# Chaiyong Ragkhitwetsagul

**Address**

Faculty of ICT
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## Research Interests

Software Engineering, Static Software Analysis, Code Clone Detection, Mining Software Repositories

## Professional Experience

Lecturer, Faculty of ICT, since December 2012
Assistant Dean of the Academic Administration, October 2018 – October 2020
Mahidol University
Thailand

System Analyst, 2009 – 2012
National Economic and Social Development Board
Thailand

Software Test Engineer, 2006 – 2007
Microsoft (Thailand)
Thailand

## Education

Doctor of Philosophy (Computer Science – Software Engineering)
Department of Computer Science , University College London, UK, October 2018

Master of Science in IT – Very Large Information Systems
Carnegie Mellon University, USA, December 2008

Bachelor of Engineering, Department of Computer Engineering (Magna cum Laude)
Kasetsart University, Thailand, March 2006

## Selected Honors

PhD Thesis Awards, National Research Awards 2020, National Research Council of Thailand

The Best Tool Demo Award, 36th IEEE International Conference on Software Maintenance and Evolution (ICSME 2020) - Tool Demo, Adelaide, Australia (Virtual Event).

The People's Choice Award (best presentation), 12th International Workshop on Software Clones, Campobasso, Italy, 2018

The People's Choice Award (best presentation), 11th International Workshop on Software Clones, Klagenfurt, Austria, 2017

Full PhD scholarship, Mahidol University, 2014

Full Master's degree scholarship, The Royal Thai Government, 2007

Winner of the 8th National Software Contest of Thailand (NSC) – Software for Entertainment, 2006

## Selected Professional Services

Program committee of the The 13th IEEE International Conference on Knowledge and Systems Engineering (KSE 2021).

Program committee of the 15th International Workshop on Software Clones (IWSC 2021).

Program committee, Replications and Negative Results Track of the 13th Symposium on Search-Based Software Engineering (SSBSE 2021).

Program committee, Research Track of the 37th International Conference on Conference on Software Maintenance and Evolution (ICSME 2021).

Program committee, Late Breaking Results track of the 36th IEEE/ACM International Conference on Automated Software Engineering (ASE 2021).

Program committee, Posters Track of the 36th IEEE/ACM International Conference on Automated Software Engineering (ASE 2021).

Program committee, Posters Track of the 43rd International Conference on Software Engineering (ICSE 2021).

Program co-chair, Early Research Achievement (ERA) track of the 29th IEEE/ACM International Conference on Program Comprehension (ICPC 2021).

Guest Editors (with Hitesh Sajnani) for the Journal of Systems and Software: Special Issue on Software Clones.

Judge for the ACM Student Research Competition-track of the 42nd International Conference on Software Engineering (ICSE 2020)

Program committee, Late Breaking Results track of the 35th IEEE/ACM International Conference on Automated Software Engineering (ASE 2020).

Program committee, Research Papers track of the 35th IEEE/ACM International Conference on Automated Software Engineering (ASE 2020).

Program committee, Technical Research track of 28th IEEE/ACM International Conference on Program Comprehension 2020 (ICPC 2020).

Program committee of the 13th Innovations in Software Engineering Conference (ISEC 2020).

Program co-chairs of the 14th International Workshop on Software Clones (IWSC 2020).

Program committee, Technical Research track of the 35th IEEE International Conference on Software Maintenance and Evolution (ICSME 2019).

Program committee, Technical Research track of 27th IEEE/ACM International Conference on Program Comprehension 2019 (ICPC 2019).

Program committee, the 13th International Workshop on Software Clones (IWSC 2019).

## Selected Research Grants

Automated Software Engineering for Thailand Software Industry, Royal Academy of Engineering, UK and Thailand Science Research and Innovation (TSRI) (13,345 GBP), 2019 – 2021.

UIC grant, University of Wollongong, 2019 - 2020.

Amazon AWS Credits for Research (20,000 USD), 2018

NSF Student Travel Support (700 USD), the 8th Symposium on Search-Based Software Engineering, 2016

Microsoft Azure Research Award (20,000 USD), 2016

## Selected Invited Talks and Keynote Addresses
N/A

## Doctoral Student Supervision
N/A

## Publication Statistics
Monographs: 0
Journal Articles: 5
Conference Papers: 9
Book Chapters: 1
Workshop Papers: 5
Edited Volumes:  0
Citations (12 October 2021):
>            Google Scholar: 333 with h-index of 9
>            Scopus: 136 (excluding self-citations) with h-index of 7

**Selected Publications** (Full publication list: https://cragkhit.github.io/research.html)

**Book Chapters**
Krinke, J., & Ragkhitwetsagul, C. (2021). *Code Similarity in Clone Detection (Book Chapter).* In K. Inoue & C. K. Roy (Eds.), Code Clone Analysis (pp. 135–160), Springer.

**Journals**
Choetkiertikul, H. K. Dam, T. Tran, T. Pham, C. Ragkhitwetsagul, A. Ghose. *Automatically recommending components for issue reports using deep learning.* Empirical Software Engineering (EMSE), (2021) 26:14.

M. Paixao, J. Krinke, D. Han, C. Ragkhitwetsagul, M. Harman. *The Impact of Code Review on Architectural Changes.* Transactions on Software Engineering (TSE), 2019.

