directions, European conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases, September 2011, Athens.
 - Dam, H.C., Ho, T.B., Sugiyama, A. (2011). Simulation-based Data Mining Solution to the Structure of Water Surrounding Proteins. *Twenty-Second International Joint Conference on Artificial Intelligence (IJCAI-2011)*, Barcelona, 16-2 July 2011.
 - Kawasaki, S., Ho, T.B., Kanda, T., Yokosuka, O., Takabayashi, K., Le, T.N., Discovering Relationship between Hepatitis C Virus NS5A Protein and Interferon/Ribavirin Therapy, *Fifth International Conference on Knowledge, Information and Creativity Support Systems KICSS'10, (best paper award)*, Chiangmai, November 25 – 27, 2010.
 - Pham, N.K., Ho, T.B., Mining parallel documents across Web sites, *The Sixth Asia Information Retrieval Societies Conference AIRS 2010*, 1-3 December, Taipei, 2010.

-
- Ho, B.H., Le, N.T., Ho, T.B., Quantitatively assessing the effect of regulatory factors on nucleosome dynamics, *IEEE-RIVF International Conference on Computing and Communication Technologies*, 1-4 November, Hanoi, 2010.
 - Luong, T.D., Ho, T.B., Nguyen, T.B., Privacy Preserving Classification in Two-Dimension Distributed Data, *International Conference on Knowledge and Systems Engineering KSE 2010*, 7-9 October, Hanoi, 2010.
 - Sugiyama, A., Mizukami, T., Dam, H.C., Ho, T.B. (2009) Support Vector Machine Study for Dynamical Water Classification Problem in Biosystems, *Fourth International Conference on Knowledge, Information and Creativity Support Systems (KICSS 2009)*, November 25-28, Seoul, 7-16.
 - Ho, T.B., Takabayashi, K., Pham, T.H., Nguyen, T.P., Kawasaki, S., Tran, D.H., Towards service-oriented knowledge discovery in biomedicine research, *Workshop on Next Generation of Knowledge Discovery and Data Mining, ECML/PKDD 2009*, Slovenia, 7-11 September, 2009.
 - Vo, D.B., Nguyen, Q.H., Ho, T.B., Le, H.B., Parallel Method for Mining High Utility Itemsets from Vertical Distributed Databases, *13th International Conference on Knowledge-Based and Intelligent Information & Engineering Systems*, 29-30 September, Santiago, Chile, 2009.
 - Nguyen, L.M., Nguyen, H.T., Nguyen, P.T., Ho, T.B., Shimazu, A., An Empirical Study of Vietnamese Noun Phrase Chunking with Discriminative Sequence Models, *7th Workshop on Asian Language Resources at 47th Annual Meeting of the Association for Computational Linguistics, ACL-IJCNLP 2009*, 2-7 August, Singapore, 2009.
 - Luong, T.D., Ho, T.B., Privacy preserving EM-based Clustering, *IEEE International Conference on Research, Innovation, and Vision for the Future in Computing and Communication Technologies, RIVF09*, 13-17 July 2009, Da Nang city, IEEE Press, 2009.
 - Luong, T.D., Ho, T.B., Privacy Preserving for Multivariate Outlier Detection, *Third International Conference on Knowledge, Information and Creativity Support Systems (KICSS 2008)*, December 22-23, Hanoi, 7-16, 2008.
 - Tran, D.H., Ho, T.B., Satou, K., Pham, T.H., A computational method for classifying and analyzing tumor samples using microRNA expression profiles, *Third International Conference on Knowledge, Information and Creativity Support Systems (KICSS 2008)*, December 22-23, Hanoi, 120-127 (Student Best Paper Award), 2008.
 - Nguyen, P.T., Le, A.C., Shimazu, A., Ho, T.B., Integration of Word Sense Disambiguation into Phrase-Based Statistical Machine Translation, *Empirical Methods for Asian Language Processing Workshop (AMALP 2008)*, in conjunction with Tenth Pacific Rim International Conference on Artificial Intelligence (PRICAI-08), December 16-19, Hanoi, 114-122, 2008.
 - Le, N.T., Tran, D.H., Ho, T.B., Combinatorial effects of histone modifications and DNA sequences on nucleosome dynamics, *Workshop on Knowledge, Language, and Learning in*

Bioinformatics (KLLBI 2008), in conjunction with Tenth Pacific Rim International Conference on Artificial Intelligence (PRICAI-08), December 16-19, Hanoi 87-97, 2008.

- Nguyen, T.P., Satou, K., Ho, T.B., Takabayashi, K., Constructing Signal Transduction Networks Using Multiple Signaling Feature Data, *Statistical and Relational Learning in Bioinformatics 2008 Workshop*, PKDD/ECML 2008, September 15-19, Antwerp, Belgium, 2008.
- Nguyen, C.H., Ho, T.B., Kreinovich, V., Estimating Quality of Support Vector Machines Learning Under Probabilistic and Interval Uncertainty: Algorithms and Computational Complexity, *International Workshop on Interval/Probabilistic Uncertainty and Non-Classical Logics (UncLog'08)*, Kanazawa, March 25-28, Advances in Soft Computing 46, Springer, 57-69, 2008.
- Tanabe, H., Ho, T.B., Nguyen, C.H., Kawasaki, S., Simple but effective methods of combining kernels for the prediction problem in biology, *IEEE International Conference on Research, Innovation, and Vision for the Future in Computing and Communication Technologies*, RIVF08, 13-17 July 2008, Ho Chi Minh city, IEEE Press, 71-78, 2008.
- Nguyen, P.T., Shimazu, A., Ho, T.B., Nguyen, L.M., Nguyen, V.V., A Tree-to-String Phrase-based Model for Statistical Machine Translation, *Twelfth Conference on Computational Natural Language Learning*, Manchester, 143-150, 16-17 August 2008.
- Takabayashi, T., Ho, T.B., Yokoi, H., Nguyen, T.D., Kawasaki, S., Le, S.Q., Suzuki, T., Yokosuka, O., Temporal Abstraction and Data Mining with Visualization of Laboratory Data, *Medinfo 2007 Congress*, 20-24 August, Brisbane, 2007, IOI Press, 1304-1308, 2007.
- Nguyen, T.P., Ho, T.B., Combining Domain Fusions and Domain-Domain Interactions to Predict Protein-Protein Interactions, Workshop on Data Mining in Bioinformatics BIODDD07, 13th International Conference on Knowledge Discovery and Data Mining ACM SIGKDD 2007, San Jose, August 12-16, 27-34, 2007.
- Nguyen, T.P., Ho, T.B., A Semi-Supervised Learning Approach to Disease Gene Prediction, *2007 IEEE International Conference on BioInformation and BioMedicine (BIBM 2007)*, Silicon Valley, November 2-4, 423-428, 2007.
- Pham, T.H., Ho, T.B., Tran, D.H., Satou, K., Prediction of Histone Modifications in DNA sequences, *IEEE 7th International Symposium on Bioinformatics & Bioengineering (IEEE BIBE 2007)*, Cambridge-Boston, Massachusetts, October 14-17, 959-966, 2007
- Nguyen, T.P., Ho, T.B., Prediction of protein-protein interactions and disease genes by machine learning, *International Workshop on Data Mining and Statistical Science (DMSS2007)*, Tokyo, October 5-6, 51-70, 2007.
- Ho, T.B., Dam, H.C., Kawasaki, S., Pham, T.H., Nguyen, T.P., Scientific data mining: a new direction in computational science, *Malaysia-Japan International Symposium on Advanced Technology (MJISAT 2007)*, Kuala Lumpur, November 12-15, 2007.

