

Curriculum Vitae for *Pichaya Tandayya*

7 April 2020

- 1 Family Name:** Tandayya
- 2 First Name:** Pichaya
- 3 Date of Birth:** 10 September 1968
- 4 Nationality:** Thai
- 5 Position:** Government Official / Assistant Professor

6 Education / Professional Studies:

<i>Date From/To</i>	<i>Degree</i>	<i>Field</i>	<i>Institution</i>
1985-1989	B.Eng.	Electrical Engineering	Prince of Songkhla University, Thailand
1996-1997	M.Phil.	Computer Science	University of Manchester, United Kingdom
1997-2000	Ph.D.	Computer Science	University of Manchester, United Kingdom

7 Language Skills:

<u>Language</u>	(in order of competency)
Thai	mother tongue
English	expert
German	basic

8 Membership of Professional Bodies: [IEEE](#), ACM, CSEA, [SISO](#), [ECTI](#)

9 Other Skills:

Research interests in

Parallel and Distributed Computing,
Parallel and Distributed Simulation Systems,
Braille Computer System and Assistive Technology

10 Recent taught courses (2000-2020):

Undergraduate Level:

Advanced Computer Architecture and Organization,
Ethical, Legal and Social Issues in Computer Professions,
Computer Graphics and Simulation Systems,
Data Structure and Computer Programming Techniques,
E-Commerce,
Introduction to Computer Programming,
Introduction to Engineering

Multi-core Programming and Architecture

Postgraduate Level:

Research and Development Methodologies,

Cloud Computing Principles and Paradigms,

Parallel and Distributed Computing,

Introduction to High Level Architecture and Creating Computer Simulation,

Parallel Computing,

Distributed Computing,

Parallel and Distributed Computing,

Parallel and Distributed Simulation Systems

11 Present Position within the organisation: Assistant Professor/Lecturer

12 Years with the organisation: 30 (since 1990)

13 Professional Experience Record:

<i>Date</i>	<i>Location</i>	<i>Organization</i>	<i>Position</i>	<i>Responsibilities</i>
May 1990 – now	Thailand	Prince of Songkla U.	Lecturer	Give lectures
Oct. 2001 – Sep. 2003	Thailand	Prince of Songkla U.	Deputy Head of Dept.	Academic affairs
Oct. 2003 – Nov. 2004, Jan. 2010 -Dec. 2010	Thailand	Prince of Songkla U.	Deputy Head of Dept.	Research & PG program management
Dec. 2004 – Nov. 2008	Thailand	Prince of Songkla U.	Head of Department	Administration and Management
2001 - 2004	Thailand	Prince of Songkla U.	Conference Secretary	Organising conferences
2004 - 2012	Thailand	Thai National Grid	Committee	PSU representative and Founding member
August 2007 – 2012	Thailand	Prince of Songkla U.	Head	PSU Grid Center
2009-2010	Thailand	Prince of Songkla U.	Head of iSys Research Group	Administration
Jan. 2010 – Dec. 2010	Thailand	Prince of Songkla U.	Head of MEng and PhD Programs.	Research & PG program management
Jan. 2010 – Dec. 2010	Thailand	Prince of Songkla U.	Deputy Head of Dept.	Research & PG studies

14 List of organised conferences

- Information and Computer Engineering Postgraduate Workshop 2002 - 2004 (ICEP 2002-2004)
- International Symposium on Communications and Information Technology (ISCIT 2003)
- National Computer Science and Engineering Conference (NCSEC 2004)
- Asia Modelling Symposium (AMS 2007)
- Annual Symposium on Computational Science and Engineering (ANSCSE 11), 2007
- International Technical Conference on Circuits/Systems, Computers and Communications (ITC-CSCC 2014)
- 12th International Joint Conference on Computer Science and Software Engineering (JCSSE 2015)

- The International Symposium on Intelligent Signal Processing and Communication Systems (ISPACS 2016)
- 14th International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology (ECTI-CON 2017)

