

# Dr. Feng-Tyan LIN's Curriculum Vitae

Date: April 16, 2006

## A. Basic Data

**Name:** LIN, Feng-Tyan  
**Year of Birth:** 1956  
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**Office address:** No. 1, Sec. 4, Roosevelt Rd., Taipei, Taiwan, R.O.C.  
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## B. Education

<u>School</u>	<u>Nation</u>	<u>Major Department</u>	<u>Degrees</u>	<u>Start/end year.month</u>
Northwestern University	USA	Computer Science	Ph.D.	1987.06 ~ 1989.06
Northwestern University	USA	Computer Science	Master	1985.01 ~ 1987.06
National Cheng Kung University	ROC	Urban Planning	Bachelor	1973.09 ~ 1977.06

## C. Current Position and Related Experiences

<u>Organization</u>	<u>Department</u>	<u>Title</u>	<u>Start/end year.month</u>
(current)			
National Taiwan University	Graduate Institute of Building and planning	Professor	2000.08 ~ now
National Taiwan University	Department of Civil Engineering	Joint Professor	2000.08 ~ now
Academia Sinica	Institute of Computer Science	Joint Associate Researcher	2001.07 ~ now
National Chiao Tung University	Institute of Traffic and Transportation	Concurrent Professor	2001.08 ~ now
National Cheng Kung University	Department of Architecture	Concurrent Professor	2002.02 ~ now
Taiwan Geographic Information Society		Councilman	1994.02 ~ now
National Science and Technology Center for Disaster Reduction	Information Division	Head	2003.07 ~ now
(experience)			
Taiwan Provincial Government	Bureau of Housing and Urban Development	Elementary Engineer	1980.01 ~ 1981.12
Taiwan Provincial Government	Bureau of Housing and Urban Development	Assistant Engineer	1981.12 ~ 1984.07
National Taiwan University	Graduate Institute of Building and planning	Associate Professor	1989.08 ~ 2000.07
National Taiwan University	Department of Civil Engineering	Joint Associate	1997.08 ~ 2000.07

National Taiwan University	Graduate Institute of Industrial Engineering	Professor Joint Associate Professor	1994.08 ~ 1997.06
National Chiao Tung University	Institute of Traffic and Transportation	Concurrent Associate Professor	1997.08 ~ 2001.07
National Chiao Tung University	Institute of Applied Arts	Concurrent Associate Professor	1995.08 ~ 1998.08
Ministry of Interior	Committee of Land Acquisition	Member	2000.04~ 2003.03
Ministry of Interior	Committee of Regional Planning	Member	2003.01~ 2004.12
Taiwan Geographic Information Society		President	2001.02 ~ 2004.12

#### ***D. Academic Specialty***

Geographic Information Systems, Computer Aided Planning and Design, Urban and Regional Information Systems, Informational city, Urban and Regional Planning

#### ***E. Publication***

19 journal papers, 109 conference full papers and 117 essays have been published. While most of them are written in Chinese, the following articles are in English.

##### **(A) Referred papers (in English only)**

- (1) Feng-Tyan Lin (1998), Many Sorted Algebraic Data Models for GIS, International Journal of Geographical Information Science (SSCI), vol. 12, no.8, pp.765-788.
- (2) Feng-Tyan Lin (1999), Accuracy Test and Method Choice for Map Digitization, Journal of the Chinese Institute of Engineers (SCI,EI/SS/RA), vol. 22, no.1, pp.79-86.
- (3) Feng-Tyan Lin (2000), Spatial relationship between the Chelungpu fault and damaged building areas, Journal of the Chinese Institute of Engineers (SCI), vol. 23, no.4, pp.465-472.
- (4) Feng-Tyan Lin (2000), A GIS-based information flow in a land-use zoning review process, Landscape and Urban Planning (SSCI), vol. 52, pp. 21-32.
- (5) Feng-Tyan Lin and H. H. Wang (2001), An abductive propositional logic for design reasoning, Journal of the Chinese Institute of Engineers (SCI), vol.24, no.5, pp.569-579.