-
- Nguyen, T.P., Ho, T.B., Nguyen, N.B., Prediction of Protein-Protein Interactions Using Bayesian Networks, *The 2nd International Conference on Knowledge, Information and Creativity Support Systems KICSS07*, Ishikawa, November 5-7, 207-214, 2007.
 - Nguyen, T.B., Ho, T.B., Pham, C., Kawasaki, S., Matching Complex Documents Using Tolerance Rough Set Model, *The 8th International Symposium on Knowledge and Systems Sciences KSS07*, Ishikawa, November 5-7, 156-162, 2007.
 - Ho, T.B., Nguyen, C.H., Kawasaki, S., Le, S.Q., Takabayashi, K., Temporal Relations Extraction in Mining Hepatitis Data, *11th Pacific-Asia Conference on Knowledge Discovery and Data Mining PAKDD'07*, 22-25 May, Nanjing. Lecture Notes in Artificial Intelligence LNAI 4426, Springer, 523-530, 2007.
 - Nguyen, C.H., Ho, T.B., Kernel Matrix Evaluation, *Twentieth International Joint Conference on Artificial Intelligence IJCAI'07*, Hyderabad, January 6-12, 987-992, 2007.
 - Ho, T.B., Scientific data mining: Opportunities and challenges (invited talk), *International Symposium on Towards Creating New Industries Based on Inter-Nanoscience*, December 8-9, Awaji, 61-64, 2006.
 - Nguyen, T.P., Ho, T.B., Discovering signal transduction networks using signaling domain-domain interactions, *Genome Informatics 2006*, Yokohama, December 18-20, Universal Academic Press, Vol. 16, No. 2, 35-45, 2006.
 - Nguyen, T.P., Ho, T.B., Prediction of domain-domain interactions using inductive logic programming from multiple genome databases, *Discovery Science DS'06*, 7-10 October, Barcelona, Springer LNAI 4256, 185-196, 2006.
 - Takabayashi, K., Ho, T.B., Nguyen, C.H., Kawasaki, S., Yokoi, H., Suzuki, T., Yokosuka, O., Exploiting Temporal Relations in Mining Hepatitis Data, *26th Joint Conference on Medical Informatics*, November 1-4, Sapporo, 2006.
 - Nguyen, C.H., Ho, T.B., Sampling for Imbalanced Data Learning, *The International Workshop on Data-Mining and Statistical Science (DMSS2006)*, Sapporo, September 25-26, 12-19, 2006.
 - Zhang, H., Lin, S.M., Huang, W., Kawasaki, S., Ho, T.B., Multiscale Feature Extraction for Time Series Classification with Hybrid Feature Selection, *International Conference on Intelligent Computing ICIC'06*, Kunming, August 16-19, Lecture Notes in Control and Information Sciences LNCIS 344, 939-944, 2006.
 - Kawasaki, S., Ho, T.B., An Integrated Approach in Medical Data Mining, *The First International Conference on Knowledge, Information and Creativity Support Systems KICSS'06*, 1-4 August, Ayutthaya, 24-31, 2006.
 - Ben Hassine, A., Ho, T.B., Asynchronous Constraint-based Approach - New Solution for Any Constraint Problem, *Workshop Rational, Robust, and Secure Negotiations in Multi-Agent Systems, Fourth Inter. Joint Conf. on Autonomous Agents and Multi Agent Systems AAMAS'06*, Hakodate, 2006. Studies in Computational Intelligence, Springer, 169-184, 2008.