15 List of conferences and Journals that I worked as a technical program committee

1. International Symposium on Communications and Information Technology (ISCIT 2001-Now)
2. National Computer Science and Engineering Conference (NCSEC 2001-Now)
3. Electrical Engineering Conference (EECON 2002-Now)
4. World Multiconference on Systemics Cybernetics and Informatics (SCI 2003-2005)
5. SCI Journal: Journal of Systemics, Cybernetics and Informatics (SCI 2003-2005)
6. European Simulation Interoperability Workshop (Euro-SIW 2004-2005)
7. Annual Symposium on Computational Science and Engineering (ANSCSE 2006-Now)
8. PSU-Engineering Conference (PEC 2002-Now)
9. International Convention on Rehabilitation Engineering & Assistive Technology (i-CREAtE 2007-Now)
10. International Conference on Electrical Engineering/Electronics, Computer, Telecommunications, and Information Technology (ECTI-CON)
11. International Joint Conference on Computer Science and Software Engineering (JCSSE)
12. Songklanakarin Journal of Science and Technology
13. IEEE/ACM International Symposium on Distributed Simulation and Real-time Applications (DS-RT 2008-2009)
14. Multimedia Tools and Applications, Springer (Journal), 2013-now
15. IEEE Access (Journal), 2018-now

16 Awards

Research

- *2nd Prize and Professional Vote at Engineering Innovation*, Braille Translation, October 2004, Bitec, Bangna.
- *Invention Award from Prince of Songkla University*, Braille Computer System, September 2008.
- *Invention Award from Faculty of Engineering, Prince of Songkla University*, Braille Computer System, July 2008.

Students' works under supervision

National Software Contest

- *1st Prize, 6th National Software Contest (NSC 2004)*, Sansanee Bunsanong, Thai Braille to ASCII Translator, February 2004.
- *Special Prize from Thailand Association of the Blind*, Software for the Blind, *6th National Software Contest (NSC 2004)*, Sansanee Bunsanong, Thai Braille to ASCII Translator, February 2004.
- *Special Prize from Thailand Association of the Blind*, Software for the Blind, *6th National Software Contest (NSC 2004)*, Tirawot Suriyapaiboonwattana, Somchai Petchkrieng and Kongsakol Chomkong, Thai Braille Terminal Program on Linux, February 2004.

- *1st Prize, 7th National Software Contest (NSC 2005)*, Somchai Petkleang and Techit Panwasin, ASCII to Thai Braille Translator, February 2005.
- *Special Prize from Thailand Association of the Blind*, Software for the Blind, *7th National Software Contest (NSC 2005)*, Somchai Petkleang and Techit Panwasin, ASCII to Thai Braille Translator, February 2005.
- *1st Prize, 9th National Software Contest (NSC 2007)*, Aphisada Inthasara, Ladawan Mipansaen and Darika Marneechay, Braille-Music XML Translation, February 2007.
- *Special Prize from Thailand Association of the Blind*, Software for the Blind, *9th National Software Contest (NSC 2007)*, Aphisada Inthasara, Ladawan Mipansaen and Darika Marneechay, Braille-Music XML Translation, February 2007.
- *Consolation Prize, 9th National Software Contest (NSC 2007)*, Thanathip Limna, Chomphunut Sae-tang and Pongkan Kansong, Braille Operation Software, February 2007.
- *Consolation Prize, 10th National Software Contest (NSC 2008)*, Pornnalat Sornprasit and Jarunee Gampalawalee, Organizer and Internet Reader for the Visually Impaired, February 2008.
- *Consolation Prize, National Software Contest (NSC 2010)*, Thanapruet Nantawuttikul, Ratchadaporn Tongmak and Sureeporn Angsupanich, February 2010.
- *2nd Prize, 15th National Software Contest (NSC 2013)*, Wongpiti Whangsanti Yoschanin Sasiwat, and Attasuntorn Traisuwan, Hawkeye, February 2013.
- *3rd Prize, 16th National Software Contest (NSC 2014)*, Wongpiti Whangsanti Yoschanin Sasiwat, and Attasuntorn Traisuwan, Hawkeye Community, March 2014.
- *Consolation Prize, 17th National Software Contest (NSC 2015)*, Attasuntorn Traisuwan, Kraken Workflow, March 2015.
- *2nd Prize, 17th National Software Contest (NSC 2017)*, Phutthewan Yangyuenyong, Aran Khunaree, and Chalemchon Saekoo, A Distributed Simulation System for Training and Testing MOBA Game Programming, March 2017.
- *3rd Prize, Innovation of Thailand*, Sansanee Bunsanong, Thai Braille to ASCII Translator, October 2004, Impact Muangtong Thani.
- *3rd Prize, Embedded Systems on New Industrial Design Camp and Contest 2007*, Vorapol Thinnagonsutibut, Thanatip Limna, Suppachai Madue, Witchuda Kiatcharoensak and Nattawut Suwannarat, AmBraille: Braille Computer Notebook.
- *3rd Prize and Peer's Choice Award in Assistive & Rehabilitative Technology Student Design Challenge in 2nd International Convention on Rehabilitation Engineering & Assistive Technology (i-CREATe 2008)*, Vorapol Thinnagonsutibut, Thanatip Limna, Suppachai Madue and Witchuda Kiatcharoensak, Braille Computer Notebook, May 2008 at Imperial Queen's Park, Bangkok.