##### **(B) Conference Full Papers (in English Only)**

- (1) Feng-Tyan Lin, Jie-Yong Juang, and Der-Tsai Lee (1989), Issues on Solving Many-mathematical Models in Constraint Logic Programming, The Annual Conference of the Rocky Mountain Society for Artificial Intelligence (RMSAI '89).
- (2) Feng-Tyan Lin, Jie-Yong Juang, and Der-Tsai Lee (1989), An Application of Mathematical Constraint Resolution to Decision Support Systems, Computer Software & Applications Conference (COMPSAC '89).

- (3) Feng-Tyan Lin, Shu-Ching Lien (1990), The Impacts of Telecommunications upon Urban Development, The 1990 Conference of Chinese Institute of Urban Planning and Chinese, Japanese, Korean Urban Planning Associations' Academic Exchanges, 1990 Taipei, Symposium, Sept. 11-12, 1990.
- (4) Feng-Tyan Lin, Cheng-Min Feng (1991), "A GIS Approach to Land Use Planning", Pacific Rim Conference on the Resource Management, April 17-19, 1991, pp.463-470.
- (5) Feng-Tyan Lin (1991), "The Structured Walk Method for Urban Land Use Pattern Analysis", GIS/LIS '91, Atlanta, USA, Oct. 30 - Nov. 1, 1991.
- (6) Feng-Tyan Lin (1992), "The Urban Visual Form Simulator", Proc. of URISA'92, Washington D.C., July 12-16, 1992, pp.182-192.
- (7) Feng-Tyan Lin, Jia-Jang Young (1994), "An Algebraic Data Model for GIS", Asia GIS/LIS AM/FM and Spatial Analysis Conference, March, 1994.
- (8) Feng-Tyan Lin, Hunghsiang Wang (1997), "A Case Study of Cooperative Design Using Video Conference", CADDRIA, 1997.
- (9) Feng-Tyan Lin, Hong-Sheng Chen (1997), "Urban Block Logic", CADDRIA 1997.
- (10) Feng-Tyan Lin (1997) Urban Information on Web Sites, International Symposium on City Planning, Nagoya, Japan.
- (11) Feng-Tyan Lin (1997) Community Web Sites in Taiwan, Global Transformation Toward a Sustainable Civil Society, '97 International Conference, Seoul, Korea.
- (12) Hunghsiang Wang and Feng-Tyan Lin (1998), A System for Non-monotonic Reasoning in Design, *Proceedings of Automation '98 and ICPR Asia Meeting*, Taipei, Taiwan, p.155 (abstract and introduction only; full paper in CD-ROM).
- (13) Hong-Sheng Chen and Feng-Tyan Lin (1998), Visualization of Two Dimensional Cellular Automata, *Proceedings of Automation '98 and ICPR Asia Meeting*, Taipei, Taiwan, p.202 (abstract and introduction only; full paper in CD-ROM).
- (14) C.Y. Lin, S.-P. Yang, F.-T. Lin (2000), Strategic Planning for the Post-Earthquake Redevelopment in Lu-Ku, International Symposium on City Planning 2000, International Conference Center, Kobe, Japan, pp.85-94.
- (15) Feng-Tyan Lin, Hunghsiang Wang (2001), Using APL to explore the non-monotonicity in design process, Proceedings of the 19<sup>th</sup> conference on Education in Computer Aided Architectural Design in Europe (ECAADE), 29.-31.8.2001 Helsinki Finland, pp. 131-136.
- (16) Feng-Tyan Lin (2001), The development of local government's spatial databases in Taiwan, World Planning Schools Congress, Shanghai.
- (17) Feng-Tyan Lin (2001), Formulating an informational city: a case study of Kaoshiung, Proceedings of the International Symposium on Urban Planning 2001, Korea, pp. 237-244.
- (18) Feng-Tyan Lin (2001), Extranets of Digital Info-Cities, China International Conference on Digital City Construction Technology & Forum on Digital City in the 21st Century, Guangzhou, pp.121-126.
- (19) Feng-Tyan Lin (2002), An Experience Based Routing Method, the 7<sup>th</sup> Inter-university Seminar on Asian Megacities, March 1-2, 2002, University of the Philippines, Diliman, Quezon city.

