# CURRICULUM VITAE

# Nathasit Gerdsri, Ph.D.

Educator, Researcher, Consultant, Technologist and Entrepreneur



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# **Professional Profile**

Eager to diffuse the knowledge and enhance the Body of Knowledge (BOK) in engineering, technology and innovation management helping educators and practitioners to appropriately exploit technologies by utilizing a unique combination of my academic and industry experience.

- Strong background in both technology management and engineering combining with work experience in high-tech industry
- Ability to apply analytical approach for research development and problem solving
- International experience in a multicultural environment and tight relationship with the research and consulting community

# **Education Background**

• Ph.D. in Systems Science/Engineering and Technology Management

Portland State University, Portland OR, U.S.A

- O Dissertation Title: "An Analytical Approach to Building a Technology Development Envelope for Roadmapping of Emerging Technologies"
- Brief Description: A new concept and methodology for identifying the optimum path in developing technology strategies by combining with business strategies and/or policy decisions
- Dual Master Degrees in Engineering Management and Mechanical Engineering Portland State University, Portland OR, U.S.A
- **B.S. in Mechanical Engineering**Chulalongkorn University, Bangkok, Thailand

# **Professional Development**

- Energy Literacy for Young Executive 2015 (วพม-1)
  - Thailand Energy Academy (วิทยาลัยพลังงาน), Bangkok Thailand
- Strategic Innovation for Businesses in Asia (SIBA 2014) MIT Sloan School of Management, MA U.S.A.
- Executive Development Program (EDP 2012)
  Thai Listed Companies Association (TLCA), Bangkok Thailand

### **Academic Experience**

# College of Management, Mahidol University, Bangkok Thailand

- Associate Professor of Technology and Innovation Management
  - Offered a graduate course on Technology and innovation strategy, Management of innovation, Project Management
- **Deputy Dean for Academic Programs** (January 2014-2017)
  - AACSB accreditation with the focus on Assurance of Learning (AOL)
  - 4+1 program development (integrating undergraduate and graduate program)
  - Curriculum maintenance and update
- **Program Chair of New Technology Venture** (January 2009 2013)
- Program Chair of Management and Strategy (December 2006 2013)
- Assistant Professor of Technology and Innovation Management (September 2005-December 2007)

# Europa Institute of MBA, Universität des Saarlandes, Saarland, Germany

- Visiting Professor (May 2007 2012)
  - Developed and offered a graduate course on MANAGEMENT OF STRATEGIC CHANGES

# Department of Engineering and Technology Management, Portland State University, Portland, OR USA

- Visiting Assistant Professor (June 2004 2006)
  - Developed a new course on TECHNOLOGY ROADMAPPING (graduate level)
  - Offered a graduate course on DECISION MAKING and gave special lectures in various courses: INNOVATION MANAGEMENT, STRATEGIC TECHNOLOGY MANAGEMENT, TECHNOLOGY FORECASTING, INTERNATIONAL TECHNOLOGY MANAGEMENT
  - Engaged in the ETM research and Technology Management Research Center (TMRC) activities in the areas of technology planning, forecasting, evaluation, and assessment

# Associate editor of International Journal of Innovation and Technology Management (IJITM) (2014-current)

Editorial board member of IEEE Transaction on Engineering Management (2018-current) Editorial board member of KMUTT R&D Journal in Thailand (2014–current)

### **Industry Experience**

- Managing Director and Founder of InsightTRM Corp. (2015-current)
  - Coach and consult the management team of many organizations to effectively manage technologies to drive innovation for competitiveness of their organization
- Assistant Research Program Coordinator (Graduate Intern): INTEL CORPORATION, Portland, OR (June October 2001)
  - Researched and developed the advanced technologies for the new interconnect platform architecture of enterprise computer products
  - Developed the analytical technological trend-forecasting model to detect the technological changes and capture the pace of emerging technology using patent and publication information

- **Technology Developer** (Graduate Intern): INTEL CORPORATION, Portland, OR (June 2000 January 2001)
  - Investigated and conducted the feasibility study on integrating advanced cooling technologies to advanced printed circuit boards
  - Owned six invention disclosures as known as Intel's internal patents in "A design to enhance heat dissipating capacity of printed circuit boards (PCB) by using a primary integrated flat-plate heat pipe attached to the bottom surface of finished PCB or sandwiched between two finished PCBs."
  - Developed the competitive analysis on interconnect components for the advanced printed circuit boards
- Mechanical Project Engineer: CH. KARNCHAENG (Public) Co., Ltd., Bangkok, Thailand (April 1995 September 1996)

