

CURRICULUM VITAE

1. NAME: Prof. Dr. Tawatchai Tingsanchali

2. DATE OF BIRTH: 2 February 1947

3. NATIONALITY: Thai



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5. ACADEMIC QUALIFICATIONS:

B.Eng. (Hon, Chulalongkorn) in 1968 (Mechanical Eng.)
M.Eng. (AIT) in 1970 (Hydraulic Eng.)
D.Eng. (AIT) in 1974 (Water Resources Eng.)

6. POST DOCTORAL:

1983-84 Research Fellow, Alexander von Humboldt Stiftung, University of Karlsruhe, Germany

1978 Visiting Researcher, Delft Hydraulics Laboratory, Delft, the Netherlands

7. AREAS OF SPECIALIZATION:

- Flood Control, Flood Forecasting and Flood Disaster Management
- River Engineering and Sediment Transport
- Surface and Groundwater Resources

- Hydropower

8. LANGUAGES AND DEGREE OF PROFICIENCY:

- Thai (Mother Tongue)
- English Speaking, Writing and Reading – Excellent

9. EMPLOYMENT RECORD ON ACADEMICS

- Academic Position** (responsibility teaching, research, sponsored research project, outreach and consulting services)

- Senior Full Professor , AIT 1 July 2005 - Present
- Full Professor, AIT July 1988 – June 2005
- Associate Professor, AIT January 1979 - June 1988
- Assistant Professor, AIT January 1975 – December 1978
- Adjunct Faculty, Water Engineering and Management, School of Engineering and Technology, Asian Institute of Technology, 2008- present
- Adjunct Faculty, Department of Civil Engineering, Faculty of Engineering, Sirindhorn Institute of Technology, , 2008- present
- Adjunct Faculty, Department of Civil Engineering, Graduate School of Engineering, Chiang Mai University, 2005- present

A) TEACHING AND THESIS SUPERVISION

1. Teaching in masters and doctoral degrees

Since 1975 taught several Master and Doctoral courses on average 3-4 courses per year such as

- Hydraulics/Hydrodynamics,
- Unsteady Flow in Open Channels
- Numerical Modeling of Unsteady Flow in Open Channels
- Waterways and Flood Plains
- River and coastal sedimentation engineering
- Erosion and sedimentation in rivers and reservoirs
- River Engineering and Flood Control

- Flood Modeling and Management
- Management of Hydropower

2. Student thesis supervision for masters and doctoral degrees

- a. Master theses supervised: 121 Theses from 1976-present
- b. Doctoral theses supervised: 13 Dissertations from 1981-present

10. EMPLOYMENT RECORD ON MAJOR ADMINISTRATION

- Associate Dean, School of Engineering and Technology, AIT, February 2007 - present
- Director, AIT –University of Yamanashi Regional Network office of Center of Excellence for Research and Education on Integrated River Basin Management in Asian Monsoon Region, AIT, June 2005-present
- Chairman, Academic Senate, April 2003 – May 2005
- Vice Chair, Academic Senate, 2001-2002
- Chairman, Academic Accreditation, School of Civil Engineering, 2005-present
- Chairman, Academic Development and Review Committee, 2000-2001
- Chairman, School Forum, School of Civil Engineering, November 1998 – March 2003
- Chairman, Water Resources Engineering Division, February 1985 – January 1987
- Senior Supervisor, Hydraulic Engineering Laboratory, February 1985 – January 1987

11. MEMBERSHIP IN ACADEMIC AND PROFESSIONAL ASSOCIATIONS

Board/Editorial Board Member

- Editorial Board Member, Lowland International Journal, International Association of Lowland Technology (IALT), Japan, July 1999-present
- Editorial Board Member, International Journal of River Basin Management, U.K.,

2005-present

- Editorial Board member, World Association on Soil and Water Conservation Newsletter.
- Editorial Board Member, Open Civil Engineering Journal, Bentham Science Publishers.
- Editorial Board Member, Journal of International Society of Paddy and Water Environment Engineering, Japan (2002-present)
- World Association of Sediment Research (WASER), Beijing, China
- International Water Resources Association (IWRA), Illinois, U.S.A (1998-2000)

