Patanamon (Pick) Thongtanunam

Curriculum Vitae

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162 Country Club Drive, Kingston, Ontario, Canada. K7M7B6

Summary:

- *A research fellow of the Japan Society for the Promotion of Science (JSPS)*
- *Scholarly endeavors have been acknowledged with numerous awards, scholarships, and research grants ranging from university-specific to nation-wide*
- *Pioneering research on code reviews which laid the groundwork for a rapidly-growing research community with strong industrial interests*
- *Broad network of collaborators from institutions in Canada, USA, and Japan*

Publications:

Papers in Refereed International Journals

EMSE2016 **Review Participation in Modern Code Review: An Empirical Study of the Android, Qt, and OpenStack Projects**
Patanamon Thongtanunam, Shane McIntosh, Ahmed E. Hassan, and Hajimu Iida
Springer Journal of Empirical Software Engineering (EMSE), In press, 1-47, 2016

RSS2013 **Mining History of Gamification Towards Finding Expertise in Question and Answering Communities: Experience and Practice with Stack Exchange**
Patanamon Thongtanunam, Raula Gaikovina Kula, Ana Erika Camargo Cruz, Norihiro Yoshida, Kohei Ichikawa, and Hajimu Iida
Springer Journal of Review of Socionetwork Strategies, vol. 7, no. 2, pp. 115-130, 2013

Papers in Refereed International Conference Proceedings

ICSE2016 **Revisiting Code Ownership and its Relationship with Software Quality in the Scope of Modern Code Review**
Patanamon Thongtanunam, Shane McIntosh, Ahmed E. Hassan, and Hajimu Iida
In Proceedings of the 38th International Conference on Software Engineering, pp. 1039-1050, 2016
Acceptance rate: 19% (101/530)

MSR2015 **Investigating Code Review Practices in Defective Files: An Empirical Study of the Qt System**
⋆⋆ IEEE Kansai Excellent Student Paper Award ⋆⋆
Patanamon Thongtanunam, Shane McIntosh, Ahmed E. Hassan, and Hajimu Iida
In Proceedings of the 12th Working Conference on Mining Software Repositories, pp. 168-179, 2015
Acceptance rate: 30% (32/106)

SANER2015 **Who Should Review My Code? A File Location-Based Code-Reviewer Recommendation Approach for Modern Code Review**
Patanamon Thongtanunam, Chakkrit Tantithamthavorn, Raula Gaikovina Kula, Norihiro Yoshida, Hajimu Iida and Kenichi Matsumoto
In Proceedings of the 22nd International Conference on Software Analysis, Evolution, and Reengineering, pp. 141-150, 2014
Acceptance rate: 32% (46/144)

ICSME2014 **ReDA: A Web-based Visualization Tool for Analyzing Modern Code Review Dataset**
Patanamon Thongtanunam, Xin Yang, Norihiro Yoshida,Kenji Fujiwara,Raula Gaikovina Kula, Ana Erika Camargo Cruz, and Hajimu Iida
In Proceedings of the 30th International Conference on Software Maintenance and Evolution, pp. 605-608, 2014

PAPERS IN REFEREED INTERNATIONAL WORKSHOP PROCEEDINGS

CHASE2014 **Improving Code Review Effectiveness Through Reviewer Recommendations**
Patanamon Thongtanunam, Raula Gaikovina Kula, Ana Erika Camargo Cruz, Norihiro Yoshida, and Hajimu Iida
In Proceedings of the 7th International Workshop on Cooperative and Human Aspects of Software Engineering, pp. 119-122, 2014

IWESEP2014 **Assessing MCR Discussion Usefulness using Semantic Similarity**
Thai Pangsakulyanont, Patanamon Thongtanunam, Daniel Port, and Hajimu Iida
In Proceedings of the 6th International Workshop on Empirical Software Engineering in Practice, pp. 49-54, 2014

Recognition:

GRANTS & SCHOLARSHIPS   Total: Approx. 123,000 CAD

2016 **JSPS Grant-in-Aid (KAKENHI)**   *PI: Approx. 21,000 CAD*
Grants-in-Aid for Scientific Research is a competitive research grant sponsored by the Ministry of Education, Culture, Sports, Science and Technology (MEXT) in the Japan and Japan Society for the Promotion of Science (JSPS). The goal of the program is to promote research across a wide variety of fields, ranging from the humanities and social sciences to the natural sciences. The grant provides financial support for creative and pioneering research projects that will become the foundation of social development.