-
- Nguyen, D.D., Ho, T.B., Kawasaki, S., Knowledge Visualization in Hepatitis Study, *Asia Pacific Symposium on Information Visualization APVIS 2006*, February 1-3, Tokyo, Australian Computer Society, 59-62, 2006.
 - Le, M.H., Ho, T.B., Nakamori, Y., Detecting Citation Types Using Finite State Machines, *10th Pacific-Asia Conf. on Knowledge Discovery and Data Mining PAKDD'06*, 9-12 April, Singapore. Lecture Notes in Artificial Intelligence, LNAI 3918, 265-274, Springer, 2006.
 - Le, S.Q., Ho, T.B., Le, S.V., Association-Based Dissimilarity Measures for Categorical Data: Limitation and Improvement, *10th Pacific-Asia Conference on Knowledge Discovery and Data Mining PAKDD'06*, 9-12 April, Singapore. Lecture Notes in Artificial Intelligence, LNAI 3918, 493-498, Springer, 2006.
 - Huynh, V.N., Nakamori, Y., Ryoike, M., Ho, T.B., A Fuzzy Target Based Model for Decision Making Under Uncertainty, *IEEE World Congress on Computational Intelligence WCCI'06*, Vancouver. July 16-21, 2006, 1611-1618, 2006.
 - Huynh, V.N., Nakamori, Y., Ho, T.B., Utility Function Induced by Fuzzy Target in Probabilistic Decision Making, *The Fifth International Conference on Rough Sets and Current Trends in Computing RSCTC 2006*, Kobe, November 6-8. Lecture Notes in Artificial Intelligence LNAI 4259, S. Greco et al. (Eds.), 296-305, Springer, 2006.
 - Nguyen, T.L., Elnaffar, S., Katayama, T., Ho, T.B., UMR2: A Better and More Realistic Scheduling Algorithm for the Grid, *International Conference on Parallel and Distributed Computing and Systems (PDCS'06)*, Dallas, November 13-15, 432-437, 2006.
 - Nguyen, T.L., Elnaffar, S., Katayama, T., Ho, T.B., Grid Scheduling Using 2-Phase Prediction (2PP) and CPU Power, *IEEE Innovations and Information Technology (IIT'06)*, Dubai, November 19-21, ISBN 1-4244-0674-9, 2006.
 - Nguyen, T.L., Elnaffar, S., Katayama, T., Ho, T.B., MRRS: A More Efficient Algorithm for Scheduling Divisible Workloads of Grid Applications, *IEEE/ACM International Conference on Signal-Image Technology and Internet-Based Systems (SITIS'06)*, Hammamet (Tunisia), December 17-21, 280-290, 2006.
 - Zhang, H., Ho, T.B., Lin, M.S., Liang, X., Feature Extraction for Time Series Classification Using Discriminating Wavelet Coefficients, *Third International Symposium on Neural Networks (ISNN 2006)*, 28-31 May, Chengdu, Lecture Notes in Artificial Intelligence LNAI 3971, 1394-1399, Springer, 2006.
 - Phan, X.H., Nguyen, L.M., Horiguchi, S., Inoguchi, Y., Ho, T.B., Parallel Training of CRFs: A Practical Approach to Build Large-Scale Prediction Models for Sequence Data, *Workshop on Parallel Data Mining, ECML/PKDD 2006, Berlin, September 18-22*, 51-63, 2006.
 - Tran, D.H., Pham, T.H., Satou, K., Ho, T.B., Conditional Random Fields for Predicting and Analyzing Histone Occupancy, Acetylation and Methylation Areas in DNA Sequences, *4th European Workshop on Evolutionary Computation and Machine Learning in Bioinformatics (EvoBIO2006)*, Budapest, 10-12 April, Springer, 221-230, 2006.

-
- Phan, X.H., Nguyen, L.M., Inoguchi, Y., Ho, T.B., Horiguchi, S., High-Performance Training of Conditional Random Fields for Large-Scale Sequential Labeling Applications, *International Conf. on High Performance Scientific Computing*, March 6-10, 2006, Hanoi, 2006.
 - Pham, T.H., Tran, D.H., Ho, T.B., Satou, K., Valiente, G., Qualitatively Predicting Acetylation and Methylation Areas in DNA Sequences, *Genome Informatics 2005*, Yokohama, Universal Academic Press, Vol. 15, No. 2, 3-11, 2005.
 - Nguyen, T.P., Ho, T.B., Nguyen, N.B., Discovering reliable protein interactions using Bayesian Networks (poster), *Genome Informatics 2005*, Yokohama, Universal Academic Press, 2005.
 - Nguyen, T.L., Elnaffar, S., Katayama, T., Ho, T.B., A Scheduling Method for Divisible Workload Problem in Grid Environment, *6th International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT'05)*, Dalian, China, IEEE Computer Society, 513-517, 2005.
 - Kawasaki, S., Ho, T.B., Extracting background knowledge from medical literature, *First World Congress of the International Federation for Systems Research (IFSR'05)*, Symposium on Data/Text Mining from Large Databases, Kobe, 15-17 November, S5-4-3, 2005
 - Phan, X.H., Nguyen, L.M., Ho, T.B., Inoguchi, Y., Horiguchi, S., Co-Training of Conditional Random Fields for Segmenting Sequence Data, *First World Congress of the International Federation for Systems Research (IFSR'05)*, Symposium on Data/Text Mining from Large Databases, Kobe, 15-17 November, S5-2-4 (Best student paper award), 2005.
 - Nguyen, L.M., Shimazu, A., Ho, T.B., Phan, X.H., Horiguchi, S., Sentence extraction with support vector machine ensemble, *First World Congress of the International Federation for Systems Research (IFSR'05)*, Symposium on Data/Text Mining from Large Databases, Kobe, 15-17 November, S5-2-5, 2005.
 - Zhang, H., Ho, T.B., Kawasaki, S., Wrapper feature extraction for time series classification using singular value decomposition, *First World Congress of the International Federation for Systems Research (IFSR'05)*, Symposium on Data/Text Mining from Large Databases, Kobe, 15-17 November, S5-4-4, 2005.
 - Nagai, K., Ho, T.B., Passage Associations Extraction from Document Collections, *Conference of Pacific Association for Computational Linguistics PACLING'05*, Tokyo 24-27, August, 258-263, 2005.
 - Nguyen, C.H., Ho, T.B., An Imbalanced Data Rule Learner, *9th European Conference on Principles and Practice of Knowledge Discovery in Databases (PKDD)*, Porto, 3-7 October, Springer LNAI 3721, 617-624, 2005.
 - Tran, T.N., Satou, K., Ho, T.B., Using Inductive Logic Programming for Predicting Protein-Protein Interactions from Multiple Genomic Data, *9th European Conference on Principles*

and Practice of Knowledge Discovery in Databases (PKDD), Porto, 3-7 October, Springer LNAI 3721, 321-330, 2005.