Fellow Membership

- American Society of Civil Engineers (ASCE), New York, U.S.A
- International Water Resources Association (IWRA), Illinois, U.S.A
- Engineering Institute of Thailand (EIT), Thailand (Life member)
- Indian Institute of Hydrologists, Roorkee, India (Honorary life member)
- ASEAN Federation of Engineering Organization (AFEO), (Honorary Fellow)

Membership

- Alexander von Humboldt Foundation, Germany (Life member)
- Engineering Council of Thailand
- Engineering Institute of Thailand (EIT) (Life member)
- AIT Alumni Association (Life member)
- International Association for Hydraulic Research (IAHR), Delft, Netherlands
- University Council on Water Resources (UCOWR), Illinois, U.S.A.
- International Association for Hydrological Sciences (IAHS), U.K.
- International Association on Hydrology and Water Resources in Asia and Pacific Region, Japan.
- World Association on Soil and Water Conservation (WASWC), China

12. INTERNATIONAL RECOGNITION

Major Awards

1980 Outstanding Research Award, National Research Council of Thailand

1983 Alexander von Humboldt Foundation Award, University of Karlsruhe, West Germany,

September 1983 to August 1984.(The Alexander von Humboldt Foundation grants research fellowships and awards to highly qualified scholars and scientists of all nationalities on worldwide competitive basis enabling them to undertake research in Germany)

- 1995 Top Honor Award and Honorary Life Fellowship, Indian Association for Hydrologists, Roorkee, India
- 2001 Outstanding Researcher Award in Engineering and Industry of Thailand, National Research Council of Thailand
- 2003 Royal Decoration: Companion (Fourth Class) of the Most Admirable Order of the Direkgunabhorn from H.M. King Bhumibol of Thailand
- 2004 Distinguished Honorary ASEAN Engineer and Distinguished Honorary Life Fellowship Award, ASEAN Federation of Engineering Organizations.

Honors

- Member, Board of Directors, Index International Group Co. Ltd, Bangkok, 2008-present
- Chairman, Thailand Chapter of International Water Resources Association (IWRA), November 1991-present
- Advisor, Irrigation Development Institute, Royal Irrigation Department, Thailand , 2004-present
- Vice President, ASCE Thailand International Chapter, 2004-present.
- Life Fellow of American Society of Civil Engineers (ASCE), 2003-present
- Member of Board of Directors of International Water Resources Association (IWRA) 1997-2001
- Chairman, IWRA Distinguished Lecture Award Committee, International Water Resources Association, August 1995-1997.
- Chairman, IWRA Distinguished Lecture Award Committee, International Water Resources Association, August 1995-1997.
- Member of Governing Board, Engineering Institute of Thailand (EIT), 1985-1988 and 1992-1995, Chairman of Water Resources Engineering Section of EIT, 1999-2001.

- Chairman, International Conference on Urban Engineering in Asian Cities in the 21st Century, Asian Institute of Technology, November, 1996
- Editorial Board Member, Research and Development Journal of Engineering Institute of Thailand, 1992-1995.
- Chairman, International Conference on Environmentally Sound Water Resources Utilization, Bangkok, Thailand, November, 1993
- Executive Committee Member, AIT Alumni Association, 1987-1989.
- Alexander von Humboldt Research Fellow, University of Karlsruhe, Germany, 1983-1984.

13. SPONSORED RESEARCH PROJECTS

1. Effects of Dikes on Flood Flows of the Mekong River near Vientiane, Laos, for Mekong Committee, ESCAP, 1972. One of investigators.
2. Hydrological Investigation for the Hetauda - Narayangarh Road Project, Nepal, for N.D. Lea & Associates Ltd., 1974. One of investigators.
3. Bicol River Basin Flood Control Investigation, Philippines, for USAID/Philippines, 1975. One of investigators.
4. Salinity Intrusion and Flood Control Investigation for Bicol River Basin, Philippines, for USAID/Philippines, 1976. One of principal investigators.
5. Surface Water Supply Study, Bicol River Basin, Philippines, for USAID/Philippines, 1976, Principal investigator. Principal investigator.
6. Water Balance Study, Bicol River Basin, Philippines, for USAID/Philippines, 1976, Principal investigator. Principal investigator.
7. Hydrodynamic Models of the Chao Phraya River System, for National Economic and Social Development Board, Thailand 1978. (Received Outstanding Research Award from National Research Council of Thailand in 1981). Principal investigator.
8. Bangkok Metropolitan Water Distribution System Analysis, for Bangkok Metropolitan