Managed, in a team, the construction of \$400 million Second Stage Expressway Project in Bangkok. Supervised engineers and work crew of 15. Scheduled the construction plan as well as inspected and approved the installation of mechanical systems such as storm drainage, parapets and noise barriers. The project was completed two months ahead of schedule and on cost

# Consulting/Training/Coaching/Facilitation Related Experience

Dr. Gerdsri carried out his research works in several areas to business communities by providing academic training courses and project consultancies for leading organizations like APEC Center of Technology Foresight, PTT Public Company, PTTGC Public Company, Siam Cement Group, Siam Makro, Thailand National Science and Technology Development Agency, Thailand Science Technology and Innovation Policy Office, Thailand Automotive Institute, etc.

Area 1: Strategic Management of Technology and Innovation

- SCG Building Materials, Thailand
  - Consulted a group of technology management team to plan for developing new products and preparing technological capabilities
- SCG-Middle Management Development Program, The Siam Cement Group, Thailand Trained a group of technology managers and management team on the issues related to technology management
- PTT-Research Technology Center, PTT Public Company Limited, Thailand
  - Gave a short course on "R&D project selection", "Foresight" for technology-intensive organizations
  - Trained a group of researchers at PTT-Research Technology Institute on the issues related to management of technology and technology roadmapping
  - Reviewed the PTT-Research & Technology Institute's roadmap

# Area 2: Technology Planning and Roadmapping

### • APEC Center for Technology Foresight, Thailand

- Organized the series of special seminars and workshops on "Using Roadmaps to Drive Your Organization's Future", to educate the public and government research agencies in technology roadmap development during 2006-2008. The clients include Thai Plastic, Siam Cement, Thai Polyethylene, Siam Research and Development, Premier Group, Betago, Electricity Generation Authority of Thailand (EGAT), etc.
- Facilitated a group of international experts involving in the healthcare management and technology development for medical applications to craft a scenario used to portray the future development and develop a technology roadmap to combat emerging infectious diseases (The activities were organized in Taipei and Tokyo by National Taiwan University Hospital and National Institute of Science and Technology Policy NISTEP, respectively during 2006-2007).

 Facilitated a group of international experts involving in the development of hydrogen energy applications to develop a technology roadmap representing the uses of future energy in different APEC economies. (The activities were organized in Vancouver, Canada with the collaboration of Industry Canada during 2005)

# • SCG Building Products Co., Ltd., The Siam Cement Group, Thailand

Consulted and coached a group of managers to develop the company's product-technology roadmap

### • SCG Chemicals Co., Ltd., The Siam Cement Group, Thailand

Trained a group of managers and engineers to understand the development process of technology roadmapping

# • Siam Pulp and Paper Public Company Limited, The Siam Cement Group, Thailand Trained a group of managers and engineers to understand the development process of technology roadmapping

## • Petroleum Institute of Thailand, Bangkok, Thailand

Facilitated a technology roadmapping session as a part of the Technology Foresight Workshop for Oil/ Petrochemical Industry Managers around South East Asia region

# • Precise International Co., Ltd., Thailand

Consulted and coached a group of managers and engineers to develop the company's product-technology roadmap

# The Botanical Garden Organization, Ministry of Natural Resources and Environment, Thailand

Consulted and coached a group of managers and botanical researchers to develop the organization's strategic roadmap guiding the organization to become the leading botanical gardens in the ASEAN.

## • PTT Global Chemical (PTTGC) Public Company Limited, Thailand

Consulted and coached a group of managers, researchers, and business developers to develop the company's product-technology roadmap and link into the company's research roadmap

# • Siam Makro (MAKRO) Public Company Limited, Thailand

Consulted a group of executives to develop the company's innovation roadmap and link with the corporate strategy

# • Syntec Construction (SYNTEC) Public Company Limited, Thailand

Consulted and coached a group of executives and construction site managers to promote innovation and develop the roadmap guiding to an innovative organization

# Area 3: Project Management

### • CiCom Thai-Japanese Management Development Program, Thailand

Provided the project management training sessions to middle managers who work for Japanese firms in Thailand

# • Leading hospitals (including Siriraj Hospital, Ramathibodi Hospital, etc.)

Organized a series of training and workshop sessions on Project Management for hospital staff engaging physicians, nurses, and administrative staff who play a major role in advancing medical services and research activities

### • MU-Advanced Management Program (AMP), Mahidol University

Organized a series of training and workshop sessions on Project Management for the top management of Mahidol University including Deans, Directors and Senior Administrators who play a major role in advancing teaching, research, and service activities

# • National Science and Technology Development Agency, Thailand

Trained a group of project managers and researchers across the four leading researcher units; NECTEC, MTEC, BIOTEC and NANOTEC, to effectively use project management approach in accomplishing research and development activities within limited time and resources

### Industrial Technology Assistant Program (ITAP), NSTDA, Thailand

Trained a group of project managers and engineers to effectively use project management approach in accomplishing the assignments within limited duration tasks

### **Research Related Experience**

My research interests are in the area of technology roadmapping, strategic decision making, innovation and emerging technology management, technology forecasting and foresight, technology assessment and evaluation, technology transfer, R&D management, project management, international management related issues, techno-economics, and engineering economic analysis.