Thesis

- *Very good thesis of Faculty of Engineering*, Prince of Songkla University, 2009, Vorapol Thinnagonsutibut, On-the-fly Thai Braille and ASCII Translation.

Best Paper Awards

- *Best Paper Award in Application in Computer Engineering in 8th PSU-Engineering Conference (PEC-8)*, Saowalak Teeratananon and Pichaya Tandayya, Design and Analysis of Different Thai Character Arrangements for Keyboard on Screen (in Thai language), April 2009.
- *Best Paper Award in Technological Science in Payap University Research Symposium 2012*, Totsawat Chunhawitayatera and Pichaya Tandayya, Enhancing Thai Braille translation with n-gram for decision making in the cases of compound consonants, vowels and characters (in Thai language), Chiangmai, Thailand, 17th February 2012.

Others

- *Khondeesangkomthai of the Year 2009*, Sentangthai Magazine.
- *Model Lecturer in Research of the Year 2010*, Faculty of Engineering, Prince of Songkla University
- *Model Lecturer in Art and Culture Nourishment of the Year 2011*, Faculty of Engineering, Prince of Songkla University

17 Publications

Theses

1. Pichaya Tandayya, [Further Developments in Civil Distributed Interactive Simulation Systems](#), Ph.D. Thesis, University of Manchester, September 2000.
2. Pichaya Tandayya, *Application of DIS Communication Protocols in Spacecraft Simulation Systems*, M.Phil. Thesis, University of Manchester, May 1997.

Technical Reports

1. Pichaya Tandayya, Amornrat Phongdata, Unitsa Sangket, and Pitipol Meemak, Technical Report for *Building the Infrastructure of Biogrid with myGrid Technology*, 2008
2. Pichaya Tandayya, Wannarat Suntiamorntut, Suntorn Witosurapot, Chatchai Jantaraprim, and Wiraman Niyompol, Technical Report of *the Development of a Braille Computer System for the Visually Impaired*, 2007.
3. Pichaya Tandayya, Suntorn Witosurapot, Worraprot Chukumnird, Chatchai Jantaraprim, and Wiraman Niyompol, Technical Report of *the Development of a Braille Computer System for the Visually Impaired*, 2004.
4. Pichaya Tandayya, Technical Report of *the Development of a Distributed Interactive Simulation System*, 2002.
5. Pichaya Tandayya, Technical report of the *Development of a Call Processing Software at a Group Processor Module Level for a TDSS-1R Digital Telephone Exchange*, 1995.
6. Weerapan Musigasarn, Sinchai Kamolphiwong, Suntorn Witosurapot, Pichaya Tandayya, Thanate Kaorapapong, Montri Karnchanadecha, and Somchai Limsirorat, Technical report of the research project *Development of a Thailand's Digital Switching System for Rural Applications (TDSS-1R)* submitted to National Electronics and Computer Technology (NECTEC), National Science and Technology Development Agency (NSTDA), Advanced Telecommunication Research Laboratory (ATRL), November 1992.
7. Suntorn Witosurapot and Pichaya Tandayya, Technical report of the research project *ISDN Telecommunication Switching System*, Advanced Telecommunication Research Laboratory (ATRL), 1992.