- Water Works Authority; Thailand, 1979. One of principal investigators.
9. Optimum Water Resources Utilization Study, Tachia River Basin, for the Taiwan Power Company, Republic of China, 1979. One of principal investigators.
 10. Supervision on 1979 Flood Forecasting Operation for the Chao Phraya River, for National Economic and Social Development Board; Thailand, 1980. Principal investigator.
 11. Water Balance and Economic Appraisal of Groundwater Development Project in Sukhothai Province, Ministry of Agriculture, Thailand, 1980. Principal investigator.
 12. Salinity Intrusion Problem During Severe Drought in the Chao Phraya River, Thailand, for the Royal Irrigation Department, Thailand, 1980. Principal investigator.
 13. Morphological Study on the Effects of Sand Dredging in the Chao Phraya River, Thailand, for National Economic and Social Development Board, Thailand, 1980. Principal investigator.
 14. Development of Flood Forecasting and Warning System for Nam Pong, Nam Chi & Nam Mun River Basins, Northeast Thailand, for Salzgitter Consult GmbH and Electricity Generating Authority of Thailand, 1982. Principal investigator.
 15. Mathematical Simulation of Spreading and Transport of Pollutants in Rivers, Institute of Hydromechanics, University of Karlsruhe, for Alexander von Humboldt Foundation, Germany, 1985. One of principal investigators.
 16. Optimum Water Resources Utilization Study - Choshui River Basin, Taiwan (ROC), for Taiwan Power Company, R.O.C., Thailand, 1985. One of principal investigators.
 17. Flood Routing and Control Alternatives of the Chao Phraya River for Bangkok, for National Economic and Social Development Board, Thailand, 1985. Principal investigator.
 18. Bangkok Flood Control - Chao Phraya II, for Bangkok Metropolitan Administration, Thailand, 1986. Principal investigator.
 19. Hydraulic Model Study on Lower Mae Ping Project for Lower Mae Ping Barrage Scheme and Mae Wang Diversion Scheme, for Electricity Generating Authority of Thailand, Bangkok, Thailand, 1987. One of principal investigators.

20. A Two-Dimensional Modelling of Thonburi and Samut Prakan West, Thailand, for NEDECO, the Netherlands, 1987. One of principal investigators.
21. Computer Services - Management Consulting Services - Flood Control of Bangkok and Vicinity, for Sverdrup and Parcel and Associates, Inc., Bangkok, Thailand, 1988. One of principal investigators.
22. A Study on Impacts of Thermal Discharge and Ash Pond Effluent on the Receiving Water Environment from 75 MW Lignite Krabi Thermal Plant, for Electricity Generating Authority of Thailand, Bangkok, Thailand, 1991. One of principal investigators.
23. The Study of Hydrology, Water Resources and River Basin in Southeast Asia, for Ministry of Education, Science and Culture, Japan, 1994. One of investigators.
24. Study of Potential Development of Water Resources in the Mae Klong River Basin, Thailand, Prepared for National Economic and Social Development Board, Bangkok, Thailand, 1994. One of principal investigators.
25. Engineering Review of Pantabangan and Masiway Dams (Hydrological Aspect), Prepared for the National Irrigation Administration, Philippines, and 1996 (Baht 2,700,000.00). Principal investigator.
26. Royal Initiatives on Water Resources Development Projects for Metropolitan Waterworks Authority, Prepared for Metropolitan Waterworks Authority, Bangkok, Thailand, 1996 (Baht 4,470,000.00). Principal investigator.
27. Investigation and Design for Improvement of Flood Protection System of Thammasat University, Rangsit Campus, Prepared for the Ministry of Finance, Bangkok, 1996 (Baht 1,420,000.00). Principal investigator.
28. Hydraulic Model Study of Water Pumping from Pumduang River for Irrigation", Prepared for ASPAC and BEST Consultants Co. Ltd., Bangkok, 1999 (Baht 3,610,000.00). Principal investigator.
29. Klong Prapa Corridor Project, A Bridge Over Raw Drinking Water, Prepared for Department of Highways, Thailand, 2000-2004. (Baht 12,122,445.00). One of principal investigators.

