

## CURRICULUM VITAE



**NAME:** Dr. Thaned Satiennam

**E-MAIL:** sthaned@kku.ac.th, satiennam@gmail.com

**MOBILE PHONE:** +66 (0) 81 974 4481

**OFFICE ADDRESS:**

Department of Civil Engineering, Faculty of Engineering, Khon Kaen University,

Khon Kaen 40002, THAILAND

Tel : +66 (0) 43 202 847

Fax : +66 (0) 43 202 847 Ext. 102

### EDUCATION:

2007: D. Eng. (Transportation Engineering and Socio-technology),

College of Science and Technology, Nihon University, Japan

2002: M. Eng. (Transportation Engineering),

Asian Institute of Technology, THAILAND

2000: B. Eng. (2<sup>nd</sup> honor) (Civil Engineering),

Khon Kaen University, THAILAND

**POSITION:**

2002 - Present: Lecturer, Faculty of Engineering, Department of Civil Engineering, Khon  
Kaen University, THAILAND

2007 - Present: Secretary of Department of Civil Engineering, Khon Kaen University,  
THAILAND

2007 - Present: Committee, Sustainable Infrastructure Research and Development  
Center (SIRDC), Faculty of Engineering, Khon Kaen University,  
THAILAND

**TECHNICAL EXPERTISE:**

- Clean Development Mechanism in Transportation Sector: CO2 emission reduction  
from mass transit project
- Urban Transportation Modeling and Planning, such as planning of Mass Rapid Transit  
Systems in Bangkok (Subway, BTS and Bus Rapid Transit) by using JICA STRADA  
and CUBE

- Micro-simulation modeling, such as simulating operation of Bus Rapid Transit and simulating signal control system for giving priority to Bus Rapid Transit by using PARAMICS
- Combined Multi-modal equilibrium Modeling by using C programming
- Application of statistical modeling for estimating number of traffic accident
- Road Safety Audit focusing on the safety of pedestrians

#### RESEARCH INTERESTS:

- Clean Development Mechanism in Transportation Sector
- Planning of Urban Transit System for Developing Cities, such as BRT
- Urban Transportation Modeling
- Transit Signal Priority
- Traffic Simulation
- Applications of GIS in Transportation
- Highway and Traffic Safety

#### PROFESSIONAL MEMBERSHIP:

- Professional Engineer, The Engineering Council (Thailand)

#### THE SCHOLARSHIPS/HONORS:

- In 2003, Dr. Thaned Satiennam received the Royal Thai Government Full Scholarship for Doctor Degree in Transportation Engineering at College of Science and Technology, Nihon University, Japan. His Doctoral thesis is entitled "*Study on Planning Approach for Bus Rapid Transit Implementation -Dealing with Limited Conditions from Asian Cities Perspective-*".
- In 2000, Dr. Thaned Satiennam received the Royal Thai Government Three-term fellowship for Master Degree in Transportation Engineering at School of Civil Engineering, Asian Institute of Technology, THAILAND. His Master thesis is entitled "*A Study of Pedestrian Accidents in Khon Kaen Municipality, Thailand*".
- In 2000, Dr. Thaned Satiennam awarded the 2<sup>nd</sup> class honors of Bachelor Degree in Civil Engineering.
- In 1998, Dr. Thaned Satiennam received the Royal Thai Government Two-year fellowship for Bachelor Degree in Civil Engineering, Faculty of Engineering, Khon Kaen University, THAILAND.

**PROFESSIONAL EXPERIENCES:**

- “*Study on Potentiality and Opportunity of Clean Development Mechanism in Transport Sector in Thailand: Phase 2*”, commissioned by OTP, 2009.
- “*Study on Potentiality and Opportunity of Clean Development Mechanism in Transport Sector in Thailand*”, commissioned by OTP, 2007.
- “Study on Development of Atmospheric Environmental Impact Assessment Methodology on the Extension of Subway Blue Line in Bangkok”, commissioned by Japan Bank for International Cooperation (JBIC), 2006
- “Study on Development of Traffic and Transportation Master Plan for Regional Cities: Nakhon Phanom Province”, commissioned by OCMLT, 2002
- “Study on Black Spots Improvement in Khon Kaen”, commissioned by Thai Health Promotion Foundation, 2002

**PROFESSIONAL QUALIFICATION TO SOCIETY:**

- A member of symposium & activity committee and editorial committee of Asian Transportation Research Society (ATRANS), 2009

