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### Qualifications

2016	Doctor of Philosophy in Industrial and Systems Engineering King Mongkut's University of Technology, Thailand Thesis: "Causal Relationship Analysis of Performance Measurement for Internal Hospital Supply Chain"
2001	Graduate Diploma in Information Technology, University of Technology, Sydney
2000	Master of Engineering Management, University of Technology, Sydney
1997	Bachelor of Engineering in Industrial Engineering, King Mongkut's University of Technology, Thailand

### Continuing Education

2018	Green Productivity, Asian Productivity Organization
2004	Executive Certificate in Supply Chain Management, Assumption University
1997	Logistics Engineering, The Siam United Steel (1995) Co., Ltd., Thailand

### Employment

2005-present	Lecturer, Department of Industrial Engineering, Mahidol University, Thailand
2005-2007	Part time Lecturer, Graduate School, Stamford International University, Thailand
2004-2005	Lecturer, Department of Industrial Management, Assumption University of Thailand
2000-2003	Service Superintendent, Cash Office Staff, Woolworths Ltd. (Crows Nest)
1997-1999	Logistics Engineer, The Siam United Steel (1995) Co., Ltd., Thailand

### Extra-curricular Activities

2000	Thai Student Association of UTS, University of Technology, Sydney
1994-1995	Engineering Student Association, King Mongkut's University of Technology Thonburi
1990-1991	Student Board of Committee, Triam Udom Suksa School, Thailand

### Professional society

- Council of Engineering of Thailand, Member
- Institute of Industrial and Systems Engineers, Member

### Teaching Areas

- Industrial Work Study
- Engineering Economic
- Supply Chain and Logistics Management
- Business Process Improvement
- Financial Management
- Industrial Management
- Project Management

## Research Interests

- Supply Chain and Logistics Management
- Work Design and Work Measurement
- Process Improvement
- Human Factors in Industries
- Multi-criteria Decision Analysis
- Application of Industrial Engineering in service industries

## Most Recent Research

- Reinforcing Non-University Sector at the Tertiary Level in Engineering and Technology to Support Thailand Sustainable Smart Industry, Co-funded by the Erasmus+ Programme of the European Union.
- นักวิจัย โครงการการจัดการโลจิสติกส์ควบคุมอุณหภูมิสำหรับสิ่งส่งตรวจทางห้องปฏิบัติการและวัตถุดิบสำหรับการผลิตผลิตภัณฑ์ทางการแพทย์ขั้นสูงด้วยเทคโนโลยีอินเทอร์เน็ตของสรรพสิ่ง , หน่วยบริหารและจัดการทุนด้านการเพิ่มความสามารถในการแข่งขันของประเทศ (บพข.), 2565
- นักวิจัย โครงการห่วงโซ่คุณค่าและโอกาสทางการตลาดไม่เศรษฐกิจของประเทศไทย, สำนักงานการวิจัยแห่งชาติ (วช.), 2563
- Study and Test of a Virtual Hospital Model by Supply Chain Management and Logistics in Primary Care Networks, 2020 Flagship Research Funds, National Research Council of Thailand.
- Design and Development of a Healthcare Electronic Information Exchange System for hospitals, 2019 National Research Funds.
- Value Chain and Market Opportunities for Thai Economic Wood, 2019 Agricultural Research Development Funds.
- Preliminary study of logistics system in Bangkok and its vicinity towards Asian Metropolis Phase 2, 2019 National Research Funds
- Development of National Medicinal Products Catalogue Database and Product Information Leaflets for Patients, 2018 National Research Funds.
- Development of Thai Standard Codes and Databases for Traditional Medicines and Herbal Dietary Supplements, 2017 National Research Funds.
- Characteristics of labor movement in accordance with the opening of Dawai port in Myanmar, 2015 Thailand Research Funds.

## Academic Services

- Business process improvement for healthcare logistics activities, Phramongkutklao Hospital.
- Green Supply Chain and Logistics Management Performance Indicator, Ministry of Industry.
- Standard Procedures for Temperature-Controlled Freight Transport Operations by Road, Ministry of Transportation.
- Green Logistics and Supply Chain Management for Export Industry Supply Chain, Ministry of Industry.
- Business process improvement for healthcare logistics activities, Lerdcin Hospital.
- Business process improvement for healthcare logistics activities, Rajvithi Hospital.
- Supply Chain and Logistics Management for Agricultural Products in Border Economic Zone (Responsible for Chanthaburi province), Ministry of Industry
- Green Logistics and Supply Chain Management for Rubber Supply Chain, Ministry of Industry.
- Hospital logistics health check for Chulalongkorn Memorial Hospital.
- Internal Logistics Process Improvement for Medical Products, Ramathibordi Hospital.
- Patient Flow Analysis for Somdech Phra Debaratana Medical Center, Ramathibordi Hospital.
- Logistics Improvement for SMEs, Thailand Industrial Foundation.
- Logistics Mapping and Productivity Costing for SMEs, Thailand Industrial Foundation.
- Perishable agricultural products transportation for energy reservation, Ministry of Energy.
- The study of Pediatrics' Residents' work, Ramathibordhi Hospital.