30. Development of Rubberized Asphalt from Used Rubber Tire Scrap for Infrastructure Construction”, Prepared for National Metals and Materials Technology Center, Bangkok, Thailand, 2001-2003. (Baht 4,883,900.00). One of principal investigators
31. Development of Master Plan for Management of Water Related Natural Disasters: Floods, Droughts and Landslides, Prepared for Thailand Research Fund, 2004 (Baht 1,692,790.00). Principal investigator.
32. Review and Investigation in Flood Drainage around Suwanna Bhumi, Prepared for Royal Irrigation Department, Thailand, 2004, (Total Baht 18.4 millions). Principal investigator and Team leader
33. Hydraulic and Leakage Investigations in Pipe Networks for Water Supply Distribution in Bangkok (Baht 1,400,000.-) sponsored by ISONET Co., Ltd., Thailand, 2006, Principal investigator and Team Leader
34. Thailand Post Tsunami Sustainable Coastal Livelihoods-Coastal Public Infrastructure and Disaster prevention Element, Consultant Report on Water Resources, Prepared for USAID/AIT, 23 p., 23 p, Hydraulic Consultant.
35. Hydrologic Investigation and Hydraulic Design of Kol Dam, India” Engineering Consultant Report, prepared for Italian Thai Development Co. Ltd., 20 p, 2005, Hydraulic Consultant.
36. Development of River Basin Flood Management System by Optimal Reservoir Operation and Real Time Flood Forecasting and Warning: A Case Study of Pasak River Basin, Sponsored by National Research Council of Thailand,2007 Sponsored by National Research Council of Thailand (Baht 2,000,000.-). Principal Investigator and Team Leader.
37. Regional Network Office of Center of Excellence of Integrated River Basin Management in Asian Monsoon, sponsored by University of Yamanashi, Kofu, Japan., 2007, Project Director.
38. An Assessment of Capacity for Effective Coastal Management: Indonesia Country Assessment, Mangroves for the Future (MFF) Programme, Sponsored by IUCN-The World Conservation Union, One of Investigators, September 2007.

14. FREE LANCE CONSULTING ACTIVITIES

1. Hydraulic engineering consultant (1979) for UNDP OCC/SFProject:INS-700/527, Bandung, Indonesia
2. Flood forecast expert, National Economic and Social Development Board, Thailand (1979)
3. Hydraulic consultant, Sir McDonalds & Partner Co., Ltd., England, (1980)
4. Hydrology consultant in Burma, World Meteorological Organization, United Nations, (1981)
5. Hydrology consultant, World Meteorological Organization, United Nations, (1982-1983)
6. Flood modeling and hydraulic consultant, NACO and Design 103 Co. Ltd., (1983)
7. Flood forecast consultant, National Economic and Social Development Board, 1984
8. Flood control consultant in Indonesia, Jakarta Flood Control and Drainage, Ministry of Public Works, Indonesia, (1986)
9. Pipe network hydraulic expert, Southeast Asia Technology Consultant co, Ltd., (1989-1990).
10. Water resources consultant, Division of Natural Resources, Economic and Social Commission for Asia and Pacific, United Nations, Bangkok (full time 6 months, 1990).
11. Flood control expert, OYO Co., Ltd. Tokyo, Japan (1994)
12. River engineering consultant, Panya Consultant Co. Ltd., (1996-1997)
13. River engineering consultant, ASPAC/SEATEC Consultants Co., Ltd.(1999-2000) and (1997-1999)
14. Flood control consultant, Department of Water Resources Engineering, Kasetsart