# **List of Research Projects with Supporting Funds** 2018-9

- Explore the policy mechanisms to promote and enhance the capabilities of Innovation Driven Enterprises (IDE) in Thailand by applying open innovation approach

  Funding agency: Thailand National Science Technology and Innovation Policy Office

  Scope: Unveil the challenges and difficulties many enterprises (large, medium, and small) are facing in enhancing their innovation capabilities, Explore the possibilities to overcome those challenges, Identify potential policy mechanisms and recommendations
- Development of TCELS's strategic technology roadmap on medical robotics and medical devices 2018-2022

<u>Funding agency</u>: Thailand Center of Excellence for Life Sciences (TCELS) <u>Scope</u>: Design the framework for a strategic technology roadmap on medical robotics and medical devices to guide and serve TCELS's strategic mission in 2020, Facilitate the analysis process to determine the strategic targets for R&D activities by working with TCELS researchers and TCELS's affiliated researchers.

2018

**Development of Capability Assessment Model for Business Incubators in Thailand**Funding agency: Thai Business Incubators and Science Parks Association (ThaiBISPA)
Scope: Develop a framework for assessing capabilities of business incubators. Conduct a field study, Analyze the results and Make policy recommendations

2017

Monitoring the Development Status of National Innovation System (NIS)
 Funding agency: Thailand National Science Technology and Innovation Policy Office
 Scope: Explore and analyze the development of National Innovation System, Identify the strategic gaps or missing linkages, Propose policy recommendations

2016

Assessment Framework on Capability Development for Innovative Organizations
 <u>Funding agency</u>: Thailand National Innovation Agency (NIA) and Stock Exchange of
 Thailand (SET)

<u>Scope</u>: Research key characteristics of being an innovative organization, Design the assessment framework, Conduct field studies, Facilitate the analysis process.

2016

 Development of MTEC's Strategic Roadmap Guiding Mission-driven Research Activities

<u>Funding agency</u>: Thailand National Metal and Materials Technology Center (MTEC) <u>Scope</u>: Design the framework for a mission-driven roadmap, Facilitate the analysis process to determine the strategic targets for R&D activities by working with MTEC lead researchers.

# 2015 Economic Evaluation of National Funded Research Projects (A Case Study of Mahidol University)

Funding agency: Mahidol University

<u>Scope</u>: Assess the economic value of the research projects funded by the National Research University Program (NRU)

#### 2014-5

• Development of National Innovation System (NIS) for Materials Technologies

Funding agency: Thailand National Science Technology and Innovation Policy Office

Scope: Analyze and propose the policy recommendations to strengthen the development of National Innovation System for key materials technologies including metal, ceramics, rubber, polymer, as well as composite materials.

### 2013

• Strategic Roadmaps for Six Leading Industries in Thailand

<u>Funding agency</u>: Thailand National Science Technology and Innovation Policy Office <u>Scope</u>: Develop a framework and analyze to develop industry roadmaps for six leading industries specified by Thailand Management Association (TMA) including automotive, agricultural and food development, healthcare, tourism, and logistic.

#### 2012

 Assessment of Capability Building Supporting Research and Development of Vaccine in Thailand

<u>Funding agency</u>: Thailand Center of Excellence for Life Sciences (TCELS)

<u>Scope</u>: Develop a framework for assessing capabilities supporting vaccine R&D activities.

Assist with the team from Tropical Medicine and Public Health of Mahidol University to conduct a field study, analyze the results and make policy recommendations

### 2011-12

• Innovation Capabilities and Linkages of the Thai-Leading Industries (Automotive, Agricultural/ Food, and Creative Services)

Funding agency: Japan International Cooperation Agency (JICA)

<u>Scope:</u> Lead the research unit to explore how automotive firms develop their innovation capabilities and linkages with research institutes and universities.

