

## Curriculum Vitae



- 1. Name:** Prof. Tawatchai Tingsanchali
- 2. Title:** Emeritus Professor and Distinguished Adjunct Professor  
**Affiliation:** Asian Institute of Technology, Pathumthani, Thailand
- 3. Title:** Special Advisor, Dept. Civil Engineering at Sri Racha  
**Affiliation:** Kasetsart University Sri Racha Campus, Chonburi, Thailand
- 4. Contact Address (Home):** 8/63, Soi Pradipat 15, Pradipat Road, Samsen Nai, Phya Thai, Bangkok Thailand 10400  
**Tel.:** +668-1939-6846 (Mobile)

**Email:** [tawatchait@ait.asia](mailto:tawatchait@ait.asia)

- 5. Date of Birth:** 02 February 1947      **Citizenship:** Thai

### 6. Education:

- D. Eng (Water Resources Engineering) Asian Institute of Technology, Thailand. 1975
- M. Eng. (Hydraulic Engineering) Asian Institute of Technology, Thailand. 1970
- B. Eng. Hons (Mechanical Engineering) Chulalongkorn University, Thailand. 1968

### 7. Post Doctoral Research and Training:

- 1983-84      Post-Doctoral Research Diploma, Alexander von Humboldt Researcher, Institute for Hydromechanics, University of Karlsruhe, Germany (Research: River turbulence modeling, hydraulics and water quality modeling, Institute for Hydromechanics)
- 1978      Visiting Researcher, Delft Hydraulics Laboratory, Delft, the Netherlands
- 1975      SSARR hydrological rainfall runoff modeling, Mekong River Commission, Bangkok, Thailand

### 8. Areas of Specialization:

- Flood Control, Flood Forecasting
- Floods & Droughts Disaster Management
- Water Resources Engineering and Management
- River Hydraulic Engineering and Sediment Transport
- Surface Water and Groundwater Hydrology

### 9. Languages:

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

## 10. Employment Record

### 1. Academic

Position	Affiliation	Period
Special Advisor	Department of Civil Engineering, Kasetsart University, Sriracha Campus, Chonburi, Thailand	Oct 2018-present
Distinguish Adjunct Professor	Asian Institute of Technology (AIT), Pathumthani, Thailand	2008- present
Adjunct Professor	Sirindhorn International Institute of Technology, Pathumthani, Thailand	2008 - 2016
Visiting Professor	Leichtweiss Institute for Water Resources Engineering, Technical University of Braunschweig, Germany	Oct-Nov 2011 and Aug 2013-2015
Chair Professor	Nakhon Pathom Rajabhat University, Nakhon Pathom, Thailand, 73000	1 Feb 2009- 31 Jan 2013
Full Professor	Asian Institute of Technology (AIT), Pathumthani, Thailand	Jul 1988 – Dec 2007
Associate Professor	Asian Institute of Technology (AIT), Pathumthani, Thailand	1 Jan 1979 – 30 Jun 1988
Assistant Professor	Asian Institute of Technology (AIT), Pathumthani, Thailand	1 Jan 1975 – 31 Dec 1978

2. **Consulting engineer and expert** in floods & droughts management and water resources engineering and management

(See list of works accomplished as shown in Section 16 )

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## 11. Major Awards

- 2025 Listed by Stanford University, USA for recognition as one of the World's Top 2% Influential Scientist in Environmental Engineering. based on Elsevier Data Repository
- 2024 Listed by Stanford University, USA for recognition as one of the World's Top 2% Influential Scientist in Environmental Engineering. based on Elsevier Data Repository
- 2023 Listed by Stanford University, USA for recognition as one of the World's Top 2% Influential Scientist in Environmental Engineering. based on Elsevier Data Repository
- 2013-15 DAAD-EXCEED Visiting Professorship Award, Leichtweiss Institute for Water Resources Engineering, Technical University of Braunschweig, Germany.
- 2011 Research Promotion and Development Award, Higher Education Council of Thailand as Visiting Faculty at Leichtweiss Institute for Water Resources Engineering, Technical University of Braunschweig, Germany, Oct-Nov.
- 2004 ASEAN Distinguished Honorary Engineer and Distinguished Honorary Life Fellowship Award, ASEAN Federation of Engineering Organizations.
- 2003 ASCE Life Fellowship Award of American Society of Civil Engineers for Distinction and Significant Achievement in Technical and Professional Contributions to the Civil Engineering Profession.
- 2003 Royal Decoration: Companion (Fourth Class) of the Most Admirable Order of the Direkgunabhorn from H.M. King Bhumibol of Thailand for Devotional Service in Research and Its Findings to the Kingdom of Thailand, to the Religions and to the People of Thailand.
- 2001 Thailand's Outstanding Researcher Award and Prize in Engineering and Industrial Research Based on 26 Year Research Accomplishment, National Research Council of Thailand
- 1995 Top Honor Award for Outstanding Hydrologist and Honorary Life Fellowship, Indian Association for Hydrologists, Roorkee, India
- 1983 Alexander von Humboldt Foundation Award, University of Karlsruhe, West Germany, 1983 -1984 to carry out research with German Professor at University of Karlsruhe, Germany. (The Alexander von Humboldt Foundation grants research fellowships and awards to highly qualified scholars and scientists of all nationalities on worldwide competitive basis Germany)
- 1980 Thailand's Outstanding Research Award and Prize in Engineering and Industrial Research, National Research Council of Thailand