University (1999-2001)

15. Hydrology consultant, Unisearch Center, Chulalongkorn University, Bangkok (2002)
16. Flood forecast consultant, German Foreign Office, Germany (2002)
17. Flood management consultant, Panya Consultant Co., Ltd. (2003)
18. Flood control expert, Kol Dam, India, Italian Thai Development Co., Ltd. (2005)
19. Protection of Coastal Erosion of Bang Khun Tien Coast, Bangkok, Thailand for Panya Consultant (2006).
20. Study of Airfield Pavement Areas and Remedial Measures, Suvarnabhumi Airport, IMMS Company Limited, (2007 -2008).

15. PUBLICATIONS (See full list in attachment)

- a. Papers in refereed journal articles: 61 papers
- b. Papers in conference proceedings: 171 papers
- c. Books and monographs: 7 publications
- d. Chapters in books and monographs: 9 publications
- e. Papers in workshops and seminars: 6 papers

16. ATTACHMENT

PUBLICATIONS

a. Refereed journal articles: 54 papers

1. **TINGSANCHALI, T.** and ACKERMANN, N.L. (1976), Effects of Overbank Flow in Flood Computation, Journal of Hydraulics Division, ASCE, New York, U.S.A. July, Vol. 102, No. HY7, Paper 12266, pp.1013 - 1025.
2. **TINGSANCHALI, T.**, ALI ROB, S. and ARBHABHIRAMA, A. (1977), Effects of River Bed Dredging on Water Levels Downstream of Chao Phraya Dam, Engineering Journal of Engineering Institute of Thailand, Bangkok, April, Vol. 2, pp. 27-35.
3. **TINGSANCHALI, T.** and ACKERMANN, N.L. (1978), Closure - Effects of Overbank Flow in Flood Computation, Journal of Hydraulics Division, ASCE, New York, U.S.A., February, Vol. 104, No. HY2, pp.300-302.
4. **TINGSANCHALI, T.** and ARBHABHIRAMA, A. (1979), Hydrodynamic Model Investigation of the Chao Phraya River Basin Thailand, Journal of Federation of Engineering Institutions in Southeast Asia and the Pacific, Vol. 1, No. 3.
5. KHAN, L.R., **TINGSANCHALI, T.** and ARBHABHIRAMA, A. (1980), Estimation of Groundwater Recharge in a Basin Water Balance Study, Journal of Agricultural Mechanization in Asia, Tokyo, Japan, Vol. XI, No. 2, pp. 65-68.
6. **TINGSANCHALI, T.** (1980), Flood Forecast Operation for the Chao Phraya River, Engineering Journal of Engineering Institute of Thailand, Bangkok, September, Vol. 3, pp. 50-54.
7. SIVAKUMARAN, N.S., HOSKING, R. J. and **TINGSANCHALI, T.** (1981), Steady Shallow Flow over a Spillway, Journal of Fluid Mechanics, Cambridge University, Press, Cambridge, England, October, Vol. 111, pp. 411-420.
8. **TINGSANCHALI, T.** (1982), Study on Flood Protection and Flood Warning in Lower Chao Phraya Basin, Engineering Journal of Engineering Institute of Thailand, Bangkok, April, Vol. 2, pp. 73-80.

