

# SCIENTIFIC CURRICULUM VITAE

✓ **Full name:** LE VAN TRUNG

✓ **Sex:** Male

✓ **Place of work:**

*University:* University of Technology

*Faculty:* Environment and Natural Resources

*Department:* Resource and Environmental Informatics

*Position:* Head of Department

✓ **Degree:** Doctoral degree      **Year:** 1997

✓ **Academic title:** Associate Professor

✓ **Contact:**

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✓ **Foreign language:**

<i>No.</i>	<i>Language</i>	<i>Listening</i>	<i>Speaking</i>	<i>Writing</i>	<i>Reading</i>
1	<b>English</b>	x	x	x	x
2	<b>Japanese</b>	x	x		

✓ **Working history:**

<i>Duration</i>	<i>Place</i>	<i>Position</i>
1981 - 1992	HOCHIMINH City University of Technology	Lecturer
1992 -1997	University of Tokyo,	Study for PHD
1999 - 2007	HOCHIMINH City University of Technology	Head of Department
2000 - 2007	Ho Chi Minh City Association of Geomatics	Vice President
2001 - 2007	Union Association of Science and Technology, HCM City	Member
04 - 06/1998	University of Hannover	Science research
5/09/1999 -	Asia Productivity Organization (APO)	To participate

11/09/1999		in training program
1/11/1999 15/11/1999	- Asian Institute of Technology	To participate in training program
2/03/2001 12/03/2001	- GIS Conference	To attend the conference
20 26/09/2002	- Geomatics Conference	To attend the conference
07 15/04/2003	- Geomatics Conference	To participate cooperation program
16 –21/04/2003	International Conference (FIG)	To attend the conference
09 -17/5/2004	Experimental exchange for Remote Sensing	To participate cooperation program
4 -07/10/ 2006	International Conference AUN/SEED- NET Chulalongkorn University	To participate cooperation program
04 - 07/2008	University of Hosei	Visiting Scholar
09 - 12/2011	DUKE University	Visiting Scholar

✓ **Education outline:**

<i>Level</i>	<i>Duration</i>	<i>Place</i>	<i>Field</i>	<i>Title of thesis</i>
Bachelor degree	1981	University of Technology	Geomatics	
Master degree	1994	University of Tokyo, Japan	Civil Engineering	
Doctoral degree	1997	University of Tokyo, Japan	Civil Engineering	

✓ **Research interests:**

- Applying GIS and GPS in transportation planning.
- Applying Remote sensing and GIS in urban management, natural resources management and environmental monitoring.
- Measures for effective use of Location Based System (LBS) such as fleet management and cargo monitoring.
- Applying Neural Networks to solve problems in Satellite Image processing
- Algorithms for measuring and monitoring the changing ocean
- Techniques for monitoring ground subsidence base on using satellite SAR interferometry (InSAR) .
- UAV applications for mapping and urban management

✓ **Selected publication:**

1. Eihan Shimizu and Le Van Trung, On the Architecture of Layered Neural Network for Land Use Classification of Satellite Remote Sensing Image. Proceedings of the 17<sup>th</sup> Asian Conference on Remote Sensing (ACRS), 1996
2. Le Van Trung and Eihan Shimizu, Generalization Performance Indicators for the Statistical Evaluation of Satellite Remotely Sensed Image Classifications. Proceedings of the Japan Conference on Remote Sensing (JSPRS), 1997
3. Sekimoto and Le Van Trung, Application of Neural Networks in Satellite Remotely Sensed Image Classifications. Proceedings of the Japan Conference on Remote Sensing (JSPRS) 1997.
4. Eihan Shimizu and Le Van Trung, Data Compression and Color composite for Satellite Remotely Sensed Images Proceedings of the Japan Conference on Remote Sensing (JSPRS), 1997.
5. Le Van Trung, Layered Neural Network Approach to Land Cover Mapping International workshop “Mapping from Space”, 1998
6. Eihan Shimizu, Morito Tsutsumi and Le Van Trung, Generalization Techniques for Layered Neural Networks in the Classification of Remotely Sensed Images. Japan Society of Civil Engineers (JSCE). page 95-104, 1999