2016 **JSPS Research Fellowship for Young Scientists**   *Approx. 61,000 CAD*
The Japan Society for the Promotion of Science (JSPS) Research Fellowships for Young Scientists aims to foster creative researchers who will play major roles in future scientific research activities. JSPS Research Fellowship is awarded to young researchers (i.e., graduate students and postdoctoral researchers) in Japan who have prominent research abilities and demonstrate their excellent research achievements. *The acceptance rate is 158/738 (21%) for applicants in the applied science field.*

2015 **NEC C&C Grant for Non-Japanese Researchers**   *Approx. 19,000 CAD*
NEC C&C Foundation provides financial support to non-Japanese students engaged in research at universities and research institutes in Japan in the fields of computer and

communications. The grant will be offered to the top-three applicants (Ph.D. students) across the country.

2014 **NAIST Excellent Student Scholarship 2014** *Approx. 6,800 CAD*
NAIST aims to attract and foster excellent students who will study in their doctoral course by providing a full-year tuition exemption program. The scholarship is offered to students who demonstrate a high standard of scholarly achievement in graduate studies.

2014 **NEC C&C Traveling Grant** *Approx. 2,500 CAD*
NEC C&C provides grants for researchers to attend international conferences. The grant was awarded for me to attend the International Conference on Software Engineering (ICSE2014), Hyderabad, India.

2014 **NAIST Global Initiatives Program Grant** *Approx. 1,500 CAD*
NAIST Global Initiatives Program provides financial support for research collaborations and grants to visit the Software Analysis and Intelligence Laboratory at Queen's University in Canada.

2013 **JASSO Honors Scholarship** *Approx. 4,900 CAD*
Japan Student Services Organization (JASSO) offers Japanese Government Honors Scholarship for Privately Financed Non-Japanese Students who attend a university or other institution of higher education in Japan.

2013 **Creative and International Competitiveness Project** *Co-PI: Approx. 6,300 CAD*
Creative and International Competitiveness Project (CICP) is a project in NAIST which aims to raise the ability of NAIST Students to plan and manage research projects as well as communication skills.

Awards

2015 **IEEE Kansai Excellent Student Paper Award** *MSR2015*
Awarded to paper titled "Investigating Code Review Practices in Defective Files: An Empirical Study of the Qt System"

2015 **ACM SIGSOFT CAPS Merit-based Award** *ICSE2015*
For attending the 37th International Conference on Software Engineering

2015 **Google/SAP Diversity Award** *SANER2015*
For attending the 22nd IEEE International Conference on Software Analysis, Evolution, and Reengineering

2014 **Best Presentation Award** *IWESEP2014*
Awarded to paper titled "Assessing MCR Discussion Usefulness using Semantic Similarity"

2012 **Second Class Honors of Bachelor Degree**
Kasetsart University, Thailand

2010 **Excellent Academic Student**
Kasetsart University, Thailand

Public Talks

Sep 2016 **Revisiting Code Ownership and Its Relationship with Software Quality in the Scope of Modern Code Review** *Invited Talk*
Venue: The 33rd Conference of Japan Society for Software Science and Technology, Sendai, Japan.

May 2016	**Revisiting Code Ownership and Its Relationship with Software Quality in the Scope of Modern Code Review** *Paper Presentation*
	Venue: The 38th International Conference on Software Engineering (ICSE), Austin, USA.
Jan 2016	**Revisiting Code Ownership in the Scope of Modern Code Review** *Invited Talk*
	Venue: Polytechnique Montreal, Quebec, Canada
Jan 2016	**Revisiting Code Ownership in the Scope of Modern Code Review** *Invited Talk*
	Venue: McGill University, Quebec, Canada
May 2015	**Investigating Code Review Practices in Defective Files: An Empirical Study of the Qt System** *Paper presentation*
	Venue: The 12th Working Conference on Mining Software Repositories (MSR), Florence, Italy
Mar 2015	**Who Should Review My Code?** *Paper presentation*
	Venue: he 22nd International Conference on Software Analysis, Evolution, and Reengineering (SANER), Montreal, Quebec, Canada
Oct 2014	**ReDA: A Web-based Visualization Tool for Analyzing Modern Code Review Dataset** *Paper presentation*
	Venue: The 30th International Conference on Software Maintenance and Evolution (ICSME), Victoria, British Columbia, Canada
Oct 2014	**Improving Code Review Effectiveness Through Reviewer Recommendations** *Paper presentation*
	Venue: The 7th International Workshop on Cooperative and Human Aspects of Software Engineering (CHASE), Hyderabad, India

