

Curriculum Vitae



Personal Information

Name Mr.Pongwit Promsuwan

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Age 40

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Education

2007 – 2011 MM. in Industrial Engineering, Kasetsart University, Bangkok, Thailand

2001 – 2006 B.A. in Electrical Engineering, Naresuan University, Phitsanulok, Thailand

2019 – 2022 Ph.D. in Environmental Design, Kanazawa University, Kanazawa, Ishikawa, Japan

Research Experience

1) **University of Phayao**, Phayao, Thailand

Research Achievement

• **The Analyzing and Creating of Assam Tea Production Cost using Linear Programming Model: The Case Study of Srinapan – Tavan Small and Medium Enterprises, Nan.**

- Analyzing the production cost of Assam tea, including labor costs.
- Create a linear programming model for estimating the minimum production cost of Assam tea.
- Manufacturers can use the model to consider optimal planning decisions for the next year.

- Gave a presentation at the Industrial Engineering Network Conference 2015, 6 - 7 August 2015, Bangkok, Thailand.

2) **Kanazawa University**, Kanazawa, Ishikawa, Japan

Doctoral Thesis

- **A Study of the Railway Network Critical Evaluation by Multiple Criteria: Case Studies of Inter-city and Urban Railway Networks in Japan.**

- Analyze the critical node or link within both inter-city and urban railway networks on the topology view by multiple criteria.

- The main objective is to evaluate the critical or vulnerable stations and rail sections that will have extensive effects if it is disrupted or cut off.

- The main criteria for the research are centralities analysis, global efficiency-based vulnerability, and algebraic connectivity-based vulnerability.

- Help plan the preventive strategy, such as managing the priority of important rail sections that need to be inspected, maintained, and repaired.

3) **Kasetsart University**, Bangkok, Thailand

Master's Thesis

- **A Matrix Partitioning Technique for Distributed Solving Large Linear Dense Equations.**

- Investigated the distributed computing processes for large linear dense equations in the matrix partitioning form.

- Aim to reduce the constraints of Random-Access Memory (RAM) and processing time when compared with the process by a single computer.

- Used Block Gauss Elimination with back substitutions to formulate a project scheduling decision problem for distributed processing with parallel computers.

- Gave a presentation at the ANSCSE 14 Conference, 23 - 24 March 2011, Chiang Rai, Thailand.

4) **Naresuan University**, Phitsanulok, Thailand

Senior Project

- Studied and build DC – DC Boost Converter.

Working Experience

Department of Industrial Engineering, School of Engineering, University of Phayao, Phayao, Thailand

Lecturer, 2012 – Present

- Teach Industrial Materials subject to engineering students.

- Teach Maintenance Engineering subject to industrial engineering students.
- Teach Computer Application for Industrial Engineering subject to industrial engineering students.
- Teach Industrial Engineering Laboratory subject to industrial engineering students.

Seminar and Training Experience

- **Advance Finite Element Method for Design Engineering course**, organized by Design & Engineering Consulting Service Center, National Science and Technology Development Agency, 30th May – 2nd June 2016, Chiang Mai, Thailand.

- **Rail Timetabling course**, joint organized by Faculty of Engineering, Mahidol University and Newcastle University, 27th February – 1st March 2017, Nakhon Pathom, Thailand.

- **Applied Statistics for Rail System Performance course**, joint organized by Faculty of Engineering, Mahidol University and Newcastle University, 27th March – 28th March 2017, Nakhon Pathom, Thailand.

- **Rail Freight Transport and Logistics**, joint organized by Faculty of Engineering, Mahidol University and Newcastle University, 22nd May – 26th May 2017, Nakhon Pathom, Thailand.

Skills

Software: MATLAB, Microsoft Excel, What's Best!, SPSS

Language: English (6.0 IELTS Score)

Publication

Pongwit Promsuwan, Anothai Klakankhai, Aekachai Pantong and Parawee Thananchai, The Analyzing and Creating of Assam Tea Production Cost using Linear Programming Model: The Case Study of Srinapan – Tavan Small and Medium Enterprises, Nan., Oral presented in the Industrial Engineering Network Conference 2015, 6 - 7 August 2015, Bangkok, Thailand.

Pongwit Promsuwan and Peerayuth Charnsethikul, A Matrix Partitioning Technique for Distributed Solving Large Linear Dense Equations. Oral presented in the ANSCSE 14 conference, 23 - 24 March 2015, Chiang Rai, Thailand.

Pongwit PROMSUWAN, Shoichiro NAKAYAMA, Hiromichi YAMAGUCHI, Shun-ichi KOBAYASHI, Comparison between Algebraic Connectivity-Based and Global Efficiency-Based Vulnerability for Railway Topology Analysis: A Case Study of Kyushu, Japan., 2022, *Asian Transport Studies*, 8, 100074, pages 1 – 12. <https://doi.org/10.1016/j.eastsj.2022.100074>

Reference

1) Assoc. Prof. Peerayuth Charnsethikul (Master's Thesis Advisor)

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