

**Full name:** TRAN THI VAN

✓ **Gender:** Female

✓ **Place of work:**

*University:* Ho Chi Minh City University of Technology

*Faculty:* Faculty of Environment and Natural Resources

*Department:* Department of Resource and Environmental Informatics - DREI

*Position:*

✓ **Degree:** Doctor of Philosophy      **Year:** 2012

✓ **Academic title:**

✓ **Contact:**

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✓ **Foreign language:**

No.	Language	Listening	Speaking	Writing	Reading
1	English	Fair	Fair	Fair	Fair
2					

✓ **Working history:**

Duration	Place	Position
1989 - 1991	Geo-science Center, Vietnam National Academy of Sciences	Researcher
1991 - 2004	Sub-Institute of Geography, Vietnam National Centre for Natural Science and Technology	Researcher, Deputy of Head
2004 - 2011	Institute for Environment and Resources, Vietnam National University - Ho Chi Minh City (VNU-HCMC)	Lecturer, Deputy of Head
2011-2014	Institute for Environment and Resources, Vietnam National University - Ho Chi Minh City (VNU-HCMC)	Lecturer, Head
2014 up to now	Ho Chi Minh City University of Technology, Vietnam National University - Ho Chi Minh City (VNU-HCMC)	Lecturer

✓ **Education outline:**

Level	Duration	Place	Field	Title of thesis
Undergraduate	Russian State Hydrometeorological University (former, Leningrat Hydrometeorological Institute, USSR)	Meteorology	1988	Parameterization of turbulent fluxes in boundary layer
Master	University of Technology, Vietnam National University –	Geomatics	2002	Integrated remote sensing and GIS in evaluating land

<i>Level</i>	<i>Duration</i>	<i>Place</i>	<i>Field</i>	<i>Title of thesis</i>
	Ho Chi Minh City (VNU-HCMC)			adaptive potential for rice
Doctor	Institute for Environment and Resources, Vietnam National University – Ho Chi Minh City (VNU-HCMC)	Environmental Resources Exploitation and Protection	2011	Study of urban surface temperature change under impact of urbanization by using remote sensing and GIS method, in case of Ho Chi Minh City

✓ **Research interests:**

- Remote Sensing and GIS applications in earth and environmental resources science, in disaster monitoring
- Thermal remote sensing to assess climate change, urban heat islands, environmental quality and energy
- GIS to manage database resources and environment
- Climate Resources and BioClimatology
- Heat Island and its impact on the environment and communities health
- Urbanization and its impact on the urban environment (air, water)

✓ **Selected publication:**

<b>1. Research projects</b>			
<i>Title of Project</i>	<i>Time (Begin - End)</i>	<i>Level of project</i>	<i>Completion</i>
<b><u>As Leader</u></b>			
Application of informatics to synthesize adaptive evaluation of cultivated crops	1995-1996	SIG	
Approach on radar image processing method in monitoring of rice growth in Cu Chi	1999-2000	SIG	
Building and managing based-MapInfo database of natural resources of Dam Doi and Cai Nuoc in Ca Mau province at scale 1:25000	2001	Provincial	
Designing, building and managing database of environmental observation on GIS	2004-2005	IER	
Application of thermal remote sensing to supplement information for land cover map	2006-2007	VNU-HCM	
Application of Geoinformatics to Urban Environmental Management in View of Urban Climatology: Case Study in Ho Chi Minh City	2006-2008	Pilot	
Study of the impact of urban development on surface temperature of the North Ho Chi Minh City based on	2006-2008	MOST	

remote sensing and GIS			
Appication of remote sensing to study of the impact of urban development and land cover changes on urban climate trend in Ho Chi Minh City	2009-2010	VNU-HCM	
Application of remote sensing to monitor air quality (dust component) in urban areas, test for Ho Chi Minh City	2011-2012	VNU-HCM	
Application of GIS for the management of mineral resources in Binh Phuoc province	2011-2013	Provincial	
Application of Informatics (GIS) in management of mineral resources in Binh Duong	2012-2013	Provincial	
Research on thermal infrared remote sensing method to evaluate urban thermal environment providing additional solutions for the urban planning in the trend of global warming	2013-2015	NAFOSTED	
Research on the effects of the thermal environment to urban rainfall in urban hydrology cycle in Ho Chi Minh City	2016	HCMUT	
<b><u>As participant</u></b>			
Synthetic evaluation of potentials of econo-natural conditions to propose production arrangement for Tan Hong district in Dong Thap province at scale 1:25.000	1990-1991	Provincial	
Synthetic evaluation of potentials of natural resources for Mekong Delta at scale 1:250.000	1991-1992	National	
Oriented synthesizing physical, natural resources and socio-economic conditions for hill, low land and inshore interior-field sand land of Quang Tri and Thua Thien-Hue provinces	1991-1993	Provincial	
Investigating land use of Can Gio district, at scale 1:25.000	1992-1993	Provincial	
Application of GIS technique for managing map data of Plain of Reed	1995-1997	National	
Initial approach on image processing method by remote sensing technology	1996-1997	SIG	
Building Geographical information system (GIS) for managing natural resouces and monitoring environment in Ca Mau province	1998-2000	Provincial	
Rice monitoring in Mekong Delta using Radarsat images (VietRice Project)	1999-2000	International	
Integration of radar remote sensing and GIS to evaluating the role of natural condition in distribution of rice in Mekong Delta	2000-2001	MOST	
Study of physical, economic and social conditions impacting shrimp ecology	2000	MOST	
Sloping Land Improvement Project in Higher Education Link of British Council	2001-2004	International	