#### 2009-11

• Sufficiency Economy Leadership Project-SELP (Phase II)

Funding agency: Thailand Research Fund (TRF)

<u>Scope:</u> Lead one of sub-research unit to explore how the business approaches and operations at SCG Group, Co.,Ltd. are fitted into the context of sufficiency economy leadership.

### 2009-10

• A Technology Roadmap Supporting the Future Development of Thai Automotive Industry 2010-2020

<u>Funding agency:</u> Joint fund between Thailand Automotive Institute (TAI) and National Metal and Materials Technology Center (MTEC), National Science and Technology Development Agency (NSTDA), Thailand

 $\underline{\text{Scope:}}$  Research and consult to build a roadmap supporting the future development of automotive industry in Thailand

### 2009-10

• A R&D Blueprint for Biomedical Engineering in Thailand

<u>Funding agency:</u> National Electronics and Computer Technology Center (NECTEC), National Science and Technology Development Agency (NSTDA), Thailand

<u>Scope:</u> Examine the opportunities and challenges in excelling the research and development capabilities in the area of biomedical engineering and develop a master plan to support

#### 2008-9

# • Generating Technological Intelligence

Funding agency: CMMU Internal Research Grant

Scope: Explore the use of Bibliometric analysis and text mining on publication and patent databases to generate a warning signal catching the emergence of new technologies so that a technology-driven company can consider them and effectively adjust their strategic technology plan in advance

#### 2007-8

# • Sufficiency Economy Leadership Project-SELP (Phase I)

Funding agency: Thailand Research Fund (TRF)

<u>Scope:</u> Lead one of sub-research unit to explore how the business approaches and operations at SCG Group, Co.,Ltd. are fitted into the context of sufficiency economy leadership.

### 2006-7

# Technological Capability Assessment of Thai Automotive Industry

<u>Funding agency:</u> National Science and Technology Development Agency (NSTDA), Thailand

<u>Scope</u>: Develop a framework for assessing technological capability of automotive industry, conduct a field study, analyze the results and make policy recommendations

# • A Roadmap of Electronics, Computer, Telecommunication and Information Technology (ECTI) for Prevention and Management Emerging Infectious Diseases (EIDs)

<u>Funding agency:</u> National Electronics and Computer Technology Center (NECTEC), National Science and Technology Development Agency (NSTDA), Thailand

<u>Scope</u>: Research and consult to build a roadmap for the development of electronics, telecommunication, computer, and information technologies to combat emerging infectious diseases in Thailand

### 2005-7

### Approach and Process for the Implementation of Technology Roadmapping

<u>Funding agency:</u> partly using the fund from the technology roadmapping project with the Cementhai Building Products Co.,Ltd.

<u>Scope:</u> Determine an effective TRM implementation process and approach as well as research to develop an analysis tools for construct and maintain a roadmap

### Other projects

- Development of a decision model helping one company to select the most strategic-fitted IT network technology for the company
- Case Study for the selection of RFID implementation strategy for one of the retail company in U.S.
- Study on the evaluation of IT search engine for one of the e-commerce company

### Selected Tutorials, Scholarly Presentations, and Keynote Speakers

- Invited to give a talk at Asia-Pacific Roadmapping Meeting, March 2019, Tokyo, Japan
- Invited to join the "Meet the Editor" to represent the International journal of Innovation and Technology Management at the 2018 Asia-Pacific Decision Science Institute International Conference (APDSI), Bangkok, Thailand
- Joined the expert panel discussing the issues on how technology and innovation drive to sustainable development at the 8th International Conference on Sustainable Collaboration in Business, Technology, Information and Innovation (SCBTII) in Indonesia, July 2017.
- Joined the panel of journal editors addressing the issue of "Publication in technology management", at 2016
   Int'l Conference on Management of Innovation and Technology (ICMIT), Bangkok Thailand
- Invited for a special lecture on the topic of "Technology Roadmapping" to a group of industrial managers and entrepreneurs. The event was sponsored by Dept of Industry Promotion, Thailand under the project of Sustainable Innovative Management SIM on June 27, 08 as well as to a group of Thai-entrepreneurs on December 14, 2007, Bangkok, Thailand.
- Invited to give a talk on "Introduction to the Concept of Technology Roadmap" at *APEC-Technology Roadmap Workshop on Converging Technologies to Combat Emerging Infectious Diseases*, National Taiwan University Hospital, October 24, 2007, Taipei, Taiwan.
- Delivered a tutorial on "Measuring a Strategic Value of Technologies", presented at Portland International Conference on Management of Engineering and Technology (PICMET), August 2007, Portland, OR USA
- Invited to give a talk on "Linking Scenario Planning to Technology Roadmapping", APEC-Converging Technologies to Combat Emerging Infectious Diseases (EID): Scenario Workshop, February 2007, Phang-Nga, Thailand
- Delivered a tutorial on "Keeping a Roadmap Alive", presented at Portland International Conference on Management of Engineering and Technology (PICMET), August 2005, Portland, OR USA
- Delivered the presentation on a technology roadmap of emerging electronic cooling technologies presented at the 2005 annual IAPG Mechanical Working Group meeting at Air Force Research Lab, Wright-Patterson, Dayton, Ohio during May 24-25, 2005. The IAPG is a federal membership organization that seeks to facilitate the exchange and transfer of information to increase the effectiveness of the interagency advanced power program. The IAPG is sponsored by the U.S. Air Force, Army, Navy, Department of Energy and NASA.
- Invited to give a talk on "Technology Roadmapping", APEC Center for Technology Foresight and Thailand National Science and Technology Development Agency (NSTDA), August 2004, Bangkok, Thailand.

