

## PERSONAL DATA



Name : Dr ADISAK INTANA

Position : Lecturer

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## EDUCATION

Ph.D. Degree	Ph.D. (Computer Science), Southampton University, United Kingdom
Master Degree	M.Sc. (Computer Science), Prince of Songkla University, Thailand
Bachelor Degree	B.Sc. (Computer Science), Prince of Songkla University, Thailand

## RESEARCH INTERESTS

Software Engineering



Formal Methods and Engineering



Software Verification and Validation



Software Testing



CASE Tool Development



Ontology Modelling and Engineering

## RESEARCH PROJECTS

### Ongoing Research Projects:

- แพลตฟอร์มปัญญาประดิษฐ์สำหรับการท่องเที่ยวเชิงประวัติศาสตร์ กรณีศึกษาเส้นทางข้ามคาบสมุทรจังหวัดระนองและชุมพร
- ระบบจำแนกข้อความทางประวัติศาสตร์ด้วยปัญญาประดิษฐ์ กรณีศึกษา ดินแดนสุวรรณภูมิ
- การใช้ปัญญาประดิษฐ์สำหรับการวิเคราะห์ข้อมูลข่าวจากสื่อสังคมออนไลน์

### Previous Research Projects:

- **STATETest: An Automatic Test Case Generation Framework for State Transition Testing**

A. Intana, A. Sawedsuthiphan, "STATETest: An Automatic Test Case Generation Framework for State Transition Testing," 2023 20th International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology (ECTI-CON), 2023.

- **An Automated Impact Analysis Framework of Test Cases Based on Changes of Use Case Based Requirement Specification with the Hybrid Testing Generation Approach of Equivalence Class Partitioning with Classification Tree Method**

A. Intana, K. Laosen, T. Sriraksa, "An Automated Impact Analysis Approach for Test Cases based on Changes of Use Case based Requirement Specifications," International Journal of Advanced Computer Science and Applications (IJACSA), vol. 14, no. 1, January, 2023.

- **A Framework of Context – Aware Recommender System for Sport Tourists**

W. Tanthavanich and A. Intana, "The Development of Running Event Ontology for Sport Tourism in Thailand," 2021 36th International Technical Conference on Circuits/Systems, Computers and Communications (ITC-CSCC), 2021, pp. 1-4, doi: 10.1109/ITC-CSCC52171.2021.9501410.

- **A Framework of Test Case Generation with Software Requirements Ontology**

S. Charoenreh and A. Intana, "Enhancing Software Testing with Ontology Engineering Approach," 2019 23rd International Computer Science and Engineering Conference (ICSEC), Phuket, Thailand, 2019, pp. 186-191, doi: 10.1109/ICSEC47112.2019.8974672.

- **SYNTTest (Syntax Test Case Generation) Tool**

A. Intana, M. Thongthep, P. Thepnimit, P. Saethapan and T. Monpipat, "SYNTTest: Prototype of Syntax Test Case Generation Tool," 2020 - 5th International Conference on Information Technology (InCIT), Chonburi, Thailand, 2020, pp. 259-264, doi: 10.1109/InCIT50588.2020.9310968.

- **FATCG (Fault Analysis based Test Case Generation)**

T. Sriraksa and A. Intana, "Adding Effectiveness to Combination of Equivalence Partitioning and Classification Tree Based Testing Technique with Fault Tree Analysis," 2017 - 21st International Computer Science and Engineering Conference, Bangkok, Thailand, 2017, pp. 348-353.

- **UCDev (Use Case Development) Tool**

A. Intana, P. Buranapraphan, J. Pitukdansakul and S. Vongna, "A Prototype of Use Case Development for Supporting Scenario Based Requirement Engineering," 2017 - 9th National Conference on Information Technology (NCIT), Bangkok,

Thailand, 2017, pp. pp.269-274.

- **TestGen (Test Case Generation) Tool**

A. Intana, T. Sriraksa, S. Kaewyao, J. Phetrupan and K. Singsom "The Prototype Development of Automatic Test Case Generation for Supporting System and User Acceptance Testing," *2017 - 9th National Conference on Information Technology (NCIT)*, Bangkok, Thailand, 2017, pp. 246-252.

[Research Projects](#)

## TEACHING

- 976-130 Computer and Internet Technology
- 977-271 Requirement Engineering and Software Modeling
- 977-371 Software Requirement Specification and Management
- 140-370 Software Engineering
- 977-374 Software Verification and Validation
- 976-502 Research Methodology in IT
- 969-051 Change Your Thoughts, Change Your Life
- 977-211 Software Engineering (International Program)
- 976-601 Research Methodology in Computing (International Program)
- 977-362 Software Verification and Validation (International Program)
- 977-378 Formal Methods in Software Engineering (International Program)

## MSc/PhD Students

- **Mr. Wasupon Tanthavanich (2017-2023)**

**Thesis Title:** *A Framework of Context – Aware Recommender System for Sport Tourists*

- **Miss Suraiya Charoenreh (2017-2022)**

**Thesis Title:** *A Framework of Test Case Generation with Software Requirements Ontology*

- **Miss Thiwatip Sriraksa (2016-2018)**

**Thesis Title:** *An Impact Analysis Framework of Test Cases Based on Changes of Use Case Based Requirement Specification with the Hybrid Testing Generation Approach of Equivalence Class Partitioning with Classification Tree Method*

## INTERNATIONAL JOURNAL ARTICLES

A. Intana, K. Laosen, T.Sriraksa, "An Automated Impact Analysis Approach for Test Cases based on Changes of Use Case based Requirement Specifications," *International Journal of Advanced Computer Science and Applications (IJACSA)*, vol. 14, no. 1, pp. 967-980, January, 2023.