Establishing database for resources exploitation planning, environment preserving to ensure the goal of sustainable development of Nha Be – Can Gio	2004-2005	Provincial	
Establishing natural resources and environmental database for serving planning, resources exploiting and environment preserving to ensure the goal of sustainable development of Binh Duong province	2008-2010	Provincial	
Nghiên cứu ảnh hưởng của biến đổi khí hậu đến hệ sinh thái thực vật rừng ngập mặn Cần Giờ và đề xuất các giải pháp bảo vệ	2012-2014	Provincial	
Ứng dụng công nghệ viễn thám đánh giá biến động bề mặt địa hình thành phố Hồ Chí Minh dưới tác động của quá trình đô thị hóa	2013-2014	Provincial	

## 2. Selected Publications and Reports

2a	<i>Textbooks, Publications</i>	<i>Head / participant</i>	<i>Publisher</i>	<i>Year of Publication</i>
2b	<i>Journal reports</i>			
	<u><i>International journal reports</i></u>			
1	Surface Emissivity in Determining Land Surface Temperature	participant	<i>International Journal of Geoinformatics</i>	2007
2	Erosion and Nutrient Loss on Sloping Land under Intense Cultivation in Southern Vietnam	participant	<i>Geographical Research</i>	2008
3	Local Knowledge and Economic Realities affecting Soil Erosion in the Rach Rat Catchment, Vietnam	participant	<i>Geographical Research</i>	2008
4	Study of the Impact of Urban Development on Surface Temperature Using Remote Sensing in Ho Chi Minh City, Northern Vietnam	Head	<i>Geographical Research</i>	2010
	<u><i>Domestic journal reports</i></u>			
1	Climatology and Shrimp	Head	<i>Scientific and Technical Hydro-Meteorological Journal</i>	2001
2	Application of thermal remote sensing on investigating feature of urban surface temperature with distribution of land cover types in Hochiminh city	Head	<i>Journal of Science and Technology Development, VNU-HCM Press</i>	2006
3	Urbanization and quality of urban	Head	<i>Journal of Science and</i>	2008

	environment from remote sensing of impervious surfaces: case study in Ho Chi Minh City		<i>Technology Development, VNU-HCM Press</i>	
4	Research on the effect of urban expansion on agricultural land in Ho Chi Minh City by using remote sensing method	Head	<i>Journal of Science, Earth Sciences, VNU Hanoi Press</i>	2008
5	A study on urban development through land surface temperature by using remote sensing: in case of Ho Chi Minh City	Head	<i>Journal of Science, Earth Sciences, VNU Hanoi Press</i>	2008
6	Study on determination of urban surface temperature by thermal remote sensing method	Head	<i>Journal of Science and Technology Development, VNU-HCM Press</i>	2009
7	Thermal remote sensing method in study on urban surface temperature distribution	Head	<i>Journal of Sciences of the Earth, Vietnam Academy of Science and Technology Press</i>	2009
8	Application of remote sensing for shoreline change detection in Cuu Long estuary	Head	<i>Journal of Science, Earth Sciences, VNU Hanoi Press</i>	2009
9	Urban heat island under impact of urbanization in Hochiminh City from remote sensing data	Head	<i>Journal of Science and Technology Development, VNU-HCM Press</i>	2010
10	Application of remote sensing and GIS monitoring urbanization in Ho Chi Minh city through impervious surfaces	Head	<i>Journal of Science and Technology Development, VNU-HCM Press</i>	2011
11	Research on the change of urban surface temperature under impact of urbanization in Hochiminh City by applying remote sensing method	Head	<i>Journal of Sciences of the Earth, Vietnam Academy of Science and Technology Press</i>	2011
12	Study of dust pollution monitoring ability in urban areas by remote sensing technology to support air environment observation	Head	<i>Journal of Science and Technology Development, VNU-HCM Press</i>	2012
13	Remotely Sensed Aerosol Optical Thickness Determination to Simulate PM10 Distribution over Urban Area of Ho Chi Minh City	Head	<i>Journal of Science, Earth Sciences, VNU Hanoi Press</i>	2014
14	Evaluating change of surface topography as urban development in the south of Ho Chi Minh City based on analyzing remote sensing data	Head	<i>Journal of Sciences of the Earth, Vietnam Academy of Science and Technology Press</i>	2015