- A chairman of steering committee of 11th International Student Seminar On Transport Research Symposium, JAPAN, 2005
- A member of steering committee of 10th International Student Seminar On Transport Research Symposium, VIETNAM, 2004
- A member of steering committee of 8th National Convention on Civil Engineering, THAILAND, 2002:

#### CURRENT PROJECTS:

- *“Study on Potentiality and Opportunity of Clean Development Mechanism in Transport Sector in Thailand: Phase 2”*, commissioned by OTP, 2009.
- *“Design of an Optimal Driving Cycle and Controller for Reducing Fuel Consumption and Emission in a Vehicle by Using an Electronic Drive-by-Wire Test Rig: an Implementation on Khon Kaen Public Pickup Truck”*, commissioned by ATRANS, 2009.

#### REFEREED PAPERS PUBLISHED IN INTERNATIONAL JOURNALS:

- Wichuda Kowtanapanich, Yordphol Tanaboriboon and **Thaned Satiennam** (2007), "Injury Severity Sustained in Road Crash: Khon Kaen, Thailand Case Study", Journal of the Eastern Asia Society for Transportation Studies, Japan.
- Ryosuke Oshima, Atsushi Fukuda, Tuenjai Fukuda and **Thaned Satiennam** (2007), "Study on Regulation of Motorcycle Taxi Service in Bangkok", Journal of the Eastern Asia Society for Transportation Studies, Japan.
- **Thaned Satiennam**, Atsushi Fukuda, and Ryosuke Oshima (2006) "A Study on the Introduction of Bus Rapid Transit System in Asian Developing Cities", IATSS Research, Journal of International Associational of Traffic and Safety Sciences, Vol. 30, No. 2.
- **Thaned Satiennam**, Atsushi Fukuda, and Toshiaki Muroi (2006), "Introduction of Signal Control Strategy for Nearside Bus Stop to Improve Bus Operation along Two-lane Arterial", Infrastructure Planning Review, Japan Society of Civil Engineers, Vol. 23, No.4, pp. 811-818.
- Yordphol Tanaboriboon and **Thaned Satiennam** (2005), "Traffic Accidents in Thailand", IATSS Research, Journal of International Associational of Traffic and Safety Sciences, Vol. 29, No. 1, pp. 88-100.

- Yordphol Tanaboriboon and **Thaned Satiennam** (2004), “Traffic Accidents in Thailand”, IATSS Review, Journal of International Association of Traffic and Safety Sciences, Vol. 29, No. 3, Dec., pp. 199-210 (in Japanese).
- **Thaned Satiennam**, Yordphol Tanaboriboon (2003), “A Study on Pedestrian Accidents and Investigation of Pedestrian’s Unsafe Conditions in Khon Kaen Municipality, Thailand”, Journal of the Eastern Asia Society for Transportation Studies, Vol. 5, October, pp. 95-110.

#### REFEREED PAPERS PUBLISHED IN INTERNATIONAL PROCEEDINGS:

- **Thaned Satiennam**, Phongphan Tankaseam, Surachai Sathitkunnarat, and Wichuda Kowtanapanich (2009), “A Feasibility Study on Clean Development Mechanism Project for Transport Sector in Khon Kaen University, Thailand”, Proceeding of the Eastern Asia Society for Transportation Studies, Japan.
- **Thaned Satiennam**, Atsushi Fukuda, and Ryosuke Oshima (2007), “Strategies Enhancing Bus Rapid Transit Development in Asean Developing Cities -A Case Study on Bangkok Metropolitan Administration Project-”, the 86th Annual Meeting of the Transportation Research Board, Washington, D.C.



- **Thaned Satiennam**, Atsushi Fukuda and Yuichiro Kaneko (2007), “Demand Supply Policy for Bus Rapid Transit Development in Asian Developing Cities -Accumulating Demands from Urban Sprawls to BRT Corridor by Paratransit Feeder -”, 11th World Conference on Transport Research, Berkeley, USA.
- **Thaned Satiennam**, Atsushi Fukuda, Toshiaki Muroi and Sarawut Jansuwan (2005), “An Enhanced Public Transportation Priority System for Two-lane Arterials with Nearside Bus Stops”, Proceeding of the Eastern Asia Society for Transportation Studies, Japan.
- **Thaned Satiennam**, Atsushi Fukuda, (2005), “Comprehensive Transportation Policy Development Using Traffic Simulation Technique for Khon Kaen City, Thailand”, Proceeding of the Eastern Asia Society for Transportation Studies, Japan.