

# Academic Curriculum Vitae



**Ms. Nichnan Kittiphattanabawon**  
**Ph.D.**

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## Personal Information

**Contact Address** School of Informatics, Walailak University  
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Nakhonsithammarat 80160, Thailand  
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**Nationality** Thai

**Marital Status** Single

## Education

**2007-2012** Ph.D. in Technology (International Program)  
Sirindhorn International Institute of Technology, Thammasat University  
Dissertation Topic: *Document Relation Discovery Using Association Rule Mining: a Case Study on Thai News*

**1996-1999** M.Sc. in Computer Science, Prince of Songkla University  
Thesis: *The Application of Executive Information System for University Management*  
GPA: 3.90

**1989-1993** B.Sc. in Computer Science, Rangsit University  
*First Class Honor, Silver Medal Reward*  
GPA: 3.83

## Research Interests

- Text Mining / Data Mining
- Document Relation Discovery / Knowledge Discovery
- Predictive Analytics

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## Awards and Honors

- 2017** Honorable Mention Award for the title of "*Thai Question Answering Systems in Diabetes Using Logical Co-Operators*" by Ketsara Phetkrachang and Nichnan Kittiphattanabawon, awarded by The Twelfth 2017 International Conference on Knowledge, Information and Creativity Support Systems (KICSS2017), held at the Nagoya Institute of Technology, Nagoya, Japan, during 9 - 11 November 2017.
- 2017** Best Paper Award in Information Technology for the title of "Electronic Document Management System for Chumphon Sueksa School" by U-Tumporn Wongpet and Nichnan Kittiphattanabawon, awarded by the 8th Hatyai National and International Conference, 22 June, 2017.
- 2015** Gold Medal Reward for the title of "Automatic Semantic-based Multi-Document Summarization and Application to Public Hearing" by Thanaruk Theeramunkong, Nongnuch Ketui, Nattapong Tongtep, Nichnan Kittiphattanabawon and Kobkrit Viriyayudhakorn, awarded by the Jury in 43<sup>th</sup> International Exhibition of Inventions of Geneva, 17 April, 2015.
- 2009** Honorable Mention Award for the title of "*Relation Discovery from Thai News Articles Using Association Rule Mining*" by Nichnan Kittiphattanabawon and Thanaruk Theeramunkong, awarded by Pacific Asia Workshop on Intelligence and Security Informatics (PAISI'2009).
- 1993** First Class Honor, Silver Medal Reward in Computer Science from Rangsit University, Thailand.

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## Grants and Scholarships

- 2007-2010** Ph.D Scholarship in Sandwich Program, Strategic scholarships Fellowships Frontier Research Network 2006 from the Commission on Higher Education, Thailand.
- 1996** Master Degree Scholarship, Scholarships for Graduate Students, from National Science and Technology Development Agency (NSTDA), Thailand.

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## Teaching Experience

- 2017-Present** **Lecturer:** Information Technology Program, School of Informatics, Walailak University, Thailand (Undergraduate)
- *Business Analytics*
  - *Database Administration I*
  - *Database Administration II*
- Lecturer:** Management of Information Technology Program (graduate program), School of Informatics, Walailak University, Thailand (Graduate)
- *Predictive Analytics in Business*
- 2012 - 2016** **Lecturer:** Information Technology Program, School of Informatics, Walailak University, Thailand (Undergraduate)
- *Computer Organization*
  - *Database Administration I, II*
  - *Database System Management*
  - *Fundamental of Data Structure*
  - *Fundamentals of Information Technology I*
  - *Information Technology Professional Communication*
  - *Programming Language I*

**Lecturer:** Management of Information Technology Program (graduate program), School of Informatics, Walailak University, Thailand (Graduate)

- *Business Intelligence (Part: Data Mining)*
- *Information System Development*
- *Programming Concepts*

**2009**      **Teaching Assistant:** Information and Computer Technology, Information Technology Program, Sirindhorn International Institute of Technology (SIIT), Thammasat University, Thailand (Undergraduate)

- *Information Technology I Laboratory*

**2003 - 2006**      **Lecturer:** Management of Information System (MIS) Program and Computer Science (CS) Program, School of Informatics, Walailak University, Thailand (Undergraduate)

- *Computer Organization and Architecture*
- *Data Analysis and Database Design*
- *Database System Management*
- *Fundamentals of Computer Science*
- *Fundamentals of Computer Technology*
- *Introduction to Artificial Intelligence*
- *Management of Information Technology*