1/2023 Software Engineering, Change impact analysis approach, Test Case, Black-box Testing, Use Case Based Requirement Specification, Combination of Equivalence and Classification Tree Method

K.Laosen, A. Intana, P.Chuaynukul, "Customer Needs Classification from Online Social Media using Bag-of-Concepts Representation", *International Journal on Advanced Science, Engineering and Information Technology (IJASEIT)*, vol. 13, no. 4, pp. 1546-1553, August, 2023.

8/2023 conceptual level analysis, bag of concepts, online social media, customer needs classification

A. Intana, K. Tantayakul, K. Laosen, S.Charoenreh, "An Approach of Test Case Generation with Software Requirement Ontology," *International Journal of Advanced Computer Science and Applications (IJACSA)*, vol. 14, no. 8, pp. 1005-1014, August, 2023.

📅 8/2023 🧠 Software Testing, Software Requirement Specification, Ontology, Test Case, Combination of Equivalence and Classification Tree Method

## INTERNATIONAL PROCEEDINGS

A. Intana and A. Sawedsuthiphan, "STATETest: An Automatic Test Case Generation Framework for State Transition Testing," in *Proc. The 20th International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology 2023 (ECTI-CON2023)*, Nakhon Phanom, Thailand, 2023, pp. 1-4, doi: 10.1109/ECTI-CON58255.2023.10153308.

📅 6/2023 🧠 State Transition Testing, Black-box Testing, Test Cases, Test Case Generation, Automated Software Testing Tool

W. Tanthavanich and A. Intana, "The Development of Running Event Ontology for Sport Tourism in Thailand," in *Proc. The 36th International Technical Conference on Circuits/Systems, Computers and Communications 2021 (ITC-CSCC2021)*, 2021, pp. 1-4, doi: 10.1109/ITC-CSCC52171.2021.9501410.

📅 6/2021 🧠 Ontology, Sport Tourism, Sport Tourist, Running Events

A. Intana, "A Pattern-Based Formal Modelling Framework for Wireless Sensor Networks," in *Proc. The 17th International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology 2020(ECTI-CON2020)*, Phuket, Thailand, 2020, pp. 63-66, doi: 10.1109/ECTI-CON49241.2020.9158327.

📅 6/2020 🧠 pattern-based formal modelling framework, wireless sensor networks, formal modelling patterns

A. Intana, M. Thongthep, P. Thepnimit, P. Saethapan and T. Monpipat, "SYNTest: Prototype of Syntax Test Case Generation Tool," in *Proc. The 5th International Conference on Information Technology 2020 (InCIT2020)*, Chonburi, Thailand, 2020, pp. 259-264, doi: 10.1109/InCIT50588.2020.9310968.

📅 10/2020 🧠 Syntax Testing, Black-box Testing, Test Cases, Software Testing Tool, Regular Expression

A. Intana, "Teaching Requirement Engineering Using Industrial-Infused Project-Based Learning," in *Proc. The 5th International STEM Education Conference 2020 (iSTEM-Ed2020)*, Hua Hin, Thailand, 2020, pp. 82-85, doi: 10.1109/iSTEM-Ed50324.2020.9332770.

📅 11/2020 🧠 Requirement Engineering Education, Industrial-Infused Project-Based Learning, II-PrBL, Case-Based Learning, Industrial Problem-Based Learning

A. Intana and T. Sriraksa, "Impact Analysis Framework of Test Cases Based on Changes of Use Case Based Requirements," in *Proc. The 23rd International Computer Science and Engineering Conference 2019 (ICSEC2019)*, Phuket, Thailand, 2019, pp. 230-235, doi: 10.1109/ICSEC47112.2019.8974699.

📅 11/2019 🧠 Test Cases, Impact Analysis, Equivalence Class Partitioning, Classification Tree Method, Black-box Testing

S. Charoenreh and A. Intana, "Enhancing Software Testing with Ontology Engineering Approach," In *Proc. The 23rd International Computer Science and Engineering Conference 2019 (ICSEC2019)*, Phuket, Thailand, 2019, pp. 186-191, doi: 10.1109/ICSEC47112.2019.8974672.

📅 11/2019 🧠 Test Cases, Requirement Ontology, Software Requirement Specification, Software Testing, Black-box Testing

## NATIONAL PROCEEDINGS

T. Sriraksa and A. Intana, "Adding Effectiveness to Combination of Equivalence Partitioning and Classification Tree Based Testing Technique with Fault Tree Analysis," *2017 - 21st International Computer Science and Engineering Conference*, Bangkok, Thailand, 2017, pp. 348-353.

A. Intana, P. Buranapraphan, J. Pitukdansakul and S. Vongna, "A Prototype of Use Case Development for Supporting Scenario Based Requirement Engineering." *2017 - 9th National Conference on Information Technology (NCIT)*, Bangkok, Thailand, 2017, pp. pp.269-274.

A. Intana, T. Sriraksa, S. Kaewyao, J. Phetrupan and K. Singsom "The Prototype Development of Automatic Test Case Generation for Supporting System and User Acceptance Testing," *2017 - 9th National Conference on Information Technology (NCIT)*, Bangkok, Thailand, 2017, pp. 246-252.

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#### COLLEGE OF COMPUTING

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