### **Licenses & Professional Affiliations**

- Ownership of six invention disclosures with INTEL Corporation
- Engineer-In-Training, registered Oregon license since 1999
- Thai Professional Engineers, registered license since 1995
- Member of IEEE Technology Management Section (Thailand Chapter) since 2010
- Member of Institute for Operations Research and the Management Sciences (INFORMS), American Society of Mechanical Engineers (ASME), and American Society of Heating and Air-Conditioning Engineers (ASHREA)

# **Public Services**

- Served as the member of working group on risk management appointed by Thailand Professional Qualification Institute during June 2017-current. (คณะทำงานติดตามและกำกับการบริหารจัดการความ เสี่ยงของสถาบันคุณภูฒิวิชาชีพ)
- Served as the member of working group to setup the national framework guiding the future development of materials technology appointed by Thailand National Science Technology and Innovation Policy Office during 2013-6. (คณะทำงานจัดทำกรอบนโยบายการพัฒนาเทคโนโลยีวัสดุของประเทศไทย 2557-2566)
- Served as the member of subcommittee on the development of technology platforms for automotive industry in Thailand appointed by the Prime Minister Office during 2007-9.

(คณะอนุกรรมการเพื่อพัฒนาเทคโนโลขียานขนต์และเทคโนโลขีส่วนฐานของขานขนต์ เพื่อผลักคันแผนกลยุทธ์ด้านวิทยาศาสตร์และเทคโนโลขีแห่งชาติ ตามคำสั่งสำนัก นาขกรัฐมนตรีที่ 71/2550 ลงวันที่ 12 มีนาคม 2550)

# **Awards and Honors**

- Mahidol University Outstanding Research Award 2017
- CMMU Teaching Award-07, College of Management, Mahidol University, January 2007
- **PICMET'05 Outstanding Student Paper Award**, granted by Portland International Center in Management of Engineering and Technology, Portland, Oregon
- Member of Honor Society of Phi Kappa Phi, 2003
- Certificate of **Excellent Teaching Assistance** granted by School of Engineering and Computer Science, Portland State University, May 2002 (nominated by Engineering and Technology Management Department).
- Certificate of Excellence for demonstrating results oriented and perfecting the technology trend analysis presentation from Intel Corporation, August 2001.
- Member of **Omega Rho** International Honor Society, 2000
- **Portland State University Commendations Award**, 1999 (nominated by Mechanical Engineering Department as a representative from School of Engineering and Computer Science)
- Scholarship from ASHRAE Oregon Chapter, 1999
- King Bhumibol's Scholarship for Academic Excellence and Achievement, 1985

# **Selected Publications**

### **Books/Book Chapters**

Gerdsri, N. and Suebsin, C., Chapter 13: IT Adoption in Healthcare Organizations. In: Daim and Brem, editors. Managing Medical Technological Innovations Exploring Multiple Perspectives: pp. 399-434. World Scientific Publishing Company; 2020. (ISBN: 978-981-120-468-5)

Gerdsri, N., การวิเคราะห์จัดทำแผนที่นำทางการพัฒนาเทคโนโลยีและนวัตกรรมในองค์กร (Technology Roadmapping). pp. 240. Se-Ed Publisher; 2018. (ISBN: 978-616-08-3159-3)

Manotungvorapun, N. and Gerdsri, N., Chapter 3: An Analytical Approach to Assess the Matching Quality of Academic Partners for Open Innovation in the Form of University-Industry Collaboration. In: Marcus Tynnhammar, editor. *New Waves in Innovation Management Research (ISPIM Insights)*: pp. 37-54. Vernon Press; 2018. (ISBN: 978-1-62273-434-4)

