

Curriculum Vitae

Dr. Natthakan Iam-On

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Education and Training

2007 – 2011	PhD in Computer Science, at University of Wales (Aberystwyth), UK Thesis with the title “Link-Based Cluster Ensembles: Theory and Applications” has won the Thesis Award 2012 of National Research Council of Thailand.
2002 – 2004	MSc in Computer Science, at Chiang Mai University, Thailand
1997 – 2001	BSc in Computer Science (with Honour), at Chiang Mai University, Thailand

Employment

2016 – present	Assistant to the President, Mae Fah Luang University, Chiang Rai, Thailand Assistant Professor, School of Information Technology, Mae Fah Luang University
2015 – 2016	Assistant Professor, School of Information Technology, Mae Fah Luang University, Chiang Rai, Thailand
2011 – 2014	Lecturer, School of Information Technology, Mae Fah Luang University, Chiang Rai, Thailand
2007-2011	PhD studentship by the Ministry of Science and Technology, Royal Thai Government.
2005 – 2007	Lecturer, School of Information Technology, Mae Fah Luang University, Chiang Rai, Thailand

Teaching Experiences

Introduction to Information Technology
Computer Programming/Object-Oriented Programming
Algorithm Analysis and Design
Database Systems
Data Warehouse and Data Mining
Human and Information Technology

Research Experiences

Research Projects and Grants:

- Senior Researcher for research project on ‘Tactical CCTV Image Analysis & Interpretation for Security Awareness and Anti-Terrorism’ (Research Grant by Ministry of Defense, Oct 12 – Sep 14)

- Senior Researcher for research project on 'Decision Support System for Crime Investigation and Anti-Terrorism: Link Analysis and Evidence Ontology' (Research Grant by Thailand Toray Science Foundation, Apr 14 – Mar 16)
- Senior Researcher/Team Leader for research project on 'Analysis of Student Academic Behavior using Data Mining Techniques' (Research Grant by Mae Fah Luang University, Oct 13 – Feb 14)
- Senior Researcher/Team Leader for research project on 'Advanced Ensemble Approach to Improved Face Clustering & Identity Recognition' (Research Grant by Ministry of Science and Technology, Oct 14 – Sep 15)

Academic Supervision of Postgrad Research Projects:

- '*CKD Progression Prediction with Diabetes and Hypertension Patients*', at Mae Fah Luang University
- '*Predicting Student Drop-Out using Integrative Analysis of Academic Performance, Learning & Social Behavior*', at Mae Fah Luang University
- '*Graph Clustering Based Discretization*', at Mae Fah Luang University

Program Committee of Conferences:

- IEEE International Conference on System, Man and Cybernetics, 2012
- International Conference on Soft Computing and Intelligent Systems, 2012
- International Conference on System, Man and Cybernetics, 2013
- International Conference on Soft Computing and Data Mining, 2014-16
- Asian Conference on Intelligent Information & Database Systems, 2014
- International Conference on Natural Computation and International Conference on Fuzzy Systems and Knowledge Discovery, 2014-16
- Asian Conference on Information Systems, 2014
- International Conference on Practical Applications of Computational Biology and Bioinformatics, 2015-16
- International Conference on Information Systems Architecture and Technology, 2016
- IEEE International Conference on Bioinformatics and Bioengineering, 2016
- International Joint Conference on Computer Science and Software Engineering, 2016
- Asian Conference on Defence Technology, 2017

Editor/Reviewer of Journal Publications:

- Editor of *International Journal of Data Analysis Techniques & Strategies*, Inderscience
- Editor of *International Journal of Computational Medicine & Healthcare*, Inderscience
- Editor of *International Journal of Multivariate Data Analysis*, Inderscience
- Editor of *International Journal of Image Mining*, Inderscience
- Editor of *International Journal of Business Intelligence and Systems Engineering*, Inderscience
- Editor of *International Journal of Rough Sets and Data Analysis*, IGI Global
- Reviewer of *IEEE Transactions on Knowledge and Data Engineering*, *Machine Learning*, *Pattern Recognition*, *Journal of Machine Learning Research*, *Information Science*, *Expert Systems with Applications*, and *Neural Computing and Applications*.