9c	<i>Seminar and conference Reports</i>			
1	Rice mapping by SAR in the service of land resources exploitation evaluation in Mekong Delta	participant	<i>Proceedings of The Regional Conference on Digital GMS, Asian Institute of Technology Bangkok, Thailand</i>	2003
2	Investigating feature of urban surface temperature with distribution of land cover types in Hochiminh city using thermal infrared remote sensing	Head	<i>Proceedings of the 26<sup>th</sup> Asian Conference on Remote Sensing (ACRS 2005) on CD-ROM, Hanoi, Vietnam,</i>	2005
3	Relationship between surface temperature and land cover types using thermal remote sensing, in case of Hochiminh City	Head	<i>Proceedings of the 16th APEC workshop on ocean models and information system for the APEC region, Ho Chi Minh City, Vietnam,</i>	2005
4	Urban expansion and loss of agricultural land of the North of Ho Chi minh City: A GIS and remote sensing approach	Head	<i>Proceedings of The International Symposium GIS-IDEAS 2006, Ho Chi Minh City, Vietnam</i>	2006
5	Stress of Imperviousness on Urban Environment under Urbanization Process: A Remote Sensing Approach,	Head	<i>Proceedings of the 7<sup>th</sup> General Seminar of Core University Danang City, Vietnam,</i>	2007
6	Urban Land Cover Change through Development of Imperviousness in Ho Chi Minh City, Vietnam	Head	<i>Proceedings of The 28<sup>th</sup> Asian Conference on Remote Sensing (ACRS2007), Kuala Lumpur Malaysia,</i>	2007
7	Land Cover Mapping Through Relationship of Thermal Properties and Vegetation Indices	Head	<i>Proceedings of the 14<sup>th</sup> International Conference and exhibition on GISpro, Ho Chi Minh City, Vietnam,</i>	2008
8	Application of Geoinformatics to Urban Environmental Management in View of Urban Climatology: Case Study In Ho Chi Minh City, Vietnam	Head	<i>Proceedings of The 29<sup>th</sup> Asian Conference on Remote Sensing (ACRS2008), Colombo, Sri Lanka,</i>	2008
9	Shoreline Change Detection to Serve Sustainable Management of Coastal Zone in Cuu Long Estuaries	Head	<i>Proceedings of the International Symposium GIS-IDEAS</i>	2008

			2008, Hanoi, Vietnam	
10	Application of Thermal Remote Sensing in Study on Surface Temperature Distribution of Ho Chi Minh City	Head	<i>Proceedings of the 7th FIG Regional Conference on CD-ROM, Hanoi, Vietnam</i>	2009
11	Research on the change of urban surface temperature under impact of urbanization in Hochiminh city by using remote sensing data	Head	<i>Proceedings of The 31<sup>th</sup> Asian Conference on Remote Sensing (ACRS2010), Hanoi, Vietnam</i>	2010
	The Change of Urban Surface Temperature Under Impact of Urbanization in Hochiminh City,		<i>Proceedings of The 2<sup>nd</sup> VNU-HCM International Conference for Environment and Natural Resources (ICENR 2010), 2-3 December 2010, Hochiminh City, Vietnam</i>	
	Monitoring Urban Dust Pollution by Using Remote Sensing Method, Case Study in Ho Chi Minh City,		<i>Proceedings of the International Symposium GIS-IDEAS 2012, VNU-HCMC Publishing House, pp. 233-238, Hochiminh City, Vietnam</i>	
	Urban Change Detection by Relationship of Thermal Properties to Vegetation Indices,		<i>Proceedings of the International Symposium GIS-IDEAS 2012, VNU-HCMC Publishing House, pp. 79-84, Hochiminh City, Vietnam,</i>	
	Monitoring Urban Heat Island in Vietnam and its relation to Air quality with remote sensing,		<i>International Workshop on Air Quality in Asia, Hanoi, Vietnam,</i>	
	Evaluate urban thermal environment by remote sensing method to provide additional solutions for urban planning in Hochiminh city,		<i>Proceedings of the International Symposium GIS-IDEAS</i>	
	Tran Thi Van, Bui Thi Thi Y, Ha Duong Xuan Bao, Remote sensing for change detection of surface topography caused by urbanization, , 7-8 December 2014		<i>Proceedings of the International Symposium GIS-IDEAS 2014, Da Nang City, Vietnam</i>	
	Characteristics of Urban Thermal Environment from Satellite Remote Sensing Data in Ho Chi Minh City, Vietnam,		<i>Proceedings of 1<sup>st</sup> International Electronic Conference on Remote Sensing, 22 June to 5 July 2015, online by MDPI, Basel, Switzerland,</i>	

	Detection and Change Evaluation of Surface Topography under Urbanization Process by Remote Sensing in Ho Chi Minh City, Vietnam,		<i>Proceedings of 1<sup>st</sup> International Electronic Conference on Remote Sensing, 22 June to 5 July 2015, online by MDPI, Basel, Switzerland,</i>	
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