Gerdsri, N. and Kongthon, A., Chapter 10: Bibliometrics and Social Network Analysis Supporting the Research Development of Emerging Areas: Case Studies from Thailand. In: Daim and Pilkington, editors. *Innovation Discovery: Network Analysis of Research and Invention Activity for Technology Management*: pp. 251-275. World Scientific Publishing Company; 2018. (ISBN: 978-1-78634-405-2)

Vatananan, R. and Gerdsri, N., Chapter 16: Current State of Technology Roadmapping (TRM) Research and Practice, In: Daim, Oliver, and Phaal, editors. *Technology Roadmapping*: pp.553-584. World Scientific Publishing Company; 2018. (ISBN: 978-981-3235-33-5)

Gerdsri, N., Chapter 5: Strategic Planning: A Quantitative Model for the Strategic Evaluation of Emerging Technologies. In: Tugrul U. Daim, editor. *Hierarchical Decision Model (HDM) in different sectors of engineering and technology management*. pp. 97-119. Springer Publisher; 2015. (ISBN 978-3-319-18557-6)

Gerdsri, N., Chapter 6: Strategic Planning: An Analytical Approach to Building a Technology Development Envelope (TDE) for Roadmapping of Emerging Technologies. In: Tugrul U. Daim, editor. *Hierarchical Decision Model (HDM) in different sectors of engineering and technology management*. pp. 121-145. Springer Publisher; 2015. (ISBN 978-3-319-18557-6)

Gerdsri, N., Implementing Technology Roadmapping in an Organization. In: Matin G. Moehrle, Ralf Isenmann and Robert Phaal, editor. *Technology Roadmapping for Strategy and Innovation: Charting the Route to Success.* Springer Publisher; 2013. (ISBN 978-3-642-33922-6)

Daim TU, Gerdsri N., Basoglu N, Technology Assessment: Forecasting Future Adoption of Emerging Technologies. ESV Publishing, Berlin Germany; 2010. (ISBN: 978-3-503-12675-0)

Daim TU, Basoglu N., Gerdsri N., Tran T., Chapter 11: Forecasting Technology Diffusion. In: Tidd, J., editor. *Gaining Momentum: Measuring the Diffusion of Innovations*. Imperial College Press, London UK; 2010. (ISBN: 184-8-163-541)

Satangput, P. and Gerdsri, N., Chapter 2: Planning, Technology & Life Cycle Framework, *Roadmapping Converging Technologies to Combat Emerging Infectious Diseases*, APEC Center for Technology Foresight; 2008, pp. 21-28. (ISBN: 978-981-08-1886-9)

Satangput, P. and Gerdsri, N., Chapter 3: Technology Roadmapping, *Roadmapping Converging Technologies to Combat Emerging Infectious Diseases*, APEC Center for Technology Foresight; 2008, pp.29-36. (ISBN: 978-981-08-1886-9)

Gerdsri N. and D. F. Kocaoglu, "An Analytical Approach to building a Technology Development Envelope (TDE) for Roadmapping of Emerging Technologies", *Technology Management: A Unifying Discipline for Melting the Boundaries*, IEEE catalog number 05CH37666, pp. 123-135.\*\*Awarded for the Best Student Paper at Portland International Conference on Management of Engineering and Technology (PICMET), August 2005.

### Journals

Pora, U., Gerdsri, N., Thawesaengskulthai, N., and Triukose, S., Data-driven Roadmapping Approach and Case Demonstration, *IEEE Transactions on Engineering Management* (upcoming)

Manotungvorapun, N. and Gerdsri, N. (2020), Positioning academic partners to align with proper modes of university-industry collaboration", *Int. J. of Business Innovation and Research*; DOI: 10.1504/IJBIR.2020.10025398

Chutivongse, N. and Gerdsri, N., (2019). Creating an innovative organization: Analytical approach to develop a strategic roadmap guiding organizational development, *Journal of Modelling in Management*, DOI: 10.1108/JM2-05-2018-0067

Manotungvorapun, N. and Gerdsri N. (2019). University-Industry Collaboration: Assessing the Matching Quality between Companies and Academic Partners, *IEEE Transactions on Engineering Management*, DOI: 10.1109/TEM.2019.2910154

Gerdsri, N., Puengrusme, S. Vatananan, R. and Tansurat, P., (2019). Conceptual Framework to Assess the Impacts of Changes on the Status of a Roadmap, *Journal of Engineering and Technology* 

*Management*, 52, pp. 16-31.

