



Assistant Professor Dr. Manat Srivanit

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Specializations

- Urban and Environmental Planning
- Geospatial Information Technologies
- Urban Climate Planning in the Tropics

Educations

- B.S. (Geography) (with 2nd Class Honors), Chiang Mai University, Thailand (2003)
- M.U.R.P. (Urban Planning) (with Academic Excellence Master's Thesis), Faculty of Architecture, Chulalongkorn University, Thailand (2005)
- Ph.D. Science and Advanced Technology (City Planning), Graduate School of Science and Engineering, Saga University, Japan (Japanese Government Scholarship; Monbukagakusho Scholarship 2010) (2013)

Professional Memberships

- Council of Science and Technology Professionals (Geoinformatics) (2017)
Member ID 61400398315
- Thai Urban Designers Association (TUDA) (2018)
Member ID 61200002
- International Association for Urban Climate (IAUC) (2014)

Publications (Journal Papers)

- Kaewkhaw, S., Srivanit, M. (2017). *A Collaborative Geodesign Approach for Integrating Local and Technical Knowledge in Establishing Land-Use Planning for the Border Town Comprehensive Plan*. International Journal of Building, Urban, Interior and Landscape Technology (BUILT), Volume 10 (2017), pp. 43-54. [TCI Journal, Q2]
- Iamtrakul, P., Srivanit, M., Klaylee, J., (2017). *Resilience in Urban Transport towards Hybrid Canal-Rail Connectivity Linking Bangkok's Canal Networks to Mass Rapid Transit Lines*. International Journal of Building, Urban, Interior and Landscape Technology (BUILT), Volume 10 (2017), pp. 27-42. [TCI Journal, Q2]
- Srivanit, M., Selanon, P., (2017). *GIS-based Land Suitability Analysis to Support Transit-Oriented Development (TOD) Master Plan: A Case Study of the Campus Station of Thammasat University and Its Surrounding Communities*. International Journal of Building, Urban, Interior and Landscape Technology (BUILT), Volume 9 (2017), pp. 49-60. [TCI Journal, Q2]
- Rasul, A. Balzter H., Smith, C., Remedios, J., Adamu, B., Sobrino, J.A., Srivanit, M., Weng, Q. (2017). *A Review on Remote Sensing of Urban Heat and Cool Islands: Land 2017*, 6(2), 38. [ISI Journal]
- Srivanit, M., Auttarat, S. (2016). *Classifying Spatial Homogeneity of Thermally-Stabilized Surface to Define Differentiation Local Atmospheric Zones in Chiang Mai City*; Journal of Architectural and Planning Research and Studies (JARS), Vol.13(1), pp.1-22. [TCI Journal, Q1]
- Srivanit, M., Auttarat, S. (2015). *Summer Thermal Environment and Human Comfort of Shaded Outdoor and Semi-Outdoor Spaces in a Hot and Humid Climate of Chiang Mai, Thailand*; Journal of Architectural and Planning Research and Studies (JARS), Vol.12(2), pp.53-72. [TCI Journal, Q1]