9. SIVAKUMARAN, N.S., **TINGSANCHALI, T.** and HOSKING, R.J. (1983), Steady Shallow Flow over Curved Beds, Journal of Fluid Mechanics, Cambridge University Press, Cambridge, England, March, Vol. 128, pp. 469-487.
10. **TINGSANCHALI, T.** and MANANDHAR, S.K. (1985), Analytical Diffusion Model for Flood Routing, Journal of Hydraulic Engineering, ASCE, New York, U.S.A., March, Vol. 111, No. 3, Paper 19557, pp. 435-454.
11. **TINGSANCHALI, T.** (1985), Principles of Flood Forecasting, Engineering Journal of Engineering Institute of Thailand, Bangkok, February, Vol.1, pp. 41-44.
12. **TINGSANCHALI, T.** and LIEN, N.D. (1986), Flood Simulation in Tidal Delta of Mekong River by SSARR Model, Water International, Journal of International Water Resources Association, IWRA, University of Illinois at Urbana Champaign, U.S.A., September, Vol. 111, No. 3, pp. 117-126.
13. **TINGSANCHALI, T.** and LIEN, N.D. (1986), Flood Simulation in Tidal Delta of Mekong River by SSARR Model, Water Resources Journal, United Nations - ESCAP, No. E/ESCAP/SER.C/151, Bangkok, Thailand, December, pp. 30 -38.
14. **TINGSANCHALI, T.** (1987), Development of Flood Forecasting and Warning System in Chi and Mun River Basins, Northeast Thailand, Water Resources Journal, United Nations - ESCAP, Bangkok, Thailand, September, No.ST/ESCAP/SER.C/154, pp. 31-44.
15. **TINGSANCHALI, T.** and APICHATVALLOP, A. (1987), Prediction of Salinity Intrusion During Severe Drought in Chao Phraya River, Engineering Journal of Engineering Institute of Thailand, Bangkok, Vol. 3, pp. 94-97.
16. **TINGSANCHALI, T.** (1987), Prediction of Sudden Flood Due to Dam Break, Engineering Journal of Engineering Institute of Thailand, Bangkok, Vol. 4, pp. 73-76.
17. **TINGSANCHALI, T.** and LAL, N.K. (1988), Subsidence of Flood Waves in Overbank Flow Areas, Journal of Hydraulic Research, IAHR, Delft, Netherlands, Vol. 26, No. 5, pp. 585-597.
18. **TINGSANCHALI, T.** and CARRIAGA, C.C. (1989) Optimum Diversion Plan for a Hydropower Scheme, Journal of Water Resources Planning and Management, ASCE, New York, U.S.A., March, Vol. 115, No. 2, pp. 195-211.

19. **TINGSANCHALI, T., VONGVISESSOMJAI, S., and HWANG, G.J.** (1989) Stability Analysis of a 2-D Depth Averaged Model, Journal of Hydraulic Engineering, ASCE, New York, U.S.A., September, Vol. 115, No. 9, pp. 1204-1222.
20. **TINGSANCHALI, T.** (1989), Investigation and Method of Protection of Debris Flow Due to Flash Flood in Nakhon Sri Thammarat Province, Engineering Journal of Engineering Institute of Thailand, Bangkok, Vol. 2, pp. 81-86.
21. **TINGSANCHALI, T.** (1989), Debris Flow Caused By Heavy Rainfall and Landslides, Engineering Journal of Engineering Institute of Thailand, EIT, Bangkok, December, Vol. 1, No. 2, pp. 23-31.
22. **TINGSANCHALI, T. and MAHESWARAN, S.,** (1990), 2-D Depth Averaged Flow Computation Near a Groin, Journal of Hydraulic Engineering, ASCE, New York, U.S.A., January, Vol. 116, No. 1, pp. 71-86.
23. **TINGSANCHALI, T., TONGPUMNUK, S. and SRIKANTHAN, R.** (1990), Application of SSARR, Stanford and Sacramento Models in Northeast Thailand, HYDROSOFT, International Journal of Computational Mechanics Publications, Ashurst, Southampton, U.K., January, Vol.3 No.1, pp.38-44.
24. **TINGSANCHALI, T.** (1990), Flood Protection and Control Investigation in Southeast Asia, Journal of the Japan Society of Civil Engineers (JSCE), Tokyo, Japan, March, Vol. 75, No. 4, pp. 76-80.
25. **TINGSANCHALI, T.** (1990), Chao Phraya 2 Project- A Multipurpose Flood Control Project for Bangkok, Water Resources Series, Urban Flood Loss Prevention and Mitigation in ESCAP Region, No. ST/ESCAP/SER.F/68, pp.81-86.
26. **TINGSANCHALI, T., LOOF, R. and JHA, R.** (1995), Water Resources Utilization in Chao Phraya River Basin with Minimum Water Shortage and Environmental Hazards, Water Resources Journal, ESCAP, United Nations, March, No.ST/ESCAP/SERC/184, pp.90 - 96.
27. **TINGSANCHALI, T. and KITPAISALSAKUL, T.** (1995), Design of Chao Phraya Flood Control System for Bangkok Based on Frequency Analysis of Flood Overtopping River Dikes, Research and Development Journal, Engineering Institute of Thailand, Vol.6, No.2, pp.67-78, December.