**2002 - 2003**      **Lecturer (Special Instructor):** Business Computer, Business Administration, Southern College of Technology, Thailand (Undergraduate)

- *Management Information System*

**1997 - 1998**      **Lecturer (Special Instructor):** Business Computer, Business Administration, Rajamangala University of Technology, Songkla, Thailand (Undergraduate)

- *Management Information System*

**1996 - 1997**      **Lecturer (Special Instructor):** Siam Computer, World Computer and Genius Computer Institute, Thailand

- *Pascal and Turbo C Programming*

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## Research Experience

<b>2009-2010</b>	<b>Role</b>	Researcher.
	<b>Research Title</b>	Automatic Tagger for Named Entity in Thai News Corpus.
	<b>Principal Investigator</b>	Dr. Thanaruk Theeramunkong (Associate Professor).
	<b>Research Organization</b>	Sirindhorn International Institute of Technology (SIIT), Thammasat University, Thailand.
	<b>Research Funding</b>	The National Electronics and Computer Technology Center (NECTEC).
<b>2008-2009</b>	<b>Role</b>	Researcher and Project Co-ordinator.
	<b>Research Title</b>	Automatic Relationship Discovery in News Articles.
	<b>Principal Investigator</b>	Dr. Thanaruk Theeramunkong (Associate Professor).
	<b>Research Organization</b>	Sirindhorn International Institute of Technology (SIIT), Thammasat University, Thailand.
	<b>Research Funding</b>	The Thailand Research Fund (TRF).

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## Academic Services

2005-2007 **Co-investigator and Database Administrator:** Walailak Library Automation System  
“Walai AutoLIB”, Walailak University, Thailand.

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## Work Experience

1998-2003 **Director:** Electronic Data Processing Department, The Center for Computer Services,  
Walailak University, Thailand.

1997 **Programmer** (Part Time): B.T.Sale and Services, Thailand.

1994 - 1996 **Director:** Computer Division, Central Department Store, Hadyai, Thailand .

1993 - 1994 **Assistant Director:** Management Information System Division, Central Department Store,  
Chidlom, Thailand.

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## Seminar and Training

2016 Workshop in “*Train the Trainers: Big Data Using Spark*”, by IMC Institute, June 27-July 1,  
2016 at IMC Institute, Skulthai Surawong Tower, Bangkok, Thailand.

2015 Workshop in “*Ontology*”, by Nectec, March 26-27, 2015 at Walailak University, Thailand.

2014 Workshop in “*Practical Data Mining with RapidMiner Studio 6 : A Basic and Intermediate*”, by  
Data Cube, December 8-10, 2014 at Walailak University, Thailand.

2009 Training in “*Question & Answering (Q&A)*”, Intensive Summer school, October 18-19, 2009  
at Kasetsart University, Thailand.

2009 Training in “*Science Direct & Scopus*”, June 17, 2009 at Sirindhorn International Institute of  
Technology (SIIT), Thammasat University, Thailand.

2008 Training in Asian Applied Natural Language Processing for Linguistics Diversity and  
Language Resource Development (ADD2008), February 25 - March 1, 2008 at Sirindhorn  
International Institute of Technology (SIIT), Thammasat University, Thailand.

2007 Training in the Seventh International Symposium on Natural Language Processing 2007  
(SNLP2007) Tutorials, 11th-12th December 2007 at Kasetsart University, Bangkok, Thailand.

2007 Participating in “*Idea-Marathon System (IMS)*”, by Takeo Iguchi, Member of the Board of  
Directors on Appointment, Public Relation, on Tuesday 25th December 2007 at Sirindhorn  
International Institute of Technology (SIIT), Thammasat University, Thailand.