- Srivanit, M., Hokao, K., Iamtrakul, P. (2014). *Classifying Thermal Climate Zones for Urban and Environmental Planning in Bangkok Metropolitan Area*; Journal of Architectural and Planning Research and Studies (JARS), Vol.11 (1), pp. 73-92. [TCI Journal, Q1]
- Srivanit, M., Hokao, K. (2013). *Evaluating the Cooling Effects of Greening for Improving the Outdoor Thermal Environment at an Institutional Campus in the Summer*; Building and Environment, Vol. 66, pp. 158-172. [ISI Journal]
- Srivanit, M., and Hokao, K. (2012). *Thermal Infrared Remote Sensing for Urban Climate and Environmental Studies: An Application for the City of Bangkok*, Thailand; Journal of Architectural and Planning Research and Studies (JARS), Vol.9(1), pp.83-100. [TCI Journal, Q1]
- Srivanit, M., Hokao, K. (2012). *Effects of Urban Development and Spatial Characteristics on Urban Thermal Environment in Chiang Mai Metropolitan, Thailand*; Journal of Lowland Technology International (LTI), Vol.14 No.2, pp.9-22. [Scopus]
- Srivanit, M., Hokao, K., Phonekeo, V. (2012). *Assessing the Impact of Urbanization on Urban Thermal Environment: A Case Study of Bangkok Metropolitan*; the International Journal of Applied Science and Technology (IJAST), Vol.2 No.7, pp.243-256.
- Srivanit, M., Hokao, K. (2011). *The Influence of Urban Morphology Indicators on Summer Diurnal Range of Urban Climate in Bangkok Metropolitan Area, Thailand*; the International Journal of Civil & Environmental Engineering (IJCEE-IJENS), Vol.11 No.05, pp.34-46.
- Srivanit M. (2012). *Community Risk Assessment: Spatial Patterns and GIS-Based Model for Fire Risk Assessment-A Case Study of Chiang Mai*; Journal of Architectural and Planning Research and Studies (JARS), Vol.8(2), pp.113-126. [TCI Journal, Q1]
- Menarin, S., Iamtrakul, P., Phonpro, W., Srivanit, M. (2011). *Alternative Approach for GIS-Based Evaluation of Transit-Oriented Development: A Case Study of Saga City, Japan*; Journal of Society for Transportation and Traffic Studies (JSTS), Vol. 2(1), pp. 27-45.
- Srivanit M. (November 2010). *Impact of Spatially-explicit Urbanization on Urban Heat Island in Chiang Mai Metropolitan Area*; Maejo University Annual 2010, pp.176-185.
- Suksa-Ard, P., Iamtrakul, P., Srivanit, M. (2010). *Influence of Road Development and Land Cover Change on Urban Heat: A Case Study of Pathumthani, Thailand*; the Journal of Society for Transportation and Traffic Studies (JSTS), Vol.1 No2, pp.48-62.
- Monton, Y., Srivanit, M. (2010). *Estimate Density of Criminal Pattern Using Kernel Function Analyst: A Case Study on Phanakhon District, Bangkok, Thailand*. Journal of Architectural and Planning Research and Studies (JARS), Vol.7 (1), pp.87-102. [TCI Journal, Q1]

National and International Conference Papers

- Seehawallop, K., Srivanit, M. (2017). *Integration of Intervisibility and Perception Assessment to Evaluate Spatial Visual Pollution from Outdoor Advertisements: A Case Study of Wongwian Yai*; Proceeding of the 2nd NUNatGEN2017, Naresuan University, Thailand, pp.161-169.