Proceedings: Academic papers about Ethics

1. Pichaya Tandayya, Dimensions of Professional Ethics, In Proceedings of *the 12th International and National Conference on Engineering Education (INceed12)*, Khaoyai, Nakornnayok, Thailand, 15th -17th May 2014.
2. Pichaya Tandayya, Concepts and Guidelines for Ethical, Legal and Social Issues in Computer Profession, In Proceedings of *The 11th International and National Conference on Engineering Education (INceed11)*, Patong, Phuket, 9th -11th May 2013.
3. Pichaya Tandayya, [Social and Professional Issues According to the IEEE Curricula](#) (in Thai language), In Proceedings of *the 4th National Conference on Engineering Education 4 (Nceed4)*, pages 11-18, Nakornratchasima, Thailand, 4th -6th May 2006.

4. Pichaya Tandayya, [Teaching Experience in Ethical, Legal and Social Issues in Computer Profession](#) (in Thai language), In Proceedings of the 3rd National Conference on Engineering Education (Nceed3), Jomtien, Chonburi, Thailand, 5th -6th May 2005.

General Articles: Best Practice

1. Pichaya Tandayya, Best Practices in Quality of Graduates: Prized Student Works (in Thai Language), *Quality Forum of Prince of Songkla University*, pages 9-13, Quality Assurance Office, Prince of Songkla University, July 2007, ISBN 978-974-11-4866-0.

Journal Articles

2020 (1)

1. Kasikrit Damkliang and Pichaya Tandayya, A Middleware for Running and Debugging Scientific Workflows Utilizing RESTful Web Services, *International Journal of Simulation and Process Modelling*, Inderscience Publishers, Vol. x, No. x, pages xxx-xxx, 20xx, ISSN print 17402123, on-line 17402131. (To be published)

2017 (4)

2. Kritwara Rattanaopas and Pichaya Tandayya, Adaptive Workload Prediction for Cloud-Based Server Infrastructures, *Journal of Telecommunication, Electronic and Computer Engineering*, Vol. 9, No. 2-4, pages 129-134, 2017, e-ISSN: 2289-8131.
3. Kasikrit Damkliang, Pichaya Tandayya, Unitsa Sangket and Ekawat Pasomsab, Similarity Score Estimation and Gaps Trimming of Multiple Sequence Alignment for Phylogenetic Tree Analysis, *ECTI Transactions on Computer and Information Technology (ECTI-CIT)*, Vol. 11, No. 2, pages 129-142, November, 2017.
4. Unitsa Sangket, Surakameth Mahasirimongkol, Pichaya Tandayya, Surasak Sangkhathat, Wasun Chantratita, Qi Liu and Yutaka Yasui, Parallelization of Logic Regression Analysis on SNP-SNP Interactions of a Crohn's Disease Dataset Model, *Journal Sains Malaysiana*, Vol. 46, No. 9, pages 1449-1455, 2017, <http://dx.doi.org/10.17576/jsm-2017-4609-13>.
5. Thanathip Limna and Pichaya Tandayya, Workload Scheduling for Nokkhum Video Surveillance as a Service Running on Infrastructure as a Service, *Multimedia Tools and Applications*, Springer, DOI: 10.1007/s11042-016-4225-1, Volume 77, Issue 1, pages 1363-1389; First online: 11 January 2017, ISSN 1573-7721, Print publication date: (January 2018), ISSN 1380-7501 (Journal Impact Factor: 1.530/2016).