7. Van C. Quoc Anh, Le Van Trung, The integration of GPS and GIS to correct DEM data of Aster image, Proceedings of VN-Japan Conference on GIS-IDEAS, 2004
8. Le Van Trung, Van C.Q. Anh and Ho Tong Minh Dinh, The ability of application of ERS SAR images in Generating DEM Using Insar Technique. Proceedings The 16<sup>th</sup> APEC Workshop on Ocean Models and Information System, 2005
9. Le Van Trung, Van cong quoc Anh and Ho Tong Minh Dinh, DEM Generation Using SAR interferometry Technique based on ERS SAR images  
Proceedings of the 26<sup>th</sup> Asian Conference on Remote Sensing (ACRS), 2005
10. Le Van Trung, Nguyen Thanh Minh. Mapping land surface temperature from satellite imageries. Proceedings of VN-Japan Conference on GIS-IDEAS, 2006.
11. Le Van Trung, Effects of training data on the classification of remotely sensed images. Journal “Science & Technology Development” VNU, Vol. 10, No. 5, 2007
12. Nguyen Thanh Minh, Le Van Trung, Primary results in monitoring sea surface temperature (SST) from Modis imageries, case study: east sea, Viet Nam. Proceedings International Symposium on Geomatics for Spatial-Infrastructure Development in Earth and Allied Sciences, 2008
13. Ho Tong Minh Dinh, *Le Van Trung*, Francesco Sarti , Steffen Dransfeld, Measuring land *subsidence* in ho chi minh city by. means of radar interferometry techniques. Proceedings International Symposium on Geomatics for Spatial-Infrastructure Development in Earth and Allied Sciences, 2008
14. Le Van Trung, Ho Tong Minh Dinh. Measuring ground subsidence in HCM city using differential insar techniques. Journal “Science & Technology Development” VNU, Vol. 11, No.12, 2008
15. [Nguyen Lam-Dao](#), [Thuy Le Toan](#), [Armando Apan](#), [Alexandre Bouvet](#), [Frank Young](#), and [Trung Le-Van](#). Effects of changing rice cultural practices on C-band synthetic aperture radar backscatter using Envisat advanced synthetic aperture radar data in the Mekong River Delta. Journal of Applied Remote Sensing. Vol.3, 2009

- 16.** Le Van Trung. Outline of the Waterlog and Flood Prevention Solutions in HCM City. The 7th FIG Regional Conference "Spatial Data Serving People: Land Governance and the Environment - Building the Capacity" 2009
- 17.** Le Van Trung, Ho Tong Minh Đinh. Monitoring Land Deformation Using Permanent Scatterer INSAR Techniques – Case Study: Ho Chi Minh City. The 7th FIG Regional Conference "Spatial Data Serving People: Land Governance and the Environment - Building the Capacity" 2009
- 18.** Tran Thi Van, Hoang Thai Lan, Le Van Trung. Study on determination of urban surface temperature by thermal remote sensing method. Journal “Science & Technology Development” VNU, Vol. 12, No.4, 2009
- 19.** Cao Thi Kim Tuyen, Le Van Trung. Solutions for dengue fever control using geographic information technology: case of Tien Giang province, Mekong delta, in Viet Nam. Map Asia, 2010
- 20.** Le Van Trung, Dao Minh Tam. Analysis of land subsidence in HCM city using insar dual sensor. Proceedings International Symposium on Geomatics for Spatial-Infrastructure Development in Earth and Allied Sciences, 2010
- 21.** Le Van Trung. Land subsidence, groundwater and urban development in HCM city. Journal “Science & Technology ” VAST, Vol. 49, No.5C, 2011
- 22.** Le Van Trung, Bus management at HCM city using GPS and GIS. Journal “Science & Technology Development” VNU, Vol. 12, No.M1, 2012
- 23.** Le Van Trung, GIS solution in managing underground water at Ho chi minh city. Journal “Science & Technology Development” VNU, Vol. 12, No.M1, 2012
- 24.** Le Van Trung. Managing Land subsidence and Sinkhole in HCM city. Proceedings International Symposium on Geomatics for Spatial-Infrastructure Development in Earth and Allied Sciences, 2012
- 25.** Le Van Trung. GIS for mapping land price of The Tien Giang Province. Proceedings International Symposium on Geomatics for Spatial-Infrastructure Development in Earth and Allied Sciences, 2012

26. Le Van Trung, Nguyen Anh Thi. Implementing and evaluating of high resolution remote imaging system using unmanned air vehicle. Journal “Science & Technology Development” VNU, Vol. 16, No. K2, 2013
27. Le Van Trung. Land subsidence and sinkhole hazard assessment in HCM city. Journal “Science and Technology”VAST, Vol. 51, No. 2B, 2013
28. Le Van Trung, Tran Van Hung. Impacts of sea level rise on Tra Vinh province’s rice production. Journal “Science & Technology Development” VNU, Vol. 12, No. M1, 2014
29. Ho Tong Minh Đình, Le Van Trung, Le Toan Thuy. Mapping ground subsidence phenomena in Ho Chi Minh City through the radar interferometry technique. Using ALOS PALSAR. Journal “Remote Sensing”, Vol. 7, 8543-8562, 2015

✓ **Books:**

- [1]. Le Van Trung. *Remote Sensing*. VNU Public house, 2015
- [2]. Le Van Trung, Lam Dao Nguyen and Pham Bach Viet. *Practice of Remote Sensing*. VNU Public house, 2006.