- Kaewkhaw, S., Srivanit, M. (2017). *Integrating Design and Geospatial Technologies in the Border Town Comprehensive Planning of the Thai-Myanmar Border*; Proceeding of the 2nd NUNatGEN2017, Naresuan University, Thailand, pp.123-132.
- Srivanit, M. (2017). *Landscape Structure of Green Spaces and Its Effect on Land Surface Temperature in Chiang Mai City Area, Thailand*; Proceeding of the 2nd NUNatGEN2017, Naresuan University, Thailand, pp.98-106.
- Kongphunphin, C., Srivanit, M., lamtrakul, P. (2017). *A Geospatial-based assessment of potential green space for sustainable land-use planning in Nakorn Nayok Province*; Proceeding of the 2nd NUNatGEN2017, Naresuan University, Thailand, pp.63-71.
- Haider, M.A., Denpaiboon, C., Srivanit, M. (2017). *Analyzing Models of Crime in its Urban Planning Process: A Case Study of Bangladesh*; Proceedings of the 8th Built Environment Research Associates Conference 2017 (BERAC8) "(Un)Smart: Our Future Survival", Thammasat University, Thailand, pp.497-510.
- Thoeisiri, C., Srivanit, M., lamchuen, N. (2017). *A Review of Modelling Geographic Space to Predict of Future Urban Growth*; Proceedings of the 8th Built Environment Research Associates Conference 2017 (BERAC8) "(Un)Smart: Our Future Survival", Thammasat University, Thailand, pp.465-473.
- Kowaphirat, C., Srivanit, M. (2017). *Integration of Geomarketing Analysis and Spatial Econometric Approaches to Estimate the Hedonic Property Value of Residential Condominium Market in Bangkok Metropolitan Area*; Proceedings of the 8th Built Environment Research Associates Conference 2017 (BERAC8) "(Un)Smart: Our Future Survival", Thammasat University, Thailand, pp.288-294.
- Udomsajjaphan, N., Jareemit, D., Srivanit, M. (2017). *The Influence of Timing in Transitional Space on Thermal Perception in Space-conditioning*; Proceedings of the 8th Built Environment Research Associates Conference 2017 (BERAC8) "(Un)Smart: Our Future Survival", Thammasat University, Thailand, pp.86-92.
- Leetongin, P., Jareemit, D., Srivanit, M. (2017). *Calibration and Validation of the ENVI-met V4 Model of Outdoor Microclimate Against On-site Measurements: An Experimental Study of the Detached House Neighbourhood in Bangkok, Thailand*; Proceedings of the 8th Built Environment Research Associates Conference 2017 (BERAC8) "(Un)Smart: Our Future Survival", Thammasat University, Thailand, pp.78-85.
- Kaewkhaw, S., Srivanit, M., Daungthima, W. (2017). *Collaborative Geodesign Approach to Support Sustainable Land-Use Planning for the Border Town Comprehensive Plan of the Thai-Myanmar Border*; International regional science meeting on NASA Land Cover/Land Use Change in South/Southeast Asia, 17-19th July, 2017, Chiang Mai, Thailand. - Poster Presentation-
- Wannakaew, S., Daungthima, W., Mahawan, N., Summaniti, L., Srivanit, M. (2017). *Influence of Urban Geometry on Appearing of the Urban Heat Island Phenomenon: An Experimental Study in the Institutional Campus of Maejo University*; Conference proceedings of the 6th Urban and Regional Planning Academic Symposium (URPAS2017) "Innovation City", 5th June 2017, Chulalongkorn University, Thailand, pp.211-228.

- Srivanit M. (August 2010), *Effects of Climate Change and Spatial Characteristics on Urban Heat Island in Chiang Mai City, Thailand*; the 1st Climate Thailand Conference 2010 (CTC2010), Bangkok.
- Srivanit M. (May 2010), *An Analysis of Spatial Characteristics and Urbanization Effects on Urban Heat Island in Chiang Mai City, Thailand*; the Maejo University Annual Conference 2010, Chiang Mai, Thailand.
- Menarin, S., Iamtrakul, P., Srivanit, M. (January 2010), *Alternative Approach for GIS based Evaluation of Transit-Oriented Development: a case study of Saga University, Japan*; the First International on the Future of Human Mobility.
- Srivanit M. (December, 2009), *GIS-based Land Suitability Analysis for Transit Oriented Development (TOD): A Case Study of Mass Transit Station to Campus Community*; the Geoinfotech 2009 Conference.
- Srivanit M. (October 2008), *Spatial Vulnerability Assessment in the World Heritage City of Ayutthaya, Thailand*, the 1th International Training Program 2008: Urban Planning and Simulation and Urban Design for Cultural Heritages.

Professional Experiences

Journal Editorial Boards:

- Editorial Board of International Journal of Building, Urban, Interior, and Landscape Technology (BUILT), Faculty of Architecture and planning, Thammasat University, Thailand.
- Editorial Board of Journal of Architectural/ Planning Research and Studies (JARS), Faculty of Architecture and planning, Thammasat University, Thailand

Professional Services:

- 2018-Reviewer of Energy and Environment (ISSN: 0958305) SAGE Publications Inc.
- 2018-Reviewer of European Journal of Remote Sensing (ISSN: 22797254) Associazione Italiana di Telerilevamento (AIT)
- 2016-Editorial Board of the 1st Architecture and Environmental Design Conference (AED 1st, 2016) "Build with Respect to Nature", Faculty of Architecture and Environmental Design, Maejo University, Thailand.
- 2016-Reviewer of International Journal of Earth Sciences and Engineering (IJEE) (ISSN: 0974-5904), Cafet Innova Technical Society, Hyderabad, India.
- 2015-Reviewer of Walailak Journal of Science and Technology (WJST), Walailak University, Thailand.
- 2015-Reviewer of Naresuan University Engineering Journal (NUEJ), Naresuan University, Thailand.
- 2013-Reviewer of Built Environment Research Associates Conference (4th BERAC 2013), Faculty of Architecture and planning, Thammasat University, Thailand.

Other Scholarly Activities:

- 2018-Conference Committee of the 9th Built Environment Research Associates Conference (BERAC9), Faculty of Architecture and planning, Thammasat University, Thailand.

- 2017-Conference Committee of the 8th Built Environment Research Associates Conference (BERAC8), “(Un)Smart: Our Future Survival”, Faculty of Architecture and planning, Thammasat University, Thailand.
- 2016-Book Review: *A Framework for Geodesign: Changing Geography by Design* (Carl Steinitz (2012) California, USA: Esri Press 224 pp.) in International Journal of Building, Urban, Interior, and Landscape Technology (BUILT), Vol.7, pp.53-60.
- 2016-Honorary Advisory Board of the International UNIMAS STEM EnCON2016 from 26-28 October 2016 “Innovative Solution for Engineering and Technology Challenges”, Faculty of Engineering, Universiti Malaysia Sarawak.
- 2016-Conference Committee of the 7th Built Environment Research Associates Conference (BERAC7), “Progress-Nature-Origins”, Faculty of Architecture and planning, Thammasat University, Thailand.
- 2015-Conference Committee of the 3rd International Conference on Civil and Environmental Engineering for Sustainability (IConCEES 2015), Universiti Tun Hussein Onn Malaysia (UTHM), Malaysia.
- 2014-Book Review: *Designing High-density Cities for Social & Environmental Sustainability* (Edward Ng (2010) London, UK: Earthscan 329 pp.) in International Journal of Building, Urban, Interior, and Landscape Technology (BUILT), Vol.4, pp.61-64.

Professional Consultancy

- 2017- Consultant, *Comprehensive Planning of Uttaradit Province*, Department of Public Works and Town & Country Planning, Thailand.
- 2016- Consultant, *Evaluating the efficiency of ecological and environmental design on the real estate development project: A case study of the Whizdom 101 project in Bangkok*, Magnolia Quality Development Corporation Limited, MQDC.
- 2016- Consultant, *Comprehensive Plan of Thai-Myanmar Border Checkpoints (Kew Pha Wak and Baan Lak Tang) at Chiang Mai Province*, Department of Public Works and Town & Country Planning, Thailand.
- 2015- Consultant, *Comprehensive Planning of Chanburi Province*, Department of Public Works and Town & Country Planning, Thailand.

Research Experiences

- 2017-*Creative Design Experiments in Architecture School*, National Research Council of Thailand Research Scholarship 2017. (Co-Investigator)
- 2015-*Impact of Urban Form and Urban Greening Policies for Mitigating and Adapting to a Changing of Urban Climate in Chiang Mai City*, Themmasat University Research Scholarship 2015. (Principal Investigator)
- 2016-*The Effects of Smog and Urban Vulnerability*, National Research Council of Thailand Research Scholarship 2016. (Co-Investigator)