- (20) Feng-Tyan Lin (2002), Remotely Sensed Data for Hazard Management, US-Taiwan Workshop on Natural Disaster Reduction, Double Tree Hotel in Rockville, Maryland, July 20 - 21, 2002.
- (21) Feng-Tyan Lin, W. J.Wang, C. T. Chang (2002), An Institutional Mechanism to Establish Information Systems for Comprehensive Plans, Proceedings of International Symposium on Urban Planning 2002, Taipei, Taiwan, Aug. 6-10, 2002, pp. A1-1-1 to 5.
- (22) Feng-Tyan Lin (2002), The Impact and Opportunity of information and communication Technologies on Taipei's Spatial Restructure, Ecity forum, Taipei.
- (23) Hong-Sheng Chen, Feng-Tyan Lin (2003) Simulation Study on Public Buildings' Staircase Fault Tolerance, Digital Design – Research and Practice, Proceedings of the 10<sup>th</sup> International Conference on CAAD Futures, pp. 393-402 .
- (24) Chin-Lung Chang, Yih-Hong Chang, Tyng-Ruey Chuang, Steven Ho, Feng-Tyan Lin (2003), The conversion of a legacy GIS data format to GML format, proceedings of GML Dev Days 2003 (in CD).
- (25) Feng-Tyan Lin, Shih-Hong Lin, Der-Tsai Lee (2004) A Cellular Automata Based Urban Development Simulation for Taipei Metropolitan Area, *Proceedings of Association of European Schools of Planning*, Grenoble University, France, 2004.
- (26) Lan-Ting Clare Tseng, Feng-Tyan Lin (2004) Comprehend the Term ' Info-City ' -- A Comparison between Two Primary Cities in Taiwan, Architecture in the Network Society[22nd eCAADe Conference Proceedings / ISBN 0-9541183-2-4] Copenhagen (Denmark) 15-18 September 2004, pp. 508-514, [http://cumincad.scix.net/cgi-bin/works/Show?2004\\_508](http://cumincad.scix.net/cgi-bin/works/Show?2004_508)
- (27) Feng-Tyan Lin (2004), The Development of Disaster Management Information Systems in Taiwan, 23rd International Fire Chiefs' Association of Asia General Conference, Taipei, Taiwan.
- (28) Chi-Hua Lee and Feng-Tyan Lin (2004) Social Network of Taiwanese Traditional Space, 3<sup>d</sup> Great Asian Streets Symposium, National University of Singapore (CD ROM) .
- (29) Lan-Ting Tseng, Feng-Tyan Lin and Yi-Liang Chen (2005), Denotation of Concepts -- Taking the term 'Community' as an example, eCAADe (Education and Research in Computer Aided Architectural Design in Europe) 23, pp. 205-210, [http://cumincad.scix.net/cgi-bin/works/Show?\\_id=2005\\_205](http://cumincad.scix.net/cgi-bin/works/Show?_id=2005_205)
- (30) Chin-Lung Chang, Yi-Hong Chang, Miller Chiang, Dongpo Deng, Tyng-Ruey Chuang, Feng-Tyan Lin, Steve Ho (2005), Experience in Building GML-based Interoperable Geo-spatial Systems , proceedings of GML Dev Days 2005 (in CD), Vancouver, British Columbia, Canada.
- (31) Pei-Hui Hsu, Shang-Yu Wu, Feng-Tyan Lin (2005), Disaster Management Using GIS Technology - A case study in Taiwan, ACRS 2005, Vietnam.
- (32) Feng-Tyan Lin (2005), A standard procedure for identifying potential disaster areas using GIS in land use planning, International Symposium of urban disaster risk reduction and regeneration planning: integrating practice, policy, and theory, Cal Poly State University, CA, USA.