## 12. Fellow/ Membership in Professional Associations:

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**Fellow (highest grade of membership)**

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

**Member**

- Alexander von Humboldt Foundation, Germany (Life member)
- Council of Engineers, Thailand
- 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
- Honorary Rosalind Membership of London Journals Press in 2020, London Journal of Engineering Research (LJER)

**13. Professional and Society Recognition:**

No.	Year Period	Function/Organization
1	2025-2018	Special Advisor, Dept of Civil Eng., Kasetsart Univ., Sriracha Campus, Cholburi, Thailand
2	2025, 2024, 2023	Listed by Stanford University, USA and Elsevier on recognition as one of the World's Top 2% Influential Scientist in Environmental Engineering. based on Elsevier Data Repository
3	2017	Emeritus Professor, Asian Institute of Technology, Pathumthani, Thailand
4	2015	Distinguished Adjunct Faculty, Asian Institute of Technology, Pathumthani, Thailand
5	2011-2016	Advisor of Water Resources Engineering Sub-committee of EIT
6	2005-present	Member, Editorial Board, International Journal of River Basin Management, International Association for Hydro-Environment Engineering and Research IAHR
7	2004-2008	Vice President, ASCE Thailand International Chapter
8	2004-2007	Advisor, Irrigation Development Institute, Royal Irrigation Department, Thailand
9	2000-present	Editor, Journal of Paddy and Water Environment, Springer, International Society of Paddy and Water Environment Engineering (PAWEES).
10	2001	Thailand's Outstanding Best Researcher Award and Prize in Engineering and Industrial Research Based on 26 Year Research Accomplishment, National Research Council of Thailand
11	1999-2001	First Chairman of the Water Resources Engineering Sub-committee of EIT

12	1997-2001	Member of Board of Directors of International Water Resources Association (IWRA)
13	1996	Chairman, International Conference on Urban Engineering in Asian Cities in the 21st Century, Asian Institute of Technology, November
14	1996	Chairman, International Conference on Urban Engineering in Asian Cities in the 21st Century, Asian Institute of Technology, November
15	1995-1997	Chairman, IWRA Distinguished Lecture Award Committee, International Water Resources Association, U.S.A., August
16	1993	Chairman, International Conference on Environmentally Sound Water Resources Utilization, Bangkok, Thailand, November
17	1992-1995	Editorial Board Member, Research and Development Journal of Engineering Institute of Thailand
18	1992-1995	Member of Governing Board, Engineering Institute of Thailand (EIT)
19	1991-2005	Chairman, Thailand Chapter of International Water Resources Association (IWRA), November
20	1990	Founder of Water Resources Engineering Sub-committee of EIT
21	1987-1989	Executive Committee Member, AIT Alumni Association.
22	1985-1988	Member of Governing Board, Engineering Institute of Thailand (EIT)
23	1983-1984	Alexander von Humboldt Research Fellow, University of Karlsruhe, Germany.

#### 14. Countries of Work Experience:

Based in Thailand, my research projects and training programs involved working in countries: Germany, Netherlands, India, Pakistan, Nepal, Myanmar, Thailand, Vietnam, Cambodia, Lao DPR, Malaysia, Singapore, Indonesia, Philippines, Taiwan, Japan.