2016 (1)

6. Kasikrit Damkliang, Pichaya Tandayya, Unitsa Sangket, and Ekawat Pasomsub, Integrated Automatic Workflow for Phylogenetic Tree Analysis Using Public Access and Local Web Services, *Journal of Integrative Bioinformatics*, 13(1):287, 2016. DOI:10.2390/biecoll-jib-2016-287. First online: 28 November 2016, ISSN 1613-4516. Online Journal: http://journal.imbio.de/index.php?paper_id=287.

2014 (1)

7. Thanathip Limna and Pichaya Tandayya, A Flexible and Scalable Component-based System Architecture for Video Surveillance as a Service, Running on Infrastructure as a Service, *Multimedia Tools and Applications*, Springer, Volume 75, Issue 4, Pages 1765-1791, Online publication date: 31 December 2014, ISSN 1573-7721, Print publication date: February 2016, ISSN 1380-7501 (Journal Impact Factor: 1.331/2015).

2011 (1)

8. Pichaya Tandayya, Wannarat Suntiamorntut, Sunton Witosurapot, Chatchai Jantaraprim, Worraprot Chukumnird, Vorapol Thinnagnosutibut, Thanathip Limna, Suppachai Madue, and Wirapol Niyomman, Computer Notebook with Thai and English Processing for the Visually Impaired, Selected Papers from the Japanese Conference on the Advancement of Assistive and Rehabilitation Technology, 23rd JCAART 2008, Niigata, *Assistive Technology Research Series*, IOS Press, Netherlands, Volume 28, May 2011, pages 166-172, ISBN 978-1-60750-757-4 (Editors: Ohnabe, H., Kubo, M., Collins, D.M., Cooper, R.A.).

2010 (2)

9. Supattra Puttinaowarat, Krekchai Thongnoo, Pichaya Tandayya, Distributed Geographic Information System for Geocollaboration Applications: A Case Study of Flood in Amphoe Hat Yai, Songkhla Province (in Thai language), *Journal of Remote Sensing and GIS Association of Thailand*, Vol. 2, 2010.
10. Unitsa Sangket, Surakameth Mahasirimongkol, Wasun Chantratita, Pichaya Tandayya and Yurii S. Aulchenko, ParallABEL: An R Library for Generalized Parallelization of Genome-Wide Association Studies. *BMC Bioinformatics*, Volume 11:217, 29 April 2010, Available on-line at <http://www.biomedcentral.com/1471-2105/11/217> (Journal Impact Factor: 3.78/2010).

2008 (1)

11. Pruittikorn Smithmaitrie, Jinda Kanjantoe and Pichaya Tandayya, Touching Force Response of the Piezoelectric Braille Cell, *Disability and Rehabilitation: Assistive Technology*, Volume 3, Issue 6, November 2008, pages 360 - 365, ISSN 1748-3107, Published online: 09 July 2009. (Journal Impact Factor: 0.038/2008).

2006 (1)

12. Richard Zobel, Pichaya Tandayya, and Helmut Duerrast, Modelling and Simulation of the Impact of Tsunami Waves at Beaches and Coastlines for Disaster Reduction in Thailand, *International Journal of Simulation Systems, Science & Technology (Special Issue on: Modelling, Simulation and Decision Support)*, United Kingdom Simulation Society, Volume 7, Number 4 & 5, July 2006, pages 40-50, ISSN 1473-8031.

Books

Book Chapters

1. Thanathip Limna, Pichaya Tandayya, and Nikom Suvonvorn, *Stereo Vision Utilizing Parallel Computing for the Visually Impaired*, Book Chapter (Chapter 5), In "Rehabilitation Engineering", IN-TECH, 2009, book edited by Tan Yen Kheng, ISBN 978-953-7619-37-4, DOI: 10.5772/7392, Available on-line at intechweb.org (Published on: 2009-12-01).

Editor

1. Kasikrit Damkliang and Natjaree Prechaweerakul, *Taverna Installation and User Manual* (in Thai language), Editor: Pichaya Tandayya, Thai National Grid Center, 2008.

