

# Patanamon (Pick) Thongtanunam

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Software Design and Analysis Laboratory

Nara Institute of Science and Technology, 8916-5 Takayama, Ikoma, Nara, 630-0192 • Japan

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## Summary

*A research fellow of the Japan Society for the Promotion of Science (JSPS) • Studying code reviews which laid the groundwork for a rapidly-growing research community that has industrial interests • Board network collaborators from institutions in Canada, USA, and Japan.*

My research is focused on uncovering empirical evidence and knowledge from data recorded in software repositories by using statistical analysis. The foundation for my Ph.D. thesis has been pub-

lished at Springer Journal of Empirical Software Engineering (EMSE), International Conference on Software Engineering (ICSE), International Conference on Mining Software Repositories (MSR), and International Conference on Software Analysis, Evolution, and Reengineering (SANER).

My publications and scholarly endeavors also have been acknowledged with numerous awards and scholarships, ranging from university-specific to nation-wide.

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## Publications

### PAPER 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, Hajimu Iida  
Springer Journal of Empirical Software Engineering (EMSE), 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

- MSR2015 **Investigating Code Review Practices in Defective Files: An Empirical Study of the Qt System**

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

- 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 IEEE International Conference on Software Analysis, Evolution, and Reengineering, pp. 141-150, 2014
- 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, Hajimu Iida  
 In Proceedings of the 30th International Conference on Software Maintenance and Evolution, pp. 605-608, 2014
- 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 (CHASE2014), 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 International Workshop on Empirical Software Engineering in Practice (IWESEP 2014), pp. 49-54, 2014  
 In Proceedings of the 30th International Conference on Software Maintenance and Evolution, pp. 605-608, 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 sponsored by Ministry of Education, Culture, Sports, Science and Technology (MEXT) in Japan and Japan Society for the Promotion of Science (JSPS) to promote research across a wide variety of fields, ranging from the humanities and social sciences to the natural sciences. The grants provide 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 (21.4%) for the 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 engaged in research at universities and research institutes in Japan in the fields of C&C. 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 doctoral course by setting up the full-year tuition exemption program. The scholarship will be 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 is awarded for attending 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 collaboration and visiting at SAIL Lab, Queen's University, Canada
- 2013 **JASSO Honor's Scholarship** *Approx. 4,900 CAD*  
 Japan Student Services Organization (JASSO) offers Monbukagakusho 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

## Experiences

### ACADEMIC SERVICES

#### Reviewer

- 2016 IEEE Transactions on Software Engineering (TSE)
- 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), FOSE

## **MENTORSHIP EXPERIENCE**

### **Xin Yang**

*Spring 2016 - present*

Title: Fairness in Code Reviews: An Empirical Study of Prioritization in OpenStack (*In preparation*)

Co-Authors: Xin Yang, Patanamon Thongtanunam, German Poo-Caamano, Daniel M. German, Gregorio Robles, Hajimu Iida, Kenichi Matsumoto

### **Shade Ruangwan**

*Spring 2016 - present*

Title: Studying Participation Decision in Modern Code Review

### **Pongsachon Pornsriniyom**

*May 2016 - present*

Title: Understanding Code Evolution in Modern Code Review Process

### **Nattapat Sukpootanan**

*May 2016 - present*

Title: Do Code Review Practices Improve Code Quality?

### **Thai Pangsakulyanont**

*June 2014 - July 2014*

Title: Assessing MCR Discussion Usefulness using Semantic Similarity (*IWESEP2014*)

## **RESEARCH EXPERIENCE**

### **Visiting Postdoctoral Researcher**

*January 2017 -*

Software Analysis and Intelligence Laboratory, Queen's University, Canada.

Supervisor: Professor Ahmed E. Hassan

### **Research Fellow**

*April 2016 - March 2018*

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

Thesis committees: Professors Margaret-Anne Storey, 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