#### 15. Teaching, Thesis and Research Supervision

- a. **Teaching in doctoral, master, bachelor degrees:** 1975- 2025 taught several courses in hydraulic engineering, river engineering, flood modeling, flood forecasting and flood and drought risk assessment.
- b. **Student thesis supervision:** 132 master theses (1976-2023) and 20 doctoral dissertations (1981-2021)
- c. **Supervised research projects:** 45 projects since 1975-2023

#### 16. Selected Accomplished or On-going Consultancy and Research Projects

**1. Name of assignment or project:** Drought Hazard Assessment for Agricultural Area of Chanthaburi River Basin, Chanthaburi Province, Thailand

**Year:** 2024-2025

**Location:** Thailand

**Sponsor:** Kasetsart University

**Location:** Thailand

**Main project features:** This study introduces an innovative framework for assessing socio-economic drought risk by formulating composite drought hazard and risk indices specifically designed for the windward and leeward zones of mountainous regions in Chanthaburi Province, Thailand. The framework integrates three fundamental components including hazard, vulnerability, and exposure to evaluate the potential impacts of meteorological, hydrological, and agricultural droughts during the historical period (2001–2020) and projected future period (2021–2100). Spatial variations influenced by climate change and land use dynamics are captured by distinguishing between irrigated and non-irrigated agricultural zones. Drought hazards are quantified using the Standardized Precipitation Evapotranspiration Index (SPEI), Standardized Runoff Index (SRI), and Standardized Soil Moisture Index (SSMI), which represent different drought types. Groundwater yield is also incorporated to emphasize its critical role in supporting non-irrigated agriculture within the leeward region. Vulnerability is estimated using drought duration–damage relationships for the economic sector and hazard–damage relationships for the social sector, while exposure is characterized by crop income and the density of farming households according to land use type. By integrating these components, a composite socio-economic drought risk index is developed to estimate expected damages in both economic terms and household impacts. The results indicate that under the RCP4.5 scenario, future drought hazards and risks tend to decline across both regions, whereas under RCP8.5, they are projected to intensify. Overall, hazard and risk levels remain lower in windward agricultural zones compared to leeward areas. To address future drought challenges, the study proposes targeted adaptation measures. Enhancing water-use efficiency in non-irrigated orchards through the application of smart technologies yields the most substantial benefits in both regions. Furthermore, improved water management in irrigated areas and greater utilization of alternative water sources, particularly groundwater is found to be more effective in mitigating damages in the windward region. These adaptive strategies collectively aim to reduce high-risk areas, limit potential damages, and strengthen the resilience of agricultural systems and rural communities under changing climate and land use conditions.

**Positions held:** Project Advisor

**Activities performed:** Overall project supervision, principal investigator of section on analysis and recommendation of adaptation strategies and measures to droughts in the Chanthaburi River basin in East Thailand

**2. Name of assignment or project:** Comprehensive Assessment of Meteo-Hydrological Drought Hazard with Climate and Land Use Change for Agricultural Area: A Case Study of Wang River Basin, Lampang Province,

**Year:** 2023-2024

**Location:** Thailand

**Sponsor:** Kasetsart University

**Location:** Thailand

**Main project features:** In this study, climate change projection was done from Regional Climate Model (RCM) including ACCESS-CSRO-CCAM, CNRM-CM5-CSIRO-CCAM and MPI-ESM-CSIRO-CCAM with Representative Concentration Pathways (RCP4.5 and 8.5). The result shows that the projected precipitation, maximum and minimum temperature of all weather stations are variant from past decade and increasing by 1-2 degree C until 2100. The land use projection was analyzed from past land use maps (2013 and 2016). The projected land use was evaluated under two scenarios (Economic and conservation scenarios). The overall results showed that agricultural land,

miscellaneous land, urban and built-up land, water body are increasing from past and forest land is reducing due to urbanization and deforestation for economic scenario; agricultural land is reducing, forest land is increasing and stabling until 2100, miscellaneous land, urban and built-up land are also increasing for conservation scenario. A hydrological model was used to analyze stream flow in Wang River Basin, Lampang province. It is found that the annual stream flows are reducing from past due to future climate change and land use change. The Standardized Precipitation Evapotranspiration Index (SPEI) and Standardized Runoff Index (SRI) were analyzed for 1, 3 and 6 months for 4 time periods, 2021-2040(2030s), 2041-2060(2050s), 2061-2080(2070s) and 2081-2100(2090s) at seven meteorological stations. For RCP4.5, there is a changing from negative to positive from 2030s to 2090s that is from dry to wet conditions. RCP8.5 change is from positive to negative from 2030s to 2090s that means from wet to dry conditions. SRI values tended to change from positive to negative from 2030s to 2090s for all five sub-basins that is changing from wet to dry conditions. The simulated drought hazard map in Wang River Basin, Lampang Province can be divided into 5 levels: very low, low, medium, high and very high. Drought hazard levels under RCP8.5 in 2030s–2090s tend to be low, medium in 2030s and high in 2090s.