2002 Training in “*Oracle8i Database Administration*”, 5 days.

2000 Training in “*Database Programming with Visual Basic and SQL Server*”, 3 days.

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## Academic Activities

- 2016**      **Section Chair:** The 14th International Joint Conference on Computer Science and Software Engineering (JCSSE2017), July 12-14, 2017 , Twin Lotus Hotel, Nakhon Si Thammarat, Thailand.
- 2013**      **Publicity Co-Chair and Reviewer:** The Tenth International Symposium on Natural Language Processing 2013 (SNLP2013) , October 28-30, 2013, Phuket, Thailand
- 2013**      **Secretariat:** The Second Asian Conference on Information Systems (ACIS2013) , October 31-November 2, 2013 , Phuket, Thailand
- 2013**      **Academic Committee and Reviewer:** The Fifth National Conference on Information Technology IT Competency towards AEC Competency (NCIT2013), February 26-27, 2013 , Phetchaburi, Thailand
- 2012**      **Section Chair:** The First Asian Conference on Information System: Special Session on Service Sciences (ACIS-SS2012) , December 6-8, 2012 , Siem Reap, Cambodia
- 2010**      **Secretariat:** The Fifth International Conference on Knowledge, Information and Creativity Support Systems (KICSS2010) , November 25-27, 2010 , Chiang Mai, Thailand
- 2010**      **Registration Co-ordinator:** National Software Contest 2010 (NSC2010), 16th January 2010, Bangkok, Thailand
- 2009**      **Secretariat:** The 13th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD2009), April 27-30, 2009, Bangkok, Thailand
- 2009**      **Registration Co-ordinator:** National Software Contest 2009 (NSC2009), 9th January 2009, Bangkok, Thailand
- 2008**      **Registration Co-ordinator:** National Software Contest 2008 (NSC2008), 14th January 2008, Bangkok, Thailand

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## Technical Skills

<b>Data Mining</b>	WEKA, RapidMiner
<b>Programming</b>	PHP, C
<b>Database</b>	Oracle, MYSQL, MS-Access
<b>Others</b>	Ubuntu, CTTEX, LaTeX, OpenOffice

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## Publications

- 2017**      **International Conferences**
- Ketsara Phetkrachang and Nichnan Kittiphattanabawon (2017). Thai Question Answering Systems in Diabetes Using Logical Co-Operators. *In the Twelfth 2017 International Conference on Knowledge, Information and Creativity Support Systems (KICSS2017)*, the Nagoya Institute of Technology, Nagoya, Japan, 9-11 November 2017.

### **National Conferences**

- Panawat Chobtumkit, Chanon Khuankla and Nichnan Kittiphattanabawon (2017). Category Recommendation System in Advertising : A Case Study of PantipMarket. In *the 8th Hatyai National and International Conference*, Hatyai University, Hatyai, Songkhla, Thailand, 22 June, 2017.
- Suwisa Kongwatmai, Soodfun Suwanmanee and Nichnan Kittiphattanabawon (2017). Development of a Question Answering System for Self Care in Diabetic Patients. In *the 8th Hatyai National and International Conference*, Hatyai University, Hatyai, Songkhla, Thailand, 22 June, 2017.
- Auttapon Promthong and Nichnan Kittiphattanabawon (2017). Rubber Trading Management System : A Case Study of Khunmai Rubber. In *the 8th Hatyai National and International Conference*, Hatyai University, Hatyai, Songkhla, Thailand, 22 June, 2017.
- Untika Jankumnerd and Nichnan Kittiphattanabawon (2017). Rubber Trading Management System : A Case Study of Khunmai Rubber. In *the 7th Southern Technology Research National Conference*, Southern College of Technology, Tungsong, Nakhonsithammarat, Thailand, 24 February, 2017.
- U-Tumporn Wongpet and Nichnan Kittiphattanabawon (2017). Electronic Document Management System For Chumphon Sueksa School. In *the 8th Hatyai National and International Conference*, Hatyai University, Hatyai, Songkhla, Thailand, 22 June, 2017.
- Agapong Rodpai and Nichnan Kittiphattanabawon (2017). Knowledge Management System For Gripen Simulator Maintenance, Wing 7. In *the 8th Hatyai National and International Conference*, Hatyai University, Hatyai, Songkhla, Thailand, 22 June, 2017.

2016

### **International Conferences**

- Ketsara Phetkrachang and Nichnan Kittiphattanabawon (2016). Effects of AND-OR Selections and Term Weights in Diabetes Question Answering. In *The Eleventh International Symposium on Natural Language Processing (SNLP-2016)*. Classic Kameo Hotel & Serviced Apartments, Phranakhon Si Ayutthaya, Thailand, 9-12 February, 2016.

### **National Conferences**

- Tanchanok Chaksang, Sumret Jirapaophan and Nichnan Kittiphattanabawon (2016). Applications of Association Rule Mining for Sales Promotion. In the 8th Walailak Research Conference, Thasala, Nakhonsithammarat, Thailand, 7-8 September, 2016.