Experience:

ACADEMIC SERVICES

Journal Referee

2016 IEEE Transactions on Software Engineering (TSE)

Program Committee

2017 International Workshop on Empirical Software Engineering in Practice (IWESEP)

Additional Reviewer

2016 The 23rd Asia-Pacific Software Engineering Conference (APSEC)

2016 The 23rd International Conference on Software Analysis, Evolution, and Reengineering, Tool Track (SANER)

2013 Thailand-Japan International Academic Conference 2013 (TJIA2013)

Conference Organizing Committee

2016 International Workshop on Empirical Software Engineering in Practice (IWESEP2016), Registration Chair

2014 International Workshop on Empirical Software Engineering in Practice (IWESEP2014), Financial Chair

2013 Thailand-Japan International Academic Conference 2013 (TJIA2013), Financial Chair

Student Volunteer

2016 The 23rd International Conference on Software Analysis, Evolution, and Reengineering (SANER2016), Future of Software Engineering

MENTORSHIP EXPERIENCE

Xin Yang (Ph.D.) *Spring 2016 - present*
Title: Fairness in Code Reviews: An Empirical Study of Prioritization in OpenStack *(In preparation for EMSE submission)*
Co-Authors: Xin Yang, Patanamon Thongtanunam, German Poo-Caamano, Daniel M. German, Gregorio Robles, Hajimu Iida, and Kenichi Matsumoto

Shade Ruangwan (MSc.) *Spring 2016 - present*
Title: Studying Participation Decisions in Modern Code Review (In preparation for EMSE submission)
Co-Authors: Shade Ruangwan, Patanamon Thongtanunam, Akinori Ihara, and Kenichi Matsumoto

Pongsachon Pornsriniyom (BSc.) *May 2016 - present*
Title: Understanding Code Evolution in Modern Code Review Processes

Nattapat Sukpootanan (BSc.) *May 2016 - present*
Title: Do Code Review Practices Improve Code Quality?

Thai Pangsakulyanont (BSc.) *June 2014 - July 2014*
Title: Assessing MCR Discussion Usefulness using Semantic Similarity *(IWESEP2014)*

RESEARCH EXPERIENCE

Postdoctoral Researcher *January 2017 - present*
Software Analysis and Intelligence Laboratory, Queen's University, Canada.
Supervisor: Professor Ahmed E. Hassan

Research Fellow *April 2016 - December 2016*
Japan Society for the Promotion of Science, Japan
Supervisor: Professor Hajimu Iida

Visiting Researcher *August 2014 - April 2016*
Software Analysis and Intelligence Laboratory, Queen's University, Canada.
Supervisor: Professor Ahmed E. Hassan

Research Assistant *October 2012 - March 2014*
Software Design and Analysis Laboratory, Nara Institute of Science and Technology, Japan
Supervisor: Professor Hajimu Iida

Education:

Doctor of Engineering (D.Eng) *April 2014 - September 2016*
Thesis title: Studying Reviewer Selection and Involvement in Modern Code Review Processes
Nara Institute of Science and Technology, Japan
Supervisors: Professors Hajimu Iida, Ahmed E. Hassan (Queens' University)
External: Professors Margaret-Anne Storey (University of Vitoria)
Thesis committees: Kenichi Matsumoto, Kohei Ichikawa, Eunjong Choi

Master of Engineering (M.Eng)   *October 2012 - March 2014*
Thesis title: An Approach to Recommend Reviewers using File Path Similarity for Peer Code Review Process
Nara Institute of Science and Technology, Japan
Supervisor: Professor Hajimu Iida
Thesis committees: Professors Kenichi Matsumoto, Keiichi Yasumoto, Kohei Ichikawa, Norihiro Yoshida, Arnon Rungsawang, Putchong Uthayopas

Bachelor of Engineering (B.Eng)   *May 2008 - May 2012*
Project Title: Clustering-based Web Changed-Interval Prediction for a Designation of Web Crawling Policies
Kasetsart University, Thailand
Supervisor: Professor Arnon Rungsawang