**Positions held: Project Advisor**

**Activities performed:** Overall project supervision, principal investigator of section on analysis and recommendation of adaptation strategies and measures to droughts in the Wang River basin in North Thailand

**3. Name of assignment or project:** ENRICH: Enhancing resilience to future hydro-meteorological extremes in the Mun river basin in Northeast of Thailand

**Year:** 2018-2022

**Location:** Thailand

**Client:** AIT

**Sponsor:** National Research Council of Thailand /Thailand Science Research and Innovation/ UK National Environmental Research Council (NERC)

**Location:** Thailand

**Main project features:** Rainfall in the study area is highly erratic. This unevenness has serious effects on rice production, living conditions and income of farmers who are the main population in the region. A study on the impact of the combined stressors of climate variability, climate change and land-use change on hydro-meteorological extremes in the Mun River basin is necessary to recommend adaptation measures to enable sustainable management of water resources and improve water security in the coming decades.

**Positions held:** Team Leader and Principal Investigator

**Activities performed:** Overall project supervision, principal investigator of section on analysis and recommendation of adaptation strategies and measures to droughts in the Mun river basin in Northeast of Thailand

**4. Name of assignment or project:** River Morphological Study, Flood Hazard Mapping & Establishment of Decision Support System for Sindh Province, Pakistan

**Year:** Completed 2020-2021

**Location:** Sindh Province, Pakistan

**Client:** AIT/ Sindh Irrigation Department, Government of Sindh

**Sponsor:** World Bank/The Islamic Republic of Pakistan

**Main project features:** River Morphological Study, Flood Hazard Mapping & Establishment of DSS for Sindh Province

**Positions held:** Project Advisor

**Activities performed:** Advisory role for hydraulics and flooding modeling. Expert advice on model set-up, calibration and development of breaching scenarios. Expert advice on hazard mapping and impact mapping, DSS for flood forecasting, developing and formulating coping strategies.

**5. Name of assignment or project:** An Approach to Establish MWA Trunk Main Leakage Monitoring System (in Thai)

Year: 2019-2020

**Location:** Bangkok, Thailand

**Client:** Metropolitan Water Work Authority (MWA)

**Sponsor:** Metropolitan Water Work Authority (MWA)

**Main project features:** To analyze and monitor leakage of water supply trunk main of MWA and to propose methods of monitoring considering relationship of leakage and pressure in trunk main

**Positions held:** Project Advisor

**Activities performed:** Advisory role for hydraulics and pipe flow modeling. Advice on model set-up, model verification and development of trunk main leakage monitoring system

**6. Name of project:** CTCN Technical Assistance to Bhutan for Flood risk assessment for Dungsamchu basin in Samdrupjhonkar District.

**Year:** 1 year in 2017-2018

**Location:** Bhutan and Thailand

**Clients:** National Environmental Commission Secretariat, Department of Engineering Services , Bhutan

**Sponsor:** Climate Technology Centre and Network (CTCN)

**Main project features:** to enhance the skills of engineers in the Flood Engineering and Management Division (FEMD) and Samdrupjhonkar municipality of Bhutan in the knowledge and application of flood risk assessment for the Dungsamchhu Basin, and how to translate this assessment into flood adaptation interventions. Flood risk assessment in context of this technical assistance is a function of flood hazard, vulnerability, and exposure. for design of flood risk maps and pilot flood intervention project

**Position held:** Flood management expert in flood hazard, vulnerability and risk assessment

**Activities performed:** Provide guidance data collection for the study, serve as a resource person for the capacity building workshop, provide guidance to engineers for design of flood risk maps and pilot flood intervention project

**7. Name of project:** Feasibility Study on Improvement of Irrigation System of the West Bank of Chao Phraya River and Tha Chin River, Thailand

**Year:** 2016 - 2018

**Location:** Thailand

**Clients:** Joint Venture of Sigma Hydro Consultants, Progress Technology Consultants, S.N.T Consultants and Trans Asia Consultants

**Sponsor:** Royal Irrigation Department,

**Main project features:** Field Survey, Computer Modelling for Improvement and Development of Irrigation System, Flood Control and Drainage

**Positions held:** Project Team Leader (Freelance) and Key Expert

**Activities performed:** Supervision on project technical subjects and on stakeholders/people participation in project meeting and development.