## Guest Speakers

- "Logistics in Hospital and Process Improvement", Sirindhorn Collage of Public Health
- "Business Process Improvement and Performance Measurement in Hospitals", Praboromarajchanok Institute for Health Workforce Development, Ministry of Public Health

- “Business Process Analysis”, Ramathibordhi Hospital
- “Logistics Management for middle management”, Commission on Higher Education
- “Production planning and control for Small and Medium Enterprise”, The Federation of Thai Industries
- “Hospital safety environment from Engineering viewpoint”, Mahidol University

### Most Recent Publications

- ชยพล ผู้พัฒน์, วันวิสา ต่วนตระกูลศิลป์, วิรัชญา จันทายเพ็ชร และ ดวงยศ สุภิกิตย์. (2567). แนวทางการจัดการการขนส่งด้วยโลจิสติกส์ควบคุมอุณหภูมิสำหรับสิ่งส่งตรวจเพื่อสร้างความแม่นยำในการวินิจฉัยโรคได้อย่างมีประสิทธิภาพ, **วารสารสังคมศาสตร์และวัฒนธรรม**, ปีที่ 8 ฉบับที่ 1, หน้า 335 – 347.
- Chanpuypetch, W., Supeekit, T., and Niemsakul, J. (2023). IoT-based business process management for temperature-controlled logistics system of laboratory specimens. **Proceedings of the 37th European Conference on Modelling and Simulation**, June 20-23 2023, Florence, Italy, pp. 359-365.
- Koondee, P., Niemsakul, J., Supeekit, T., Somboonwiwat, T., and Chanpuypetch, W., 2023. Forecasting and analysing the gap between Thailand's wood pellet supply and global demand. **Engineering and Applied Science Research**, 50(2), pp.107-120.
- Jaisankad, R., Tunyaplin, S., Supeekit, T., & Chanpuypetch, W., 2022. Prioritising customer-focused KPIs for home furniture delivery and assembly service using AHP: A case study of a multinational company in Thailand. **Engineering and Applied Science Research**, 49(6), pp.819–827.
- วิรัชญา จันทายเพ็ชร, จิรวรรณ เนียมสกุล, พูลพัฒน์ พัททวีพงศ์, และ ดวงยศ สุภิกิตย์. (2565). การประยุกต์ใช้แนวคิดระบบการผลิตแบบลีนในการปรับปรุงกระบวนการผลิต: กรณีศึกษา บริษัทผลิตท่อเหล็กหล่อ, **วารสารวิจัยและพัฒนา มจร.**, 45(4), หน้า 437-456.
- Koondee, P., Supeekit, T., and Tunyaplin, S., and Chanpuypetch, W., 2022. Forecasting and analyzing the gap between Thai's wood pellets supply and global demand. **Proceedings of the 16th International Congress on Logistics and SCM Systems (ICLS2022)**, 28 – 30 August 2022, Khon Kaen, Thailand, Paper ID 20.
- ดวงยศ สุภิกิตย์, สุรทิน ธัญญะผลิน, พูลพัฒน์ พัททวีพงศ์ และ วิรัชญา จันทายเพ็ชร. (2564). การสำรวจทัศนคติและการรับรู้ต่อกฎหมายและมาตรฐานที่เกี่ยวข้องกับการปลูกไม้เศรษฐกิจ, **การประชุมการป่าไม้ประจำปี พ.ศ.2564 “84 ปี วิชาการป่าไม้ไทยเพื่อปวงชน”**, หน้า 369-379.
- Thanawatchaikul, T. and Supeekit, T., 2020, “Causal Relationship Study among Total Quality Management Criteria for Logistics Service Provider Business Excellence”, **Proceedings of the 2020 IEEE 7th International Conference on Industrial Engineering and Applications**, Bangkok, Thailand, 16-18 April.
- Somboonwiwat, T., and Supeekit, T., 2019, “Strategic Procurement Process for Multiple Items in a Supply Chain”, **Proceedings of the 33rd International ECMS Conference on Modelling and Simulation**, Caserta, Italy, 11-14 June.
- Somboonwiwat, T., Ratcharak, C., and Supeekit, T., 2017, “Hybrid Flow Shop Scheduling of Automotive Parts”, **Proceedings of the 31st European Conference on Modelling and Simulation**, Budapest, Hungary, 23-26 May.
- Boonthonsatit, G., and Supeekit, T., 2017, “CAUSA-L Linkages to Systematically evaluate supply chain performance (CALLS) for SMEs in Thailand”, **Proceedings of 2017 the 6th International Conference in Industrial Technology and Management**, Cambridge, UK, 7-10 March.
- Supeekit, T., Somboonwiwat, T, and Kritchanchai, D., 2016, “DEMATEL-modified ANP to evaluate internal hospital supply chain performance”, **Computers & Industrial Engineering**, Vol. 102, pp. 318-330.
- Supeekit, T., Somboonwiwat, T., and Kritchanchai, D., 2015, “Linking hospital supply chain processes and performance to identify key performance indicator”, in M. Gen, K. J. Kim, X. Huang & Y. Hiroshi (Eds.), **Industrial Engineering, Management Science, and Applications 2015, Lecture Notes in Electrical Engineering**, Vol. 349, pp. 927-938: Springer Berlin Heidelberg. (SJR 0.12).
- Somboonwiwat, T., Supeekit, T., and Punta, P., 2015, “Improving supply chain operations applying green supply chain assessment and FMEA for can packaging industry”, in M. Gen, K. J. Kim, X. Huang & Y. Hiroshi (Eds.), **Industrial Engineering, Management Science, and**

**Applications 2015, Lecture Notes in Electrical Engineering**, Vol. 349, pp. 575-584:  
Springer Berlin Heidelberg. (SJR 0.12).

- Supeekit, T., Somboonwiwat, T., and Kritcharnchai, D., 2014, "Causal relationship of supply chain efficiency and patient safety in measuring internal hospital supply chain performance applying DEMATEL", **Proceedings of the 44<sup>th</sup> International Conference on Computers & Industrial Engineering**, Istanbul Turkey, 14 – 16 October.