- Phan, X.H., Nguyen, L.M., Horiguchi, S., Ho, T.B., Inoguchi, Y., Classification with Maximum Entropy Modeling of Predictive Association Rules, *16th European Conference on Machine Learning*, Porto, 3-7 October, Springer LNAI 3720, 682-689, 2005.
- Phan, X.H., Nguyen, L.M., Ho, T.B., Horiguchi, S., Improving Discriminative Sequential Learning with Rare-but-Important Associations, *ACM International Conference on Knowledge Discovery and Data Mining KDD-05*, August 21-24, Chicago, ACM, 304-313, 2005.
- Ben Hassine, A., Ho, T.B., Performing more than AC for Hard Distributed Constraint Satisfaction Problems, *Workshop Rational, Robust, and Secure Negotiations in Multi-Agent Systems, The Fourth International Joint Conference on Autonomous Agents and Multi Agent Systems*, Utrecht, 25-29 July, Book Series in Computational Intelligence, Springer, 83-94, 2005.
- Pham, T.H., Ho, T.B., Clemente, J., Satou, K., Rule Evaluation Heuristics for Knowledge Discovery, *Workshop on Knowledge Discovery and Data Management in Biomedical Science (KDDMBS)*, 9th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD-05), 18-20 May 2005, Hanoi.
- Zhang, H., Ho, T.B., Huang, W., Blind Feature Extraction for Time-Series Classification Using Haar Wavelet Transform, *Second International Symposium on Neural Networks*, Chongqing, May 30 - June 1, Lecture Notes in Computer Science LNCS 3497, Springer Verlag, 605-610, 2005.
- Pham, T.H., Clemente, J., Satou, K., Ho, T.B., Computational Discovery of Transcriptional Regulatory Rules, *4th European Conference on Computational Biology*, September 28-October 1, 2005, Madrid, ii101-ii107, 2005.
- Nguyen, D.D., Ho, T.B., An Efficient Method for Simplifying Support Vector Machines, *The 22th International Conference on Machine Learning, ICML 2005*, Bonn, 7-11 August, AAAI Press, 617-624, 2005
- Nguyen, D.D., Ho, T.B., Speeding-up Model Selection for Support Vector Machines, *18th International Conference of Florida Artificial Intelligence Research Society FLAIRS*, Florida, 16-18 May, AAAI Press, 436-441, 2005.
- Zhang, H., Ho, T.B., Finding The Clustering Consensus of Time Series with Multi-scale Transform, *Fourth IEEE International Workshop on Soft Computing as Transdisciplinary Science and Technology WSTST'05*, Muroran, 25-27 May, Springer, 1081-1090, 2005.
- Ho, T.B., Le, S.Q., Nguyen, C.H., Kawasaki, S., Yokoi, H., Takabayashi, K., Temporal Logic in Mining Hepatitis Data, *Japan-Vietnam Joint Workshop on Active Mining*, Hanoi, 4-7 December, 55-60, 2004. Excellent research paper award from JSAI SIG-KBS in 2004 (Japanese Society for Artificial Intelligence).

-
- Ben Hassine, A., Ho, T.B., Restricted Path Consistency Enforcement for Any Constraint Network, *Japan-Vietnam Joint Workshop on Active Mining*, Hanoi, 4-7 December, 79-84, 2004
 - Nguyen, N.B., Ho, T.B., Than, V.C., Nguyen, T.P., A Mixed Similarity For Data with Numeric, Symbolic and Ordinal Attributes, *Japan-Vietnam Joint Workshop on Active Mining*, Hanoi, 4-7 December, 67-72, 2004.
 - Ho, T.B., Scientific Data Mining, *5th International Symposium on Knowledge and Systems Sciences*, Ishikawa 10-12 November, 346-352, 2004.
 - Pham, T.H., Satou, K., Ho, T.B., Mining yeast transcriptional regulatory modules from factor DNA-binding sites and gene expression data, *Genome Informatics*, Yokohama, Universal Academic Press, Vol. 14, No. 2, 287-295, 2004.
 - Le, S.Q., Ho, T.B., Phan, T.T.H., A novel graph-based similarity measure for 2D chemical structures, *Genome Informatics*, Yokohama, Universal Academic Press, Vol. 14, No. 2, 82-91, 2004.
 - Ho, T.B., Nguyen, C.H., Dam, H.C., Crystal Structure Determination using Data Mining Methods, *5th Inter. Symposium on Knowledge and Systems Sciences KSS'04*, Ishikawa, 81-86, 2004.
 - Le, M.H., Ho, T.B., Nakamori Y, Detecting Emerging Trends from Scientific Corpora, *5th International Symposium on Knowledge and Systems Sciences KSS'04*, Ishikawa, 243-248, 2004.
 - Nguyen D.D., Ho, T.B., Efficient Model Selection for Support Vector Machines, *5th International Symposium on Knowledge and Systems Sciences KSS'04*, Ishikawa, 92-96, 2004.
 - Nagai K., Ho T.B., Rule Mining in Textual Data Using Passages, *5th International Symposium on Knowledge and Systems Sciences KSS'04*, Ishikawa, 137-142, 2004.
 - Phan, X.H., Horiguchi, S., Ho T.B., L.M. Nguyen, A Unsupervised Approach to Co-reference Resolution, *5th International Symposium on Knowledge and Systems Sciences KSS'04*, Ishikawa, 190-195, 2004.
 - Tran, T.N., Ho, T.B., Predicting Protein-Protein Interactions for the Budding Yeast using Inductive Logic Programming and Multiple Sources, *5th International Symposium on Knowledge and Systems Sciences KSS'04*, Ishikawa, 196-200, 2004.
 - Huynh, V.N., Nakamori, Y., Ho, T.B., Assessment Aggregation in the Evidential Reasoning Approach to MADM under Uncertainty: Orthogonal vs. Weighted Sum, *Ninth Asian Computing Science Conference ASIAN'04*, Chiang Mai, LNCS 3321, Springer, 109-127, 2004
 - Huynh, V.N., Murai, T., Ho, T.B., Nakamori, Y., Extending the Measure of Rough Dependency for Fuzzy Classification, *Joint 2nd International Conference on Soft Computing and Intelligent Systems and 5th International Symposium on Advanced Intelligent Systems SCIS & ISIS 2004*, Tsukuba, THP-8-3, 2004.