C. Ragkhitwetsagul, J. Krinke. Siamese: Scalable and Incremental Code Clone Search via Multiple Code Representations. *Empirical Software Engineering*, 2019.

C. Ragkhitwetsagul, J. Krinke, M. Paixao, G. Bianco, R. Oliveto, Toxic Code Snippets on Stack Overflow, *IEEE Transactions on Software Engineering*, 2019.

C. Ragkhitwetsagul, J. Krinke, D.Clark. A Comparison of Code Similarity Analysers. *Empirical Software Engineering*, https://doi.org/10.1007/s10664-017- 9564-7, 2017.

**Conferences**
Robert White, Jens Krinke, Earl Barr, Federica Sarro, Chaiyong Ragkhitwetsagul, *Artefact Relation Graphs for Unit Test Reuse Recommendation.* in the Proceedings of IEEE International Conference on Software Testing (ICST), Virtual Event.

D. Han, C. Ragkhitwetsagul, J. Krinke, M. Paixao, G. Rosa, *Does code review really remove coding convention violations?*. in the 20th IEEE International Working Conference on Source Code Analysis and Manipulation (SCAM) in Adelaide, Australia.

C. Khanan, W. Luewichana, K. Pruktharathikoon, J. Jiarpakdee, C. Tantithamthavorn, M. Choetkiertikul, C. Ragkhitwetsagul, T. Sunetnanta. *JITBot: An Explainable Just-In-Time Defect Prediction Bot*, in the 35th IEEE/ACM International Conference on Automated Software Engineering (ASE '20) - Tool Demo Track, September 21–25, 2020, Virtual Event, Australia

P. Phan-udom, N. Wattanakul, T. Sakulniwat, C. Ragkhitwetsagul, T. Sunetnanta, M. Choetkiertikul, R.G. Kula *Teddy: Automatic Recommendation of PythonicIdiom Usage For Pull-Based Software Project*, in the 36th IEEE International Conference on Software Maintenance and Evolution (ICSME 2020) in Adelaide, Australia.

J. Wilkie, Z. Al Halabi , A. Karaoglu , J. Liao , G. Ndungu, C. Ragkhitwetsagul, M. Paixao , J. Krinke. Who's this? Developer identification using IDE event data. In *the 15th International Conference on Mining Software Repositories – Mining Challenge (MSR 2018),* 2018. Gothenburg, Sweden

M. Paixao, J. Krinke, D. Han, C. Ragkhitwetsagul and M. Harman. Are Developers Aware of the Architectural Impact of Their Changes? In *the 32nd IEEE/ACM International Conference on Automated Software Engineering (ASE 2017)*, 2017. Illinois, USA

C. Ragkhitwetsagul, M. Paixao, M. Adham, S. Busari, J. Krinke, and J. H. Drake. Searching for Configurations in Clone Evalution: A Replication Study. In *8th International Symposium on Search-based Software Engineering (SSBSE): Challenge Track*, 2016. Raleigh, NC, USA.

C. Ragkhitwetsagul, J. Krinke, D. Clark. Similarity of Source Code in the Presence of Pervasive Modifications. In *16th IEEE International Working Conference on Source Code Analysis and Manipulation (SCAM)*, 2016. Raleigh, NC, USA.

C. Ragkhitwetsagul. Measuring Code Similarity in Large-scaled Code Corpora. In *32nd International Conference on Software Maintenance and Evolution (ICSME): Doctoral Symposium*, 2016. Raleigh, NC, USA.

**Workshops**
N. Assavakamhaenghan, M. Choetkiertikul, S. Tuarob, R. G. Kula, H. Hata, C. Ragkhitwetsagul, T. Sunetnanta, and K. Matsumoto. *Software Team Member Configurations: A Study of Team Effectiveness in Moodle*, in the 10th International Workshop on Empirical Software Engineering in Practice (IWESEP 2019), Tokyo, Japan

T. Sakulniwat, R. G. Kula, C. Ragkhitwetsagul, M. Choetkiertikul, T. Sunetnanta, D. Wang, T. Ishio and K. Matsumoto. *Visualizing the Usage of Pythonic Idioms Over Time: A Case Study of the with open Idiom*, in the 10th International Workshop on Empirical Software Engineering in Practice (IWESEP 2019), Tokyo, Japan

V. Arammongkolvichai, R. Koschke, C. Ragkhitwetsagul, M. Choetkiertikul, T. Sunetnanta. *Improving Clone Detection Precision using Machine Learning Techniques*, in the 10th International Workshop on Empirical Software Engineering in Practice (IWESEP 2019), Tokyo, Japan

C. Ragkhitwetsagul, J. Krinke. A picture is worth a thousand words: code clone detection based on image similarity. *In the 12th International Workshop on Software Clones (IWSC 2018)*, 2018. Campobasso, Italy

C. Ragkhitwetsagul, J. Krinke. Using Compilation/Decompilation to Enhance Clone Detection. In *11th International Workshop on Software Clones,* 2017. Klagenfurt, Austria

**Technical Reports**
C. Ragkhitwetsagul, J. Krinke, R. Oliveto. Awareness and Experience of Developers to Outdated and License-Violating Code on Stack Overflow: An Online Survey. *UCL Computer Science Research Note (RN/17/10),* 2017.