Chuawatcharin, R. and Gerdsri, N. (2019). Factors Influencing the Attitudes and Behavioural Intentions to Use Just Walk Out Technology (JWOT) Among Bangkok Consumers, *International Journal of Public Sector Performance Management*, 5(2), pp. 146-163.

Gerdsri, N., Kongthon, A. (2018). Identify Potential Opportunity for Research Collaboration: Using Bibliometrics, *International Journal of Business*, 23(3), pp. 248-260.

Gerdsri, N., Kongthon, A., and Puengrusme, S. (2017). Profiling the Research Landscape in Emerging Areas Using Bibliometrics and Text Mining: A Case Study of Biomedical Engineering (BME) in Thailand, *Int'l Journal of Innovation and Technology Management*, Vol. 14, No. 02, pp.1740011 (1-15)

Manotungvorapun, N. and Gerdsri N. (2016). Complementarity vs. Compatibility: What is really matter for Open Innovation partner selection?, *Int'l Journal of Transitions and Innovation System*, Vol. 5, No. 2, pp.122-139.

Tansurat, P. and Gerdsri, N. (2016). Forecasting of Diffusion Pattern: A Case Study of OLED Technology, *KMUTT R&D Journal*, 39(4), pp. 586-597. (in Thai)

Dararuang A., Lersmethasakul, T., and Gerdsri, N. (2016). Technology Roadmapping for and Emerging Small Software Business, *KMUTT R&D Journal*, 39(4), pp. 662-670. (in Thai)

Pollawan, T., Kulkaew, S., and Gerdsri, N. (2014). Factors Affecting QR Code Technology Acceptance (Empirical Study in Bangkok Area), *Kasetsart Engineering Journal*, Vol. 88, pp.29-40. (in Thai)

Intarakumnerd, P. and Gerdsri, N. (2014). Implications of Technology Management and Policy on the Development of a Sectoral Innovation System: Lessons Learned Through the Evolution of Thai Automotive Sector, *Int'l Journal of Innovation and Technology Management*, Vol. 11, No. 3, pp.1440009(1-19).

Sukasiriwat, N. and Gerdsri, N. (2014). Challenges and Limitations of Driving Innovation in Thai SMEs, *KMUTT R&D Journal*, 37(1), pp. 119-131. (in Thai)

Gerdsri, N., Kongthon, A., and R. Vatananan (2013). Mapping the Knowledge Evolution and Professional Network in the Field of Technology Roadmapping (TRM): A Bibliometric Analysis, *Journal of Technology Analysis & Strategic Management*, Vol. 25, No. 4, pp. 403-422.

Vatananan, R. and N. Gerdsri (2012). Current State of Technology Roadmapping (TRM): Research and Practice, *Int'l Journal of Innovation and Technology Management*, Vol. 9, No. 4, pp.1250032(1-20).

Intarakumnerd, P., Gerdsri, N., and P. Teekasap (2012). The Roles of External Knowledge Sources in Thailand's Automotive Industry, *Asian Journal of Technology Innovation*, Vol. 20, No. S1, pp. 85-97.

Daim, T., Gerdsri, N., Kockan, I. and D.F. Kocaoglu (2011), Technology Development Envelope Approach for the Adoption of future Powertrain Technologies: A Case Study of Ford Otosan Roadmapping Model, *Journal of Transportation Systems Engineering and Information Technology*, 11(2), pp. 58-69

Wongnitipat, S. and N. Gerdsri (2011). Supplier Evaluation and Selection: A Case Example of Motorcycle Manufacturing Company, *KMUTT R&D Journal*, 34(1), pp. 60-75 (in Thai)

Chutivongse, N. and N. Gerdsri (2011). Factors Affecting Thai Organizations to Become an Innovative Organization, *Thamasart Business Journal*, 34(130), pp. 47-58 (in Thai)

Gerdsri, N., Assakul, P. and R. Vatananan (2010), An Activity Guideline for Technology Roadmapping Implementation, *Journal of Technology Analysis & Strategic Management*, 22(2), pp. 229-242

Kockan, I., Daim, T.U., and N. Gerdsri (2010), Roadmapping future powertrain technologies: a case study of Ford Otosan, *Int'l Journal of Technology, Policy and Management*, 10(1-2), pp. 157 – 184

Gerdsri, N. and T. Virasa (2010), Technology and Innovation Capability Assessment Tool and its Application to Thai Automotive Parts Makers, *Chulalongkorn Review*, Jan-Mar, pp. 68-79 (in Thai)

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### **Refereed Conferences**

Tansurat, P. and Gerdsri, N., Incorporating Dynamics into Technology Roadmapping: Research Opportunities and Challenges, Portland International Center for the Management of Engineering and Technology (PICMET) Conference, August 2019, Portland, Oregon, USA.