-
- Takabayashi, K., Yokoi, H., Ho, T.B., Nguyen, T.D., Kawasaki, S., Le, S.Q., Yokosuka, O., Imazeki, O., Satomura, Y., Data Mining of Viral Hepatitis with Temporal Abstraction, *MedInfo 2004*, San Fransisco, 2004.
 - Le, S.Q., Ho, T.B., Measuring the Similarity for Heterogeneous Data: An ordered Probability-Based Approach, *Discovery Science DS'04*, Padova, LNAI 3245, Springer, 129-141, 2004.
 - Phan, X.H., Horiguchi, S., Ho, T.B., Nguyen, L.M., Automatic Integrating Commercial Data on the Web Using Conditional Models, *ECML/PKDD 2004 Workshop on Statistical Approaches to Web Mining*, Pisa 20-24 September, 14-25., 2004.
 - Ho, T.B., Kawasaki, S., Le, S.Q., Tran, T.N., Takabayashi, K., Yokoi, H., Combining Temporal Abstraction and Data Mining to Study Hepatitis, *ECML/PKDD 2004 Workshop on Discovery Challenge*, Pisa 20-24 September, 155-167, 2004.
 - Zhang, H., Ho, T.B., M.S. Lin, An Evolutionary K-means Algorithms for Clustering Time Series Data, *International Conference on Machine Learning and Cybernetics ICMLC 2004*, IEEE Press, Shanghai, 1282-1287, 2004.
 - Nguyen, L.M, Shimazu, A., Horiguchi, S., Ho, T.B., Fukushi, M., Probabilistic Sentence Reduction Using Support Vector Machines, *The 20th International Conference on Computational Linguistics COLING 2004*, Geneva, 743-749, Morgan Kaufmann Publishers, 2004.
 - Phan, X.H., Horiguchi, S., Ho, T.B., PEWeb: Product Extraction from Web Based on Entropy Estimation, *Web Intelligence WI 2004*, Beijing, 590-593, IEEE Computer Society, 2004.
 - Ben Hassine, X. Defago, Ho, T.B., Agent-Based Approach to Dynamic Meeting Scheduling Problems, *The Third International Joint Conference on Autonomous Agents and Multi Agent Systems AAMAS'04*, New York, 1132-1139, 2004.
 - Le, S.Q., Ho, T.B., Conditional Probability Distribution-based Dissimilarity Measure for Categorical Data, *8th Pacific-Asia Conference on Knowledge Discovery and Data Mining PAKDD-04*, Sydney, LNAI 3056, Springer, 580-589, 2004.
 - Zhang, H., Ho, T.B., M.S. Lin, A Non-Parametric Wavelet Feature Extractor for Time-Series Classification, *8th Pacific-Asia Conference on Knowledge Discovery and Data Mining PAKDD-04*, Sydney, LNAI 3056, Springer, 595-603, 2004.
 - Huynh, V.N., Murai, T., Nakamori, Y., Ho, T.B., A New Approach to Belief Modeling, *Third International Symposium on Foundations of Information and Knowledge Systems FoIKS*, Vienna, LNCS 2942, Springer, 196-212, 2004.
 - Ben Hassine, A., Ito, T., Ho, T.B., Scheduling Meetings with Distributed Local Consistency Reinforcement, *16th International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems IEA/AIE-2004*, Ottawa (Best Paper Nominated), LNAI 3029, Springer, 679-688, 2004.

-
- Ben Hassine, A., Ghedira, K., Ho, T.B., New Distributed Filtering-Consistency Approach to General Networks, 16th Inter. Conf. on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems IEA/AIE-2004, Ottawa, LNAI 3029, Springer, 708-717, 2004.
 - Nguyen, T.D., Kawasaki, S., Ho, T.B., Discovery of Trends and States in Irregular Temporal Data Abstraction of Long-Term Changed Attributes in the Hepatitis Domain, 6th International Conference on Discovery Science DS-03, Sapporo, Lecture Notes in Artificial Intelligence 2843, Springer, 410-417, 2003.
 - Pham, T.H., Satou, K., Ho, T.B., Prediction and Analysis of beta-turn in Proteins by Support Vector Machine, *Genome Informatics*, Universal Academic Press, Vol. 14, 196-205, 2003.
 - Hassine, A.B., Ito, T., Ho, T.B., A New Distributed Approach to Solve Meeting Scheduling Problems, *IEEE/WIC International Conference on Intelligent Agent Technology*, IEEE Press, Halifax, 588-591, 2003.
 - Ho, T.B., Nguyen, T.D., Kawasaki, S., Le, S.Q., Nguyen, D.D., Yokoi, H., Takabayashi, K., Mining Hepatitis Data with Temporal Abstraction, *ACM International Conference on Knowledge Discovery and Data Mining KDD-03*, Washington DC, ACM Press, 369-377, 2003.
 - Kawasaki, S., Nguyen, T.D., Ho, T.B., Abstraction of Long-Term Changed Attributes in the Hepatitis Domain, *7th International Conference on Knowledge-based Intelligent Information and Intelligent Informatics KES-03*, Lecture Notes in Artificial Intelligence 2774, Springer, Oxford, 365-372, 2003.
 - Huynh, V.N., Ryoike, M., Nakamori, Y., Ho, T.B., Fuzziness and Uncertainty Within the Framework of Context Model, *Inter. Fuzzy Systems Association World Congress IFSA 2003*, Istanbul, June 29-July 2. Lecture Notes in Computer Science 2715, Springer, 219-228, 2003.
 - Nguyen, P.C., Akagi, M., Ho, T.B., Temporal Decomposition: A Promising Approach to VQ-based Speaker Identification, *IEEE International Conference on Acoustic, Speech, and Signal Processing ICASSP 2003*, IEEE Press, Hongkong, 6-10 May, 184-187, 2003.
 - Le, S.Q., Ho, T.B., A k-sets Clustering Algorithm for Categorical and Mixed Data, *SANKEN International Symposium on New Trends in Knowledge Processing*, Osaka, 10-11 March, 124-128, 2003.
 - Ho, T.B., From Artificial Intelligence and Knowledge Management to Knowledge Science, *First National Symposium on Research, Development, and Applications of Information and Communication Technology (invited talk)*, Hanoi, February 22-23, 15-22, 2003.
 - Ho, T.B., Nghiem, A.T., Ngo, C.S., Issues in Construction of a Vietnamese Machine Tractable Dictionary, *First National Symposium on Research, Development, and Applications of Information and Communication Technology*, Hanoi, February 22-23, 253-263, 2003.
 - Kawasaki, S., Saitou, A., Ho, T.B., Mining from Medical Data: Case-Studies in Meningitis and Stomach Cancer Domains, *6th International Conference on Knowledge-based Intelligent*

Information & Engineering Systems KES 2002, Crema, September 16-18, IOS Press, 547-551, 2002.