Proceedings: R&D

2020 (1)

1. Pun Ruengjaruwatana and Pichaya Tandayya, An Assisting Application for Composing and Proofing Poems and Building Poetry Community, In Proceedings of *11th ECTI-Conference on Application Research and Development (ECTI-CARD 2020)*, Ubon Ratchathani, Thailand, 26th - 29th May 2020.

2019 (1)

2. Taofik Lamsub and Pichaya Tandayya, A Dynamic Popularity Caching Policy for Dynamic Adaptive Streaming over HTTP, In Proceedings of *The 19th International Symposium on Communications and Information Technologies (ISCIT 2019)*, Ho Chi Minh City, Vietnam, 25th - 27th September 2019.

2018 (2)

3. Thada Wangthammang and Pichaya Tandayya, A Software Cache Mechanism for Reducing the OpenTSDB Query Time, In Proceedings of *The 18th International Symposium on Communications and Information Technologies (ISCIT 2018)*, Bangkok, Thailand, 26th - 29th September 2018.
4. Myint Zaw and Pichaya Tandayya, Multi-level Sentiment Information Extraction Using the CRbSA Algorithm, In Proceedings of *15th International Joint Conference on Computer Science and Software Engineering (JCSSE 2018)*, Nakhon Pathom, Thailand, 11th – 13th July 2018.

2017 (2)

5. Thawatchai Klinhom, Apichart Laedam and Pichaya Tandayya, Personal Trainer (in Thai language), In Proceedings of *9th ECTI-Conference on Application Research and Development (ECTI-CARD 2017)*, Chiangkhan, Loei, Thailand, 25th -28th July 2017, pages 53-56.
6. Phutthewan Yangyuenyong, Aran Khunarree, Chalemchon Saekoo, Pichaya Tandayya and Thanathip Limna, A Distributed Simulation System for Training and Testing MOBA Game Programming, In Proceedings of *14th International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology (ECTI-CON 2017)*, Phuket, Thailand, 27th – 30th June 2017.

2015 (7)

7. Kritwara Rattanaopas and Pichaya Tandayya, Adaptive Workload Prediction for Cloud-based Server Infrastructures, In Proceedings of *2nd Advancement on Information Technology International Conference (ADVCIT 2015)*, Krabi, Thailand, 3rd – 5th December 2015.
8. Kritwara Rattanaopas and Pichaya Tandayya, Performance Analysis of a Multi-Tier Video on Demand Service on Virtualization Platforms, In Proceedings of *19th International Computer Science and Engineering Conference (ICSEC 2015)*, Chiang Mai, Thailand, 23rd – 26th November 2015.
9. Kasikrit Damkliang, Pichaya Tandayya, Unitsa Sangket, Surakameth Mahasirimongkol, and Ekawat Pasomsab, An Efficient Process for Enhancing Genotype Imputation in Genome-wide

Association Studies Using High Performance Computing, In Proceedings of *19th International Computer Science and Engineering Conference (ICSEC 2015)*, Chiang Mai, Thailand, 23rd – 26th November 2015.

10. Attasuntorn Traisuwan, Pichaya Tandayya and Thanathip Limna, Workflow Translation and Dynamic Invocation for Image Processing Based on OpenCV, In Proceedings of *12th International Joint Conference on Computer Science and Software Engineering (JCSSE 2015)*, Hat Yai, Songkhla, Thailand, 22nd – 24th July 2015.
11. Thanathip Limna and Pichaya Tandayya, Video Surveillance as a Service Cost Estimation and Pricing Model, In Proceedings of *12th International Joint Conference on Computer Science and Software Engineering (JCSSE 2015)*, Hat Yai, Songkhla, Thailand, 22nd – 24th July 2015, DOI: 10.1109/JCSSE.2015.7219791.
12. Vara Pulsawat and Pichaya Tandayya, Applying Ultrasonic Sensors for helping the visually impaired to discover objects in new area (in Thai language), In Proceedings of *7th ECTI-Conference on Application Research and Development (ECTI-CARD 2015)*, Trang, Thailand, 8th -10th July 2015.
13. Kritwara Rattanaopas and Pichaya Tandayya, Comparison of Disk I/O Power Consumption in Modern Virtualization, In Proceedings of *2nd International Conference on Computer, Communication, and Control (I4CT 2015)*, Kuching, Sarawak, Sarawak, Malaysia, 21st - 23rd April 2015.