Phichonsatcha, T., Gerdsri, N., Pentrakoon, D., Kanjana-Opas, A., Introducing Indigenous Knowledge into Foresight, Portland International Center for the Management of Engineering and Technology (PICMET) Conference, August 2019, Portland, Oregon, USA.

Tannirandon, A. and Gerdsri, N., Integration of Community Preference in Energy Planning: A Way for Sustainability, Portland International Center for the Management of Engineering and Technology (PICMET) Conference, August 2018, Honolulu, Hawaii, USA.

Pora, U., Thawesaengskulthai, N., Gerdsri, N. and Triukose, S., Data-driven Roadmapping Turning Challenges into Opportunities, Portland International Center for the Management of Engineering and Technology (PICMET) Conference, August 2018, Honolulu, Hawaii, USA.

Chutivongse, N. and Gerdsri, N., Diagnosing the ability and capability of an organization toward being an innovative organization: Use of an assessment model with a case example, Asia-Pacific Decision Science Institute International Conference (APDSI), July 2018, Bangkok, Thailand

Chutivongse, N. and Gerdsri, N., An analytical approach to develop a strategic roadmap guiding a firm to become an innovative organization, International Society for Professional Innovation Management (ISPIM) Conference, June 2017, Vienna, Austria.

Apinantasap, W. and Gerdsri, N., Technology Acceptance of Digital Bag Tags for Airline Passengers, ThaiTIMA National Annual Conference on Technology and Innovation Management, June 2017, Bangkok, Thailand

Weeraphong, S., Sevetpanuvong, P., Thamsatitdej, P., and Gerdsri, N., Factors Hindering Financial Institutes When Reforming IT Units to Become Innovative Organization: A Case Study, ThaiTIMA National Annual Conference on Technology and Innovation Management, July 2017, Bangkok, Thailand

Chuawatcharin, R. and Gerdsri, N., Factors influencing the attitudes and behavioral intentions to use just walk out technology among Bangkok consumers, Technology Innovation Management and Engineering Science international conference (TIMES-iCON2017), November 2017, Bangkok, Thailand

Manotungvorapun, N. and Gerdsri N., From Literature to Practice: Selection Criteria for Industry-University Partners, Portland International Conference on Management of Engineering and Technology (PICMET), Sep 2016, Hawaii, USA

Puengrusme, S. and Gerdsri, N., Conceptual Framework to Assess the Impacts of Changes on the Current Status of a Technology Roadmap, R&D Management Conference, July 2016, Cambridge, UK.

Tannirandon, A. and Gerdsri, N., Energy Planning for Sustainable Development - Challenge and Experience Sharing from Thailand, IEEE-International Conference on Management of Innovation and Technology (ICMIT), Sep 2016, Bangkok Thailand

Manotungvorapun, N. and Gerdsri, N., Matching Partners for Open Innovation Practice, Portland International Conference on Management of Engineering and Technology (PICMET), July 2015, Portland OR, USA

Chutivongse, N. and Gerdsri, N., Proposed Steps to Analyze Organizational Characteristics and Develop a Roadmap for Being an Innovative Organization, Portland International Conference on Management of Engineering and Technology (PICMET), July 2015, Portland OR, USA

Tansurat, P., and Gerdsri, N., Forecasting of Diffusion Pattern: A Case Example of OLED Technology, IEEE International Conference on Industrial Engineering (IEEM), December 2014, Malaysia.

Jirasavetakul, S. and Gerdsri, N., Mapping Characteristics between agile and innovative organization, International Society for Professional Innovation Management (ISPIM), December 2014, Singapore.

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Sukasiriwat, N. and Gerdsri, N., Challenges and Limitations of Driving Innovation in Thai SMEs, 2<sup>nd</sup> ASEAN Plus Three Graduate Research Congress (AGRC), February 2014, Bangkok, Thailand

Vatananan, R. and Gerdsri, N., Assessing the Status of Roadmap-When is the Time to Review? Portland International Conference on Management of Engineering and Technology (PICMET), July 2013, San Jose CA, USA

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Gerdsri, N., Kongthon, A. and Puengrusme S. Discovering the Professional Communities and Social Networks for Emerging Research Areas: Use of Technology Intelligence from Bibliometric and Text Mining Analysis, Portland International Conference on Management of Engineering and Technology (PICMET), July 2012, Vancouver, Canada

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