- Nguyen, M.L., Horiguchi, S., Ho, T.B., Le, A.C., , Nguyen, V.V., Nguyen, P.T., Sentence Reduction using Semantic Parsing with Rich Knowledge Base, *Third International Conference on Intelligent Technologies/Third Vietnam-Japan Symposium on Fuzzy Systems and Applications*, Hanoi 3-5 December, 376-379, 2002.
- Huynh, V.N., Nakamori, Y., Ho, T.B., Modelling Vague Beliefs using Fuzzy Context Model, *Third International Conference on Intelligent Technologies/Third Vietnam-Japan Symposium on Fuzzy Systems and Applications*, Hanoi 3-5 December, 61-66, 2002.
- Nguyen, T.D., Nguyen, D.D., S. Kawasaki, Ho, T.B., Extracting Knowledge from Hepatitis Data with Temporal Abstraction, *Workshop Active Mining, IEEE International Conference on Data Mining*, Maebashi, December, 91-96, 2002.
- Pham, N.A.H., Ho, T.B., A Distributed Algorithm for Mining Association Rules, *International Conf. on Parallel and Distributed Computing*, Kanazawa, September 3-6, 190-195, 2002.
- Ho, T.B., Nguyen, D.D., Kawasaki, S., Learning Minority Classes in Unbalanced Datasets, *Third International Conference on Parallel and Distributed Computing*, Kanazawa, September 3-6, 196-203, 2002.
- Ho, T.B., Nguyen, D.D., Kawasaki, S., Nguyen, T.D., Extracting Knowledge from Hepatitis Data with Temporal Abstraction, *ICML/PKDD 2002 Discovery Challenge, 6th European Conference on Principles of Data Mining and Knowledge Discovery PKDD 2000*, Hensinki, 19-23 August 2002.
- Ho, T.B., Nguyen, T.D., Nguyen, D.D., Visualization Support for a User-Centered KDD Process, *ACM International Conference on Knowledge Discovery and Data Mining KDD-02*, Edmonton, 23-26 July, 519-524, 2002.
- Ho, T.B., Saito, A., Kawasaki, S., Nguyen, D.D., Nguyen, T.D., Failure and Success Experience in Mining Stomach Cancer Data, *International Workshop Data Mining Lessons Learned*, Inter. Conf. Machine Learning 2002, Sydney, 8-12 July, 40-47, 2002.
- Kawasaki, S., Nguyen, D.D., Nguyen, T.D., Ho, T.B., Study of Hepatitis Data by Visual Data Mining System D2MS, *JSAI SIG-KBS-A201 Workshop Active Data Mining*, Pusan, 23-24 May, 43-48, 2002.
- Fujikawa, Y., Ho, T.B., Cluster-based Algorithms for Filling Missing Values, *6th Pacific-Asia Conf. Knowledge Discovery and Data Mining*, Taiwan, 6-9 May, *Lecture Notes in Artificial Intelligence 2336*, Springer, 549-554, 2002.
- Nguyen, T.D., Ho, T.B., Nguyen, D.D., Data and Knowledge Visualization in the Knowledge Discovery Process, *5th International Conference Recent Advances in Visual Information Systems*, Taiwan, 11-13 March, *Lecture Note in Computer Science 2314*, Springer, 311-321, 2002.

-
- Huynh, V.N, Nakamori, Y., Ho, T.B., Resconi, G., A Context Model for Constructing Membership Functions of Fuzzy Concepts Based on Modal Logic, *Inter. Symp. on Foundations of Information and Knowledge Systems*, Kiel, 19-22 February, *Lecture Note in Computer Science 2284*, Springer, 93-104, 2002.
 - Nghiem, A.T., Ho, C.K., Ho, T.B., Issues in Construction of Vietnamese Machine Tractable Dictionaries, *International Symposium on Knowledge Creation in Economics, Environmental and Societal Systems*, Kanazawa, Sep. 30-Oct. 1, 94-101, 2002.
 - Nakada, T., Ho, T.B., Kunifuji, S., Finding Potential Communities from Personal Homepages, *International Conference on Artificial and Computational Intelligence IASTED'02*, Tokyo, September 25-27, 191-196, 2002.
 - Kotb, Y., Ho, T.B., Katayama, T., Deriving Knowledge Base Assertions from XML Documents, *International Symposium on Knowledge Creation in Economics, Environmental and Societal Systems*, Kanazawa, Sep. 30-Oct. 1, 87-93, 2002.
 - Ho T.B., Knowledge Discovery and Data Mining Approach to Computational Biology, *Inter. Conference on Differential Equations, Approximations and Applications*, (invited lecture), Hanoi, December 2001.
 - Ho, T.B., Nguyen, T.T., Nguyen, P.C., Luong, C.M., Towards a Practical Framework for Vietnamese Natural Language Processing, *Vietnam-Japan Symposium on Fuzzy Systems and Applications*. Hanoi, December 7-9, 297-304, 2001.
 - Ho, T.B., Nguyen, D.D., Kawasaki, S., Mining Prediction Rules from Minority Classes, *14th International Conference on Applications of Prolog (INAP2001), International Workshop Rule-Based Data Mining RBDM 2001*, Tokyo, October 20-22, 254-264, 2001.
 - Ho, T.B., Nguyen, T.D., Visualization Support for User-Centered Model Selection in Knowledge Discovery in Databases, *Proceedings 13th IEEE International Conference on Tools with Artificial Intelligence ICTAI 2001*, Texas, USA, November 7-9, 228-235, 2001.
 - Ho, T.B., Kawasaki, S., Nguyen, N.B., Cluster-based Information Retrieval with Tolerance Rough Set Model, *Second International Symposium on Advanced Intelligent Systems*, Daejeon, Korea, 6-11, 2001.
 - Ho, T.B., Kawasaki, S., Nguyen, D.D., Extracting Predictive Knowledge from Meningitis Data by Integration of Rule Induction and Association Mining, *International Workshop Challenge in KDD*, May 2001, Shimane, Japan, 25-32. *Lecture Notes in Artificial Intelligence 2253*, Springer, 508-515, 2001.
 - Nguyen, T.D., Ho, T.B., Shimodaira, H., A Scalable Algorithm for Rule Post-Pruning of Large Decision Trees, 5th Pacific-Asia Conference on Knowledge Discovery and Data Mining PAKDD01, Hong kong, *Lecture Notes in Artificial Intelligence 2035*, Springer, 467-476, 2001.
 - Ho, T.B., Scalable High Performance Computing in Data Mining, *International Workshop on Parallel Computing, Data Mining and Optical Networks*, Kanazawa, March 7, 37-38, 2001.