2014 (1)

14. Attasuntorn Traisuwan, Yoschanin Sasiwat, Wongpiti Wangsanti, Thanathip Limna and Pichaya Tandayya, Hawk Eye Community: an API for Nokkhum VSaaS, In Proceedings of *The 29th International Technical Conference on Circuits/Systems, Computers and Communications (ITC-CSCC 2014)*, Phuket, Thailand, 1st - 4th July 2014.

2012 (7)

15. Thanathip Limna and Pichaya Tandayya, Approaches in Stereo Vision for Obstacle Location and Presentation for the Visually Impaired, In Proceedings of *2012 International Computer Science and Engineering Conference (ICSEC 2012)*, Pattaya, Thailand, 17th -18th October 2012.
16. Teerapon Chongpipattanasiri, Watcharin Kaewapichai, Pichaya Tandayya, Data Fusion of Stereo Vision and Ultrasonic Sensing for the Visually Impaired's Travelling Guide, In Proceedings of *2012 International Computer Science and Engineering Conference (ICSEC 2012)*, Pattaya, Thailand, 17th -18th October 2012.
17. Thanathip Limna and Pichaya Tandayya, Design for a Flexible Video Surveillance as a Service, In Proceedings of *5th International Conference on Image and Signal Processing (CISP 2012)*, Chongqing, China, 16th -18th October 2012, pages 222-226.
18. Kamonwan Pakdechote and Pichaya Tandayya, A New Web Interface for the Visually Impaired to Access Facebook, In Proceedings of *6th International Convention on Rehabilitative Engineering & Assistive Technology (i-CREATE 2012)*, Singapore, 24th– 26th July 2012.
19. Sureerat Kaewkeeree and Pichaya Tandayya, Enhancing the Taverna Workflow System for Executing and Analyzing the Performance of Image Processing Algorithms, In Proceedings of *9th International Joint Conference on Computer Science and Software Engineering (JCSSE 2012)*, Bangkok, Thailand, 30th May – 1st June 2012.
20. Teerapon Chongpipattanasiri, Watcharin Kaewapichai, and Pichaya Tandayya, The Stereo Vision and Distance Sensors Fusing for the Visually Impaired, In Proceedings of *10th International PSU Engineering Conference (IPEC-10)*, Songkhla, Thailand, 14th-15th May 2012.
21. Totsawat Chunhawitayatera and Pichaya Tandayya, Enhancing Thai Braille translation with n-gram for decision making in the cases of compound consonants, vowels and characters (in Thai language), In Proceedings of *Payap University Research Symposium 2012*, Chiangmai, Thailand, 17th February 2012, Best Paper Award in Technological Science.

2011 (1)

22. Unitsa Sangket, Surakameth Mahasirimongkol, Wasun Chantratita, Pichaya Tandayya, and Yurii S. Aulchenko, ParallABEL: an R library for speedup of GWAS applying parallel computing, In Proceedings of *10th International Conference on Bioinformatics and 1st International Society for Computational Biology-Asia (InCoB 2011/ISCB-Asia 2011)*, Kuala Lumpur, Malaysia, 30th November 30 – 2nd December 2011.

2010 (2)

23. Richard Zobel, Helmut Duerrast, and Pichaya Tandayya, [The Uniqueness of Adjacent Beaches for Tsunami Mitigation Efforts: A Case Study from Phuket, Thailand](#), In Proceedings of *2nd International Conference on Computational Intelligence, Modelling and Simulation*, Bali, Indonesia, 28th -30th September 2010, pages 407-411, ISBN: 978-0-7695-4262-1.
24. Saowalak Teeratananon and Pichaya Tandayya, Design and Analysis of Different Thai Character Arrangements for Keyboard on Screen (in Thai language), In Proceedings of *8th PSU-Engineering Conference (PEC-8)*, Songkhla, Thailand, 22nd -23rd April 2010, Best Paper Award in Applications in Computer Engineering.

