

Pin Ng

Division of Science, Engineering and Health Studies (SEHS)

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## Research interests

Formal Concept Analysis  
Model-based Software Testing

## Qualifications

Doctorate, Applying Formal Concept Analysis in Requirements Validation with UML State Machine Model, City University of Hong Kong

Award Date: 4 Oct 2010

Master, M.Phil. (Software Engineering), The University of Hong Kong

Award Date: 28 Nov 1996

Master, MSc Management Science and Operational Research, University of Warwick

Award Date: 16 Jul 1992

Certified Information Systems Auditor (CISA), Information Systems Audit and Control Association

MHKCS, Hong Kong Computer Society

## Research outputs

### Experience of Using Formal Concept Analysis in Supporting Software Testing Activities

Ng, P., 2016, In: International Journal of Research in Engineering and Advanced Technology. 4, 2, p. 117-121

### Requirements Engineering Process Models

Ng, P., 2015, In: International Journal of Research in Engineering and Advanced Technology. 3, 2, p. 154-158

### Evaluating the Impact of Changing Secondary Education Curricula in Hong Kong: A Comparative Study of Science and Technology Sub-degree Students in Generic Competencies Development

So, J. C. H., Ng, P. & Lam, S. Y., 2014, In: Education Practice and Innovation. 1, 1, p. 6-12

### A Formal Approach for Analyzing Test Case Reduction with Concept Lattice

Ng, P., 2013, In: Lecture Notes in Information Technology. 39, p. 153-159

### A Study of Requirements Validation with UML

Ng, P., 2013, In: Asian Journal of Natural & Applied Sciences. 2, 2, p. 107-115

### Applying formal concept analysis in prioritizing model-based test scenario

Ng, P. & Fung, R. Y. K., 2012, In: International Journal of Information Processing and Management. 3, 3, p. 66-75 10 p.

### Model-based Test Scenario Prioritization with Formal Concept Analysis

Ng, P. & Fung, R. Y. K., 2011.

### Incremental Model-based Test Suite Reduction with Formal Concept Analysis

Ng, P., Fung, R. Y. K. & Kong, R. W. M., 2010, In: Journal of Information Processing Systems. 6, 2, p. 197-208

### An incremental approach for model-based test suite reduction using Formal Concept Analysis

Ng, P. & Fung, R. Y. K., 2009, *Proceedings of the 4th International Conference on Ubiquitous Information Technologies and Applications, ICUT 2009*. 5405725. (Proceedings of the 4th International Conference on Ubiquitous Information Technologies and Applications, ICUT 2009).

#### **Application of formal concept analysis in model-based testing**

Ng, P. & Fung, R. Y. K., 2009, *Advances in Software Engineering: International Conference, ASEA 2008, and Its Special Sessions, Sanya, Hainan Island, China, December 13-15, 2008. Revised Selected Papers*. Kim, T., Fang, W. C., Lee, C. & Arnett, K. P. (eds.). p. 110-123 14 p. (Communications in Computer and Information Science; vol. 30).

#### **A Concept Lattice Approach for Model-based Test Suite Reduction**

Fung, R. Y. K. & Ng, P., 2008, In: *Journal of Electronics and Computer Science*. 10, 2, p. 105-112

#### **A Study on the Students' Perception of Adopting Blended Learning at Subdegree Level**

Tsoi, R. H. L. & Ng, P., 2008, p. 78-88.

#### **Model-based test suite reduction with concept lattice**

Ng, P. & Fung, R. Y. K., 2008, *Proceedings of the 2008 Advanced Software Engineering and its Applications, ASEA 2008*. p. 3-8 6 p. 4721302. (Proceedings of the 2008 Advanced Software Engineering and its Applications, ASEA 2008).

#### **A concept lattice approach for requirements validation with UML state machine model**

Ng, P., 2007, *Proceedings - SERA 2007: Fifth ACIS International Conference on Software Engineering Research, Management, and Applications*. p. 393-400 8 p. 4296963. (Proceedings - SERA 2007: Fifth ACIS International Conference on Software Engineering Research, Management, and Applications).