28. **TINGSANCHALI, T.** and SUPPARATID, S. (1996), Experimental Investigation and Analysis of HEC-6 River Morphological Model, Journal of Hydrological Processes, John Wiley and Sons, Vol.10, HYP 318, U.K., pp. 747-761,
29. **TINGSANCHALI, T.** and SINGH, P.R. (1996), Optimum Water Resources Allocation for Mekong-Chi-Mun Transbasin Irrigation Project, Northeast Thailand, Water International, Journal of the International Water Resources Association, Vol.21, No.1, U.S.A., pp. 20 - 29, March.
30. **TINGSANCHALI, T.** and CHINNARASRI, C.(1997), Design of River Bank Protection Works: A Case Study of Mekong River, Research and Development Journal of the Engineering Institute of Thailand, Vol.8, No.2, pp. 9-21.
31. **TINGSANCHALI, T.** (1998), Water Resources Development and Management of Mae Klong River Basin, Water Resources Journal, ESCAP, United Nations, September, No. ST/ESCAP/SER.C/198, pp.1-11.
32. **TINGSANCHALI, T.** and KITPAISALSAKUL, T. (1999), Coincident Flood Frequency Analysis for Design of Chao Phraya River Flood Control System for Bangkok, Lowland Technology International, Journal of the International Association of Lowland Technology, Japan, Vol.1, No. 1, June, pp. 35-46.
33. **TINGSANCHALI, T.** and RATTANAPITIKON, W. (1999), 2-D Modeling of Dambreak Wave Propagation on Initially Dry Bed, Thammasat International Journal of Science and Technology, Thammasat University, Thailand, Vol.34, No.3, pp.28-34, November
34. **TINGSANCHALI, T.** and KITPAISALSAKUL, T.(1999), Optimal Risk-based Design of Chao Phraya River Flood Control System for Bangkok, Lowland Technology International, Journal of International Association of Lowland Technology, Japan, Vol.1, No.2, pp.27-40, December.
35. **TINGSANCHALI, T.** and GAUTAM, M.R. (2000), Application of Tank, NAM, ARMA and Neural Network Models to Flood Forecasting, International Journal of Hydrological Processes, John Wiley and Sons Publisher, U.K., Vol.14, pp. 2473-2487.
36. THIMSUWAN, Y. EIUMNOH, A., HONDA, K. AND **TINGSANCHALI, T.** (2000) Estimation of Methane Emission from Deep-Water Rice Field using LANDSAT, TM and