2015

### **International Conferences**

- Ketsara Petkrachang and Nichnan Kittiphattanabawon (2015). Ontology-Based Question Answering Systems for Diabetes Care (2015). In *the 7<sup>th</sup> Walailak Research Conference*, Thasala, Nakhonsithammarat, Thailand, 2-3 July, 2015. (abstract).

### **Posters**

- Watanyu Chuprajit, Metawee Nuansaet and Nichnan Kittiphattanabawon (2015). The Development of Online Meeting Room Booking System: Case Study of Walailak University. in *the 7<sup>th</sup> Walailak Research Conference*, Thasala, Nakhonsithammarat, Thailand, 2-3 July, 2015.

2014

### **International Journals**

- Nichnan Kittiphattanabawon, Thanaruk Theeramunkong, and Ekawit Nantajeewarawat (2014). Region-based Association Measures for Ranking Mined News Relations. *Intelligent Data Analysis*, Volume 18 (2), 2014.

### **Posters**

- Piyanut Kitcharoun, Jantraporn Khunaksorn and Nichnan Kittiphattanabawon (2014). Expert System for Choosing Digital Camera. in *the 6<sup>th</sup> Walailak Research Conference*, Nakhonsithammarat, Thailand, 3-4 July, 2014.
- Chokdee Mankong, Sunisa Kaewbumrung and Nichnan Kittiphattanabawon (2014). Decision Support System in Selecting Life Insurance: a Case Study of American International Assurance Co., Ltd. (AIA). in *the 6<sup>th</sup> Walailak Research Conference*, Nakhonsithammarat, Thailand, 3-4 July, 2014.

2013

### **Patents**

- Thanaruk Theeramunkong, Nongnuch Ketui, Nattapong Tongtep, Nichnan Kittiphattanabawon and Thawatchai Suwannapong, Automatic Multi-Document Summarization Using Graph-based Techniques, *Department of Intellectual Property (DIP)*, August 28, 2013.

2012

### **International Conferences**

- Nichnan Kittiphattanabawon, Thanaruk Theeramunkong and Ekawit Nantajeewarawat (2012). Region-based Ranking in Association Analysis for News Relation Discovery. In *KICSS'2012, Proceedings of the 7<sup>th</sup> International Conference on Knowledge, Information and Creativity Support Systems*, Melbourne, Australia, 8-9 November, 2012.

2011

### **International Journals**

- Nichnan Kittiphattanabawon, Thanaruk Theeramunkong, and Ekawit Nantajeewarawat (2011). News Relation Discovery Based on Association Rule Mining with Combining Factors. *IEICE Transactions on Information and Systems*, Volume E94.D, Issue 3, pp. 404-415, 2011.

2010

### **Lecture Notes**

- Nichnan Kittiphattanabawon, Thanaruk Theeramunkong and Ekawit Nantajeewarawat (2010). Exploration of Document Relation Quality with Consideration of Term Representation Basis, Term Weighting and Association Measure. In *PAISI' 2010, Proceedings of the Pacific Asia Workshop on intelligence and Security informatics*, Hyderabad, India, Vol. 6122 of Lecture Notes In Computer Science, pp. 126–139, Springer, 21-24 June, 2010.

### **International Conferences**

- Theeramunkong, T., Boriboon, M., Haruechaiyasak, C., Kittiphattanabawon, N., Kosawat, K., Onsuwan, C., Siritwat, I., Suwanapong, T., and Tongtep, N. (2010). THAI- NEST: A Framework for Thai Named Entity Tagging Specification and Tools. In *CILC' 2010, Proceedings of the 2nd International Conference on Corpus Linguistics*, University of A Coruña, Spain, May 13-15, 2010.

2009

### **Lecture Notes**

- Nichnan Kittiphattanabawon and Thanaruk Theeramunkong, Relation Discovery from Thai News Articles Using Association Rule Mining (2009). In *PAISI' 2009, Proceedings of the Pacific Asia Workshop on intelligence and Security informatics*, Bangkok, Thailand, Vol. 5477 of Lecture Notes In Computer Science, pp.118-129, Springer, 27-30 April, 2009. (*Honorable Mention Award*).

### **International Conferences**

- Thanaruk Theeramunkong and Nichnan Kittiphattanabawon, Mining Relations from Thai News Articles (2009). In *the Fourth International Symposium in Scientific and Technology*, Kansai University, Osaka, Japan, August 23-25, 2009.