-
- Ho, T.B., Nguyen, D.D., Integrating Rule Induction and Association Rule Mining, *International Workshop on Parallel Computing, Data Mining and Optical Networks*, Kanazawa, March 7, 39-50, 2001.
 - Ho, T.B., Nguyen, T.D., Shimodaira, H., Kimura, M., A Knowledge Discovery System with Focus on Model Selection and Visualization, *International Symposium on Knowledge and Systems Science: Challenges to Complexity KSS'2000*, September 25-27, Ishikawa, 97-104, 2000.
 - Nguyen, D.T., Ho, T.B., Shimodaira, H., A Visualization Tool for Interactive Learning of Large Decision Trees, *12th IEEE International Conference on Tools with Artificial Intelligence*, Vancouver, Canada, November 13-15, 228-235, 2000.
 - Nguyen, N.B., Ho, T.B., A Mixed Similarity Measure in Near-Linear Computational Complexity for Distance-based Methods, 4th European Conference on Principles of Data Mining and Knowledge Discovery PKDD 2000, Lyon, September 13-16, *Lecture Notes in Artificial Intelligence 1910*, Springer, 211-220, 2000.
 - Kawasaki, S., Nguyen, N.B., Ho, T.B., Hierarchical Document Clustering Based on Tolerance Rough Set Model, 4th European Conference on Principles of Data Mining and Knowledge Discovery PKDD 2000, Lyon, September 13-16, *Lecture Notes in Artificial Intelligence 1910*, Springer, 458-463, 2000.
 - Ho, T.B., Nguyen, N.B. and Kawasaki, S., Tolerance Rough Set Model Approach to Document Clustering, *Workshop Text Mining, International Conference Knowledge Discovery and Data Mining KDD-2000*, Boston, 89-90, 2000.
 - Ho, T.B., Knowledge Discovery and Data Mining: Problems, Challenges, and Some Research Results, invited paper, *44th Annual Conference of the Institute of Systems, Control and Information Engineers*, Kyoto, May 16-18, 523-526, 2000.
 - Nguyen, T.D., Ho, T.B., Shimodaira, H., Interactive Visualization in Mining Large Decision Trees, 4th Pacific-Asia Conference on Knowledge Discovery and Data Mining PAKDD'00, Kyoto. *Lecture Notes in Artificial Intelligence 1805*, Springer, 345-348, 2000.
 - Nguyen, N.B., Ho, T.B., A Fast Algorithm for Computing a Mixed Similarity Measure for Distance-based Methods, *1st International Conference on High Performance Scientific Computing HPSC'00*, Hanoi, 26, 2000.
 - Ho, T.B., Nguyen, T.D., Nguyen, N.B., An Agent-based Architecture in Knowledge Discovery and Data Mining, *1st Pacific-Asia on Intelligent Agent Technology: Systems, Methodologies, and Tools*, J. Liu and N. Zhong (eds.), World Scientific, 259-263, 1999.
 - Ho, T.B., Formal Concept Analysis and Rough Set Theory in Clustering, *International Conference on Mathematical Foundation in Informatics*, Hanoi, 1-9, 1999.
 - Ho, T.B., Nguyen, N.B., Yamaguchi, N., Nguyen, T.D., Ngo, C.S., Discovery of Diagnostic Knowledge from Meningitis and Cancer Data, *The International Symposium on Medical Informatics and Fuzzy Technology*, Hanoi, 149-157, 1999.

-
- Ho, T.B., Nguyen, N.B., Morita, T., Study of a Mixed Similarity Measure for Classification and Clustering, 3th Pacific-Asia Conference on Knowledge Discovery and Data Mining PAKDD'99, *Lecture Notes in Artificial Intelligence 1574*, Springer, 375-379, 1999.
 - Ho, T.B., Mining Unsupervised Data by Conceptual Clustering, *International Workshop on Data Mining and Knowledge Discovery in Data Science* (invited talk), Y. Baba et al. (Eds.), Institute of Statistical Mathematics, Tokyo, March 1999, 29-43, 1999.
 - Ho, T.B., Nguyen, D.T., Interactive Visualization for Predictive Modelling with Decision Tree Induction, 4th European Conference on Principles of Data Mining and Knowledge Discovery PKDD'98, Nantes, France, September 23-26, *Lecture Notes in Artificial Intelligence 1510*, Springer, 158-166, 1998.
 - Ho, T.B., Nguyen, T.D., Nguyen, N.B., Ito, T., Development of Some Methods and Tools for Discovering Conceptual Knowledge, International Conference Discovery Science 98, Fukuoka, Japan, December 14-16, 1998, *Lecture Notes in Artificial Intelligence*, Springer, 415-416, 1998.
 - Ho, T.B., Nguyen, T.D., Nguyen, N.B., Towards Automation in Knowledge Engineering via Knowledge Discovery in Databases, *5th ASIAN Science and Technology Week, Microelectronics and Information Technology Conference*, Hanoi, 12-14 October, 1998.
 - Ho, T.B., Nguyen, T.D., Shimodaira, H., Kimura, M., An Interactive-Graphic Environment for Extracting Knowledge from Data, *International Conference on Knowledge Extraction and Symbolic Data Analysis KESDA'98*, Luxembourg, April, Eurostat, 199-209, 1998.
 - Ho, T.B., Luong, C.M., Using Case-Based Reasoning in Interpreting Unsupervised Inductive Learning Results, *International Joint Conference on Artificial Intelligence IJCAI'97*, Nagoya, Morgan Kaufmann, 258-263, 1997.
 - Funakoshi, K., Ho, T.B., Information Retrieval by Rough Sets, *International Joint Conference on Artificial Intelligence IJCAI'97*, Nagoya, 37, 1997.
 - Honda, T., Motizuki, H., Ho, T.B., Okumura, M., Generating Decision Trees from an Unbalanced Data Set, *9th European Conference on Machine Learning*, Prague, April, 68-77, 1997.
 - Ho, T.B., Funakoshi, K., Information Retrieval Using Rough Sets, *Pacific Asian Conference on Expert Systems*, Singapore, February, 361-368, 1997.
 - Ho, T.B., Discovering of Decision Knowledge in Databases for Decision Support Systems, *Pacific Asia Symposium on Information and Telecommunication Technologies APSITT97*, Hanoi, 2.4.1-2.4.5. March 1997.
 - Ho, T.B., Nguyen, T.D., Evaluation of Attribute Selection Measures in Decision Tree Induction, *9th International Conference on Industrial & Engineering Applications of Artificial Intelligence & Expert Systems*, Fukuoka, June, Gordon and Breach Publisher, 413-418, 1996.