- NOAA-AVHRR: A Case Study of Bangkok Plain, Imaging Sciences Journal, Professional Engineering Publishing Limited, Suffolk, United Kingdom, Vol.48, pp.77-85, October.
37. THIMSUWAN, Y., EIUMNOH, A., HONDA, K. AND **TINGSANCHALI, T.** (2000) Estimation of Methane Emission from Deep-Water Rice Field Using NOAA-AVHRR: Case Study of Bangkok Plain, Asian Journal of Geoinformatics, Asian Remote Sensing Research Information Network and Asian Association of Remote Sensing, AIT, Thailand, Vol.1, No.2, pp.23-31. December.
 38. **TINGSANCHALI, T.** and CHINNARASRI, C. (2001) Numerical Modeling of Dam Failure due to Flow Overtopping, Hydrological Sciences Journal, International Association for Hydrological Sciences, U.K., vol.46, no.1, pp.113-130.
 39. **TINGSANCHALI, T.** and SAHU, M.K. (2001) Effect of Water Withdrawal on Hydraulics and Morphology of Pumduang River, Thailand, Water International, International Journal of Water Resources Association, Illinois, U.S.A., vol.26, No.2, pp.273-282, June.
 40. **TINGSANCHALI, T.** and TAESOMBAT, V. (2001) Probable Maximum Flood for Pantabangan Dam, Republic of the Philippines, Water Resources Journal, ESCAP, United Nations, June, ST/ESCAP/SER.C/209, pp. 48-62.
 41. **TINGSANCHALI, T.** and KITPAISALSAKUL, T. (2002) Capacity Optimization of River Flood Control Structures for Bangkok, Water Resources Journal, ESCAP, United Nations, June, ST/ESCAP/SER.C/212, pp.64-79.
 42. CHINNARASRI, T., **TINGSANCHALI, T.**, WEESAKUL, S. and WONGWISES, S.(2003) Flow Patterns and Damage of Dike Overtopping, International Journal of Sediment Research, Vol.18, No.4, pp. 301-309, Beijing.
 43. CHINNARASRI, C., **TINGSANCHALI, T.** and WONGWISES, S. (2004) A Laboratory Study of Peak Discharge and Erosion Profile during Embankment Overtopping, International Journal of Dam Engineering, Vol. XIV, No. 4, pp. 233-256, UK.
 44. CANICIUS, F., HONDA, K., TOKUNAGA, M., MURAI, S. **TINGSANCHALI, T.** and EIUMNOH, A. (2004) Fusion of Ascending and Descending Pass SAR Intensity and Coherence Images for Mapping Volcanic Deposits; Geocarto International Journal, Geocarto

International Center, Vol.19, No.3, September, pp.43-50, Hong Kong.

45. **TINGSANCHALI, T.**, and WANG, F. (2005) Simulation of Flood Flow over Bangkok Flood Plain by Using Artificial Neural Network, IWA Publishing Journal, Water and Environmental Management Series, Paper No.WEMS06 (River Basin Restoration and Mgt.), pp. 77-86, U.K.
46. **TINGSANCHALI, T.** and KARIM, M.F. (2005) Flood Hazard and Risk Analysis in the Southwest Region of Bangladesh, Journal of Hydrological Processes, Volume 19, Issue 10, pp. 2055-2069, John Wiley and Sons, U.K., June.
47. **TINGSANCHALI, T.** (2005) “Management of Water-related Natural Disasters in Thailand”, International Journal on Hydropower and Dams, Issue no.1, pp. 31-35, Surrey, U.K.
48. WANDEE, P., SCHULTZ, B. and **TINGSANCHALI, T.** (2005) “A Model for Optimisation of Water Management in Rice Polders in Thailand”, Irrigation and Drainage, Journal of International Commission on Irrigation and Drainage, Volume 54, Issue 5, Paper IRD 211, pp. 527-541, Wiley Interscience, U.K., December.
49. KARIM, M.F. and **TINGSANCHALI, T.** (2006) A Nonlinear Coupled Numerical Model for the Investigation on Hydraulic Characteristics of a Composite Seawall, Ocean Engineering, Vol.33, Issue 5-6, pp. 773-787, Elsevier Publishing, Netherlands.
50. **TINGSANCHALI, T.** and BOONYASIRIKUL, T. (2006) “Stochastic Dynamic Programming with Risk Consideration for Transbasin Diversion System.” Journal of Water Resources Planning and Management, ASCE, Vol.132, Issue 2, pp.111-121, New York, U.S.A.
51. WANDEE, P., SCHULTZ, B. AND **TINGSANCHALI, T.** (2006) “Optimization of Water Management in Urban Polders Case Studies of the Netherlands and Thailand”, International Journal of Lowland Technology, Vol.8, Issue 1, Japan, June, pp.11-20.
52. **TINGSANCHALI, T.** (2006) “Flood Drainage in the Area Surrounding Suvarnabhumi

Airport” Journal of Society of Professional Engineers of Thailand, No.30, Bangkok, Thailand, May, pp.33-38.

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