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- 2015-*Urban Planning and Environmental Design Strategies for Encouraging Transit-Oriented Development (TOD)*, National Research Council of Thailand Research Scholarship 2015. (Principal Investigator)
- 2014-*A Study on Urban Planning Concepts to Create a Body of Knowledge for the Reduction of Urban Heat Island Guideline in Chiang Mai Urban Area*, National Research Council of Thailand Research Scholarship 2014.
- 2014-*Hybrid Canal-Rail Connectivity: Linking Bangkok's Canals Networks to Mass Rapid Transit Lines*, The Rockefeller Foundation.
- 2009-*The Study of Banbung City Country Comprehensive Plan Revision*, Banbung Municipality, Chonburi Province, Thailand, Research Scholarship: Banbung Municipality.
- 2008-*Adopting and adapting the Japanese of flood disaster and historical city preservation: New approach of improvement "people empowering for disaster prevention"*, Research Scholarship: the Sumitomo Foundation, Japan.
- 2008-*The Study of Interconnection of Mass transit Station to Campus Community (Thammasat University, Rangsit Campus)*, Research Scholarship: Office of Transport and Traffic Policy and Planning (OTP).
- 2008-*Feasibility Study of Mass transit Station to Campus Community (Thammasat University, Rangsit Campus)*, Research Scholarship: Office of Transport and Traffic Policy and Planning (OTP).
- 2008-*The Study of Puakdaeng City Country Comprehensive Plan*, Rayong Province, Thailand, Research Fund: Puakdaeng City.
- 2007-*The Study of Nakhonpathom City Country Comprehensive Plan Revision*, Nakhonpathom Municipality, Nakhonpathom Province, Thailand, Research Fund: Nakhonpathom City.
- 2007-*The Study of Katoomban City Country Comprehensive Plan Revision*, Katoomban municipality, Samutsakron Province, Thailand, Research Fund: Katoomban City.
- 2006-*Master Plan of Industrial Estate in the Northeast's Thailand*, Research Fund: Industrial Estate Authority of Thailand.
- 2006-*The Study of Regional Planning in the Southern of Thailand*, Research Fund: Office of Urban and Regional Planning, Department of Public Work and Town and Country Planning, Ministry of Interior, Thailand.
- 2006-*The Study of Hatyai City Country Comprehensive Plan Revision to Prevent from Flood Pond Area in 2005*, Research Fund: Department of Public Work and Town and Country Planning, Ministry of Interior, Thailand.
- 2006-*The Study of Land Readjustments in the Project Area of Angsila District, Chonburi Province, Thailand*, Research Fund: Department of Public Work and Town and Country Planning, Ministry of Interior, Thailand.
- 2005-*Master's Thesis "Guidelines for Fire Protection in Chiang Mai Municipality, Thailand"* (Passed in an "Excellent" Achievement), Chulalongkorn University.
- 2003-*Undergraduate Degree's Independent Study "Urban Emergency Response Planning and Management: A Case Study on Chiang Mai Municipality, Chiang Mai, Thailand"*, Chiang Mai University.

Honors and Awards

- 2017-*Best Poster Award – First Place* for poster in the scientific sessions on International Regional Science Meeting on Land Cover/Land Use Change (LCLUC) in South/Southeast Asia, 17-19th July, 2017.
- 2015-*Listing in the Top 25 Hottest Articles*, Building and Environment (October to December 2015); Article title: Evaluating the cooling effects of greening for improving the outdoor thermal environment at an institutional campus in the summer.
- 2014-*Thammasat University Research Awards: Young Researcher Award* (November, 2014)
- 2012-*Craucher Advanced Study Institute 2011-2012 Scholarship in Urban Climatology on Tropical*, School of Architecture, The Chinese University of Hong Kong.
- 2010-*Japanese Government Scholarship: Monbukagakusho Scholarship 2010*, Saga University, Japan
- 2005-*Academic Excellence for Master's Thesis of Urban Planning*, Department of Urban and Regional Planning, Faculty of Architecture, Chulalongkorn University, Thailand.
- 2003-*Certificate of Academic excellence 2nd Class Honor of Bachelor of Science (Geography)*, Chiang Mai University, Thailand.
- 2003-*The Best Independence Study of Geography*, Chiang Mai University, Chiang Mai, Thailand.
- 2002-*Academic Excellence Certificate for 2002 (GPA Over 3.50)*, Chiang Mai University, Chiang Mai, Thailand.