2009 (5)

25. Pichaya Tandayya, Vorapol Thinnagonsutibut, Chatchai Jantaraprim, and Wiraman Niyompol, On-the-fly Braille and ASCII Thai Translation for PSU Braille Notebook, In Proceedings of *24th Japanese Conference on the Advancement of the Assistive and Rehabilitation Technology (24th JCAART)*, National Rehabilitation Center for Persons with Disabilities, Saitama, Japan, 26th -28th August 2009, pages 141-142.
26. Kasikrit Damkliang, Pichaya Tandayya, Ekawat Pasomsuba, Wasun Chantratita and Surakameth Mahasirimongkol, [Taverna Workflow for Validating Biomart Services](#), In Proceedings of *2009 International Conference on Computer Design and Applications (ICCD 2009)*, 15th - 17th May 2009, pages 459-463, ISBN: 978-1-4244-4263-8.
27. Thanathip Limna and Pichaya Tandayya, [Enhancing the Pixel-to-Pixel Depth Discontinuities Algorithm Using MPI](#), In Proceedings of *6th International Joint Conference on Computer Science and Software Engineering (JCSSE2009)*, Phuket, Thailand, 13th – 15th May 2009, pages 86-90.
28. Thanathip Limna, Pichaya Tandayya and Nikom Suvanvorn, [Low-cost Stereo Vision System for Supporting the Visually Impaired's Walk](#), In Proceedings of *3rd international Convention on Rehabilitative Engineering & Assistive Technology (i-CREATE 2009)*, Singapore, 22nd – 26th April 2009.
29. Kasikrit Damkliang, Pichaya Tandayya, Unitsa Sangket and Theerawut Phusantisampan, [Taverna Workflow and Supporting Services for Single Nucleotide Polymorphisms Analysis Gene Using Taverna](#), In Proceedings of *2009 International Conference on Information Management and Engineering (ICIME 2009)*, Kuala Lumpur, Malaysia, 3rd - 5th April 2009, pages 27-31, ISBN: 978-1-4244-3774-0.

2008 (2)

30. Pichaya Tandayya, Wannarat Suntiamorntut, Suntorn Witosurapot, Chatchai Jantaraprim, Worrarot Chukumnird, Vorapol Thinnagonsutibut, Thanathip Limna, Suppachai Madue, and Wiraman Niyompol, Computer Notebook with Thai and English Processing Support for the Visually Impaired, In Proceedings of *23rd Japanese Conference on the Advancement of the Assistive and Rehabilitation Technology (23rd JCAART)*, Niigata, Japan, 27th – 29th August 2008, pages 333-334.
31. Wiraman Niyomphol, Pichaya Tandayya, Wichian Nantachaipitak, and Chaiya Intasoi, A Simple Text-based Method of Producing Math/Science Symbols or Musical Notes for Use in a Thai/English Braille Translation Software, In Proceedings of *2nd International Convention on*

Rehabilitation Engineering & Assistive Technology (i-CREATE 2008), Bangkok, Thailand, 13th - 15th May 2008.

2007 (8)

32. Thitima Theppaya, Pichaya Tandayya and Chatchai Jantaraprim, [HLA-Based Distributed Interactive Simulation on Scilab](#) (in Thai language), In Proceedings of *Thai Grid Computing Conference (TGCC 2007)*, Bangkok, Thailand, 23rd -24th August 2007.
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34. Thanathip Limna, Chomphunut Sae-tang, Chatchai Jantaraprim, Pichaya Tandayya and Wiraman Niyompol, [Linux User Interface and Front-end Operation for the Visually Impaired](#), In Proceedings of *the Inaugural International Convention for Rehabilitation Engineering & Assistive Technology (i-CREATE 2007)*, Singapore, 23rd – 26th April 2007, pages 179-184, ISBN 978-981-05-8075-9.
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