#### **Applying formal Concept Analysis in Requirements Validation with UML State Machine Model**

Fung, R. Y. K. & Ng, P., 2007, In: *International Journal of Computer & Information Science*. 8, 4, p. 550-559

## **Activities**

### **SEHH1034 Information and Communication Technology**

Pin Ng (Subject Leader)

Jan 2023 → May 2023

### **SEHH2242 Object Oriented Programming**

Pin Ng (Subject Leader)

Jan 2023 → May 2023

### **SEHH3143 Software Engineering**

Pin Ng (Subject Leader)

Jan 2023 → May 2023

### **Technical Program Committee, Future of Information and Communication Conference (FICC) 2023, 2-3 November 2023, San Francisco, USA.**

Pin Ng (Committee Member)

2023

### **Technical Program Committee, Intelligent Systems Conference 2023 (IntelliSys 2023) 7-8 September 2023, Amsterdam, The Netherlands**

Pin Ng (Committee Member)

2023

### **YES - Best Company Website Award**

Pin Ng (Judge)

2023

### **YES - Website Design Workshop**

Pin Ng (Speaker)

24 Oct 2022

**8C112-IT Associate in Information Technology**

Pin Ng (Academic Advisor)  
Sept 2022 → Jun 2023

**SEHH1034 Information and Communication Technology**

Pin Ng (Subject Leader)  
Sept 2022 → Dec 2022

**SEHH2242 Object Oriented Programming**

Pin Ng (Subject Leader)  
Sept 2022 → Dec 2022

**SEHH1034 Information and Communication Technology**

Pin Ng (Subject Leader)  
Jan 2022 → May 2022

**SEHH3143 Software Engineering**

Pin Ng (Subject Leader)  
Jan 2022 → May 2022

**Technical Program Committee, Future of Information and Communication Conference (FICC) 2022, 3-4 March 2022, San Francisco, USA.**

Pin Ng (Committee Member)  
2022

**Technical Program Committee, Intelligent Systems Conference 2022 (IntelliSys 2022) 1-2 September 2022, Amsterdam, The Netherlands**

Pin Ng (Committee Member)  
2022

**YES - Best Company Website Award.**

Pin Ng (Judge)  
2022

**YES - Website Design Workshop**

Pin Ng (Speaker)  
26 Oct 2021

**8C112-IT Associate in Information Technology**

Pin Ng (Academic Advisor)  
Sept 2021 → Jun 2022

**SEHH1034 Information and Communication Technology**

Pin Ng (Subject Leader)  
Sept 2021 → Dec 2021

**SEHH2242 Object Oriented Programming**

Pin Ng (Subject Leader)  
Sept 2021 → Dec 2021

**Program Committee Member, FTC 2021 - Future Technologies Conference 2021, 28-29 October 2021, Vancouver, Canada.**

Pin Ng (Committee Member)

2021

**Programme Consultant (IT/Computer Courses), Christian Action**

Pin Ng (Consultant)

2021 → 2022

**Technical Program Committee, IntelliSys 2021 - Intelligent Systems Conference, 2-3 September 2021, Amsterdam, The Netherlands.**

Pin Ng (Committee Member)

2021

**Program Committee Member, FTC 2019 - Future Technologies Conference 2019, 14-15 November 2019, San Francisco, United States.**

Pin Ng (Committee Member)

2019

**Program Committee Member, Future of Information and Communication Conference (FICC 2018), April 2018, Singapore**

Pin Ng (Committee Member)

2018

**Technical Program Committee, Computing Conference 2018, July 2018, London, United Kingdom**

Pin Ng (Committee Member)

2018

**Editorial Committee, The 5th International Conference on Digital Contents and Applications (DCA 2016), Dec 2016, Jeju National University, South Korea**

Pin Ng (Editor)

2016

**International Journal of Digital Contents and Applications (Journal)**

Pin Ng (Member of editorial board)

2015

**The 4th International Conference on Digital Contents and Applications (DCA 2015) (Event)**

Pin Ng (Editor)

2015

**Session Chair, International Conference on Advancements in Computing Technology (ICACT2011), Jeju Island, South Korea**

Pin Ng (Chairperson)

Dec 2011

**Information Systems Audit and Control Association (ISACA)**

Pin Ng (Member)

2006 → 2025

**Hong Kong Computer Society (HKCS) (External organisation)**

Pin Ng (Member)

2005 → 2025

## **Prizes**

**Best Research Paper and Presentation Award in the ACIS International Conference on Software Engineering Research, Management, and Applications (SERA)**

Ng, Pin (Recipient), 2007