List of Selected Publications

- N. Iam-On** and T. Boongoen, "Improved Student Dropout Prediction in Thai University using Ensemble of Mixed-Type Data Clusterings", *International Journal of Machine Learning and Cybernetics*, Springer (DOI: 10.1007/s13042-015-0341-x).
- N. Iam-On** and T. Boongoen, "Diversity-Driven Generation of Link-Based Cluster Ensemble and Application to Data Classification", *Expert Systems with Applications*, 42(21): 8259–8273, 2015.
- N. Iam-On** and T. Boongoen, "Comparative Study of Matrix Refinement Approaches for Ensemble Clustering", *Machine Learning*, 98(1-2): 269-300, 2015.
- N. Iam-On**, T. Boongoen and N. Kongkotchawan, "A New Link-Based Method to Ensemble Clustering and Cancer Microarray Data Analysis", *International Journal of Collaborative Intelligence*, 1(1): 45-67, 2014.
- N. Iam-On** and T. Boongoen, "Soft Subspace Clustering for Cancer Microarray Data Analysis: A Survey", A chapter in *Global Trends in Intelligent Computing Research and Development*, edited by B. K. Tripathy and D. P. Acharjya, IGI Global Publisher, pp. 131-145, 2014.
- N. Iam-On**, T. Boongoen, S. Garrett and C. Price, "New Cluster Ensemble Approach to Integrative Biological Data Analysis", *International Journal of Data Mining and Bioinformatics*, 8(2): 150-168, 2013.
- N. Iam-On** and T. Boongoen, "Pairwise Similarity for Cluster Ensemble Problem: Link-Based and Approximate Approaches", *Springer Transactions on Large-Scale Data and Knowledge-Centered Systems*, 9: 95-122, 2013.
- N. Iam-on**, T. Boongoen, S. Garrett and C. Price, "A link-based approach to cluster ensemble approach for categorical data clustering," *IEEE Transactions on Knowledge and Data Engineering*, 24(3): 413-425, 2012.
- N. Iam-On** and T. Boongoen, "A New Locally Weighted K-Means for Cancer-Aided Microarray Data Analysis", *Journal of Medical Systems*, 36(1-Suppl): 43-49, 2012.
- N. Iam-On**, T. Boongoen and S. Garrett, "A Link-based approach to the cluster ensemble problem", *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 33(12): 2396 - 2409, 2011.
- T. Boongoen, C. Shang, **N. Iam-On** and Q. Shen, "Extending Data Reliability Measure to a Filter Approach for Soft Subspace Clustering", *IEEE Transactions on Systems, Man and Cybernetics, Part B*, 41(6): 1705-1714, 2011.
- N. Iam-On**, T. Boongoen and S. Garrett, "LCE: A link-based cluster ensemble method for improved gene expression data analysis", *Bioinformatics*, 26(12): 1513-1519, 2010.
- N. Iam-On** and S. Garrett, "LinkCluE: A MATLAB Package for Link-Based Cluster Ensembles", *Journal of Statistical Software*, 36(9), 2010.
- M. Pattanodom, **N. Iam-On** and T. Boongoen, Clustering Data with the Presence of Missing Values by Ensemble Approach, In Proceedings of Asian Conference on Defence Technology, pp. 114-119, 2016.
- K. Sriwanna, T. Boongoen and **N. Iam-On**, An Enhanced Univariate Discretization Based on Cluster Ensembles, In Proceedings of 19th Asia Pacific Symposium on Intelligent and Evolutionary Systems, pp. 85-98, 2015.
- W. Khannara, **N. Iam-On** and T. Boongoen, Predicting Duration of CKD Progression in Patients with Hypertension and Diabetes, In Proceedings of 19th Asia Pacific Symposium on Intelligent and Evolutionary Systems, pp. 129-141, 2015.
- P. Meedech, **N. Iam-On** and T. Boongoen, Prediction of Student Dropout using Personal Profile and Data Mining Approach, In Proceedings of 19th Asia Pacific Symposium on Intelligent and Evolutionary Systems, pp. 143-155, 2015.
- N. Iam-On** and T. Boongoen, "Improving Face Classification with Multiple Clustering Induced Feature Reduction," In Proceedings of 49th IEEE International Conference on Security Technology, pp. 241-246, 2015.
- N. Iam-On** and T. Boongoen, "Using Cluster Ensemble to Improve Classification of Student Dropout in Thai University," In Proceedings of Joint 7th International Conference on Soft Computing and Intelligent Systems and 15th International Symposium on Advanced Intelligent Systems, pp. 452-457, 2014.