-
- Ho, T.B., Discovery of Regularities in Unsupervised Data, *Fourth International Workshop on Rough Sets, Fuzzy Sets, and Machine Discovery RSFD'96*, Tokyo University Press, November, 390-395, 1996
 - Ho, T.B., Nguyen, T.D., A Rough Set Based Measure for Attribute Selection in Decision Tree Induction, *Fourth International Workshop on Rough Sets, Fuzzy Sets, and Machine Discovery RSFD'96*, Tokyo University Press, November, 339-343, 1996.
 - Ho, T.B., Combining Views on Concepts in Unsupervised Concept Learning, 4th Pacific Rim International Conference on Artificial Intelligence PRICAI'96, Cairns, Australia, *Lecture Notes in Artificial Intelligence 1114*, Springer, 336-347, 1996.
 - Funakoshi, K., Ho, T.B., Information Retrieval by Rough Tolerance Relation, *International Workshop Rough Sets, Fuzzy Sets and Knowledge Discovery*, Tokyo University Press, November 6-8, 31-36, 1996.
 - Honda, T., Motizuki, H., Ho, T.B., Okumura, M., Text Segmentation Using Decision Tree Algorithms (in Japanese), *Association for Natural Language Processing*, Tokyo, 329-332, March 1996.
 - Ho, T.B., An Unsupervised Concept Learning Method Based on Rough Concept Analysis, *Fifth Conference of the International Federation of Classification Societies IFCS96*, Kobe, March, 73-76, 1996.
 - Ho, T.B., Nguyen, T.D., Kimura, M., Induction of Decision Trees Using Rough Sets, *Fifth Conference of the International Federation of Classification Societies IFCS96*, Kobe, March, 148-151, 1996.
 - Ho, T.B., Finding decision rules in data for knowledge-based decision support systems, *International Expert Workshop on Decision Support Systems for Sustainable Development*, Macau, February, 1-15, 1996.
 - Ho, T.B., Integrating Inductive Learning and Knowledge Acquisition in the Expert System Generator TESOR, *3th World Congress on Expert Systems*, Seoul, February, Cognizant Communication Corporation, 925-932, 1996.
 - Ho T.B., Ho, T.B., A Hybrid Model for Concept Formation, *5th European/Japanese Seminar on Information Modelling and Knowledge Bases VII*, Sapporo, May, 1.1-12, 1995.
 - Ho, T.B., Nguyen, T.D., Integrating Human Factors with An Concept Formation Process, *Proceedings 6th International Conference on Human-Computer Interaction*, Yokohama, July, 74, 1995. 1995, 74.
 - Ho, T.B., A Method for Organizing Knowledge Bases in the Hierarchical Form, *6th IEEE International Conference on Tools With Artificial Intelligence*, New Orleans, IEEE Computer Society Press, 816-819, November 1994.

-
- Ho, T.B., Maslovski E.K., An Expert System Approach to Control System Design, *International Workshop Knowledge Engineering and Application*, Beijing, International Academic Publishers, August, 61-66, 1994.
 - Ho T.B., A Practical Approach to the Construction of Hierarchical Objects Knowledge Bases, *3th Pacific Rim International Conference on Artificial Intelligence PRICAI'94*, Beijing, August, 311-316, 1994.
 - Ho T.B., An Integrated Approach to the Construction of Expert Systems, *Japan/Korea Joint Conference on Expert Systems*, Tokyo, March, 89-92, 1994.
 - Ho T.B., A Framework for Decision Support Systems. Some Reflections on the Use of Knowledge-Based Systems in Geology, *International Workshop on Computers in Geology GEOCOM'91*, Hanoi, November 1991.
 - Ho, T.B., Pham, N.K., Nguyen, T.D., An Approach to Building Self-Training Systems in Engineering, *International Conference on Computer Aided Engineering Education CAEE'91*, Prague, September 1991.
 - Pham, N.K., Ho, T.B., T.M., Ngo, C.S., Nguyen, T.T., Using Expert Systems in Technical Training, *International Conference on Computer Aided Engineering Education CAEE'91*, Prague, September 1991.
 - Ho, T.B., General-to-Specific and Specific-to-General Algorithms in the CABRO Concept Learning Method, *1st Pacific Rim International Conference on Artificial Intelligence PRICAI'90*, Nagoya, November, 619-624, 1990.
 - Ho, T.B., Doan, V.B., Parallel Algorithms for Finding Rules from Data, *Inter. Conf. Parallel Computing in Engineering and Engineering Education*, Paris, 1990, 335-340.
 - Ho, T.B., Doan, N.L., Expert Systems in Education. Advanced Techniques in the System OREST', *International Conference on Artificial Intelligence in Higher Education*, Prague, *Lecture Notes in Artificial Intelligence 451*, Springer, 14-25, 1990.
 - Ho, T.B., Finding Rules from Data, *ICOMIDC International Symposium on Mathematics of Computation*, Ho Chi Minh City, Vietnam, April 1988.
 - Ho, T.B., Diday, E., Gettler-Summa, M., Généralisation de Règles d'Expertise à Partir d'Observations (in French), *7th International Conference on Experts Systems and Their Applications*, Avignon, May, 1511-1533, 1987.
 - Bach, H.K., Pham, N.K., Hoang, K., Ho, T.B., Conversion and Combination of Image Representations, *8th International Conference on Pattern Recognition IJCPR'86*, Paris, October, 660-602, 1986.
 - Ho, T.B., Bach, H.K., Hoang, K., RECTO: An Expert System in Classification and Recognition, *8th International Conference on Pattern Recognition IJCPR'86*, Paris, October, 657-659, 1986.



-
- Ho, T.B., Quinqueton, J., Ralambondrainy, H., Using Expert System Techniques for Interpretation of Data Analysis Results, Proceedings of *COMPSTAT'86*, Rome, September, F. De Antoni, N. Laura, A. Rizzi (eds.), Physica-Verlag Heidelberg Wien, 308-311, 1986.
 - Bach, H.K., Hoang, K., Ho, T.B., Nguyen, M.H. Some Methods Improving Efficiency of Pattern Recognition Algorithms and their Application in Remote Sensing, *International Symposium of INTERCOSMOS on Space Research and Application*, Hanoi, 73-81, 1983.
 - Bach, H.K., Hoang, K., Ho, T.B., Luong, C.M., Nguyen, H.P., Giang, V.T., Ngo, Q.T., Nguyen, M.H., RECLASS: An Automatic Generation System of Pattern Recognition and Classification Procedures, *IFIP Working Conf. on the System Modeling and Optimization*, Hanoi, January, 1-13, 1983.