**8. Name of project:** Development of Strategic Plan for Mitigation of Coastal Erosion Problems for 23 Provinces, Thailand

**Year:** 2013 - 2016

**Location:** Thailand

**Client/Sponsor:** Visuddhi Consultant Co. Ltd / Ministry of Natural Resources and Environment, Department of Marines and Coastal Resources, Thailand

**Main project features:** Development of Strategic Plan for Coastal Protection and Development in Thailand

**Positions held:** Project Team Leader (Freelance)

**Activities performed:** Supervision on project technical subjects and on stakeholders/people participation in project development.

**9. Name of project:** Investigation and Establishment of Telemetering System for Flood Forecasting and Warning of Loei River Basin, Thailand

**Year:** 2011-2014;

**Location:** Thailand

**Client/Sponsor:** Sigma Hydro Consultant Co. Ltd. And Loxley Co. Ltd./ Royal Irrigation Department, Thailand.

**Main project features:** Survey, procurement and installation of hydromet telemetering stations, flood simulation and forecasting & warning, people participation, training of client staff.

**Positions held:** Project Team Leader (Freelance)and Key Expert

**Activities performed:** Advisor/Supervisor on all main project

**10. Name of project:** Survey and Installation of Hydromet Telemetering System, Tachin River Basin, Thailand

**Year:** 2012-2013;

**Location:** Thailand

**Client/Sponsor:** Visuddhi Consultant Co. Ltd. & Siam T.C. Technology Co. Ltd./Department of Water Resources, Thailand

**Main project features:** Survey, installation of hydromet telemetering stations, river flow simulation, forecasting & warning, people participation, and training.

**Positions held:** Project Team Leader (Freelance)

**Activities performed:** Supervise project operation and accomplishment

**11. Name of assignment or project:** Investigation on Feasibility and Environmental Impact Assessment Flood Mitigation Project and Water Management, Bangsapan District, Prachuab Khirikhan Province

**Year:** 2009 - 2013

**Location:** Thailand

**Client/Sponsor:** Sigma Hydro Consultant/ Royal Irrigation Department, Thailand

**Main project features:** Flood mitigation and flood early warning

**Positions held:** Flood Key Expert (Freelance)

**Activities performed:** Supervisor on flood modelling and flood forecasting and warning.

**12. Name of project:** Development of Integrated Water Resources Planning and Management of Ping River Basin

**Year:** 2001 - 2003

**Location:** Thailand

**Client/Sponsor:** Sigma Hydro Consultants/Royal Irrigation Department, Thailand

**Main project features:** Water resources development, flood control and mitigation, irrigation project development.

**Position held:** Water Resources Key Expert (Freelance)

**Activities performed:** Supervisor on flood regulation, flood modelling and flood mitigation

**13. Name of project:** Preliminary Study on Water Resources Development Project for Water Supply for Bangkok According to King's Initiatives

**Year:** 1995 - 1996

**Location:** Thailand

**Client/Sponsor:** Asian Institute of Technology/ Metropolitan Waterworks Authority, Bangkok, Thailand

**Main project features:** Investigation for Potential Development and Location of Water Resources for Water Supply Project for Bangkok

**Position held:** Project Team Leader and Water Resources Key Expert

**Activities performed:** Project Supervisor and expert on water supply and delivery system and water resources development.

**14. Name of project:** Development of River Basin Flood Management System by Optimal Reservoir Operation and Real Time Flood Forecasting and Warning: A Case Study of Ta Tapao River Basin, Chumporn Province

**Year:** 2009-2010;

**Location:** Thailand

**Client/Sponsor:** Irrigation Development Institute, Royal Irrigation Department, Thailand/National Research Council of Thailand.

**Main project features:** Flood and low flow mgt.; telemetering and data base mgt., flood modeling, EIA, public participation.

**Positions held:** Project team leader and Flood Key Expert(Freelance)

**Activities performed:** Flood modelling, flood control and drainage alternatives, design and operation study.

**15. Name of project:** Development of Master Plan for Management of Water Related Natural Disasters: Floods, Droughts and Landslides, Thailand

**Year:** 2002-2003;

**Location:** Thailand

**Client/Sponsor:** Asian Institute of Technology /National Research Council, Thailand.

**Main project features:** Survey, data collection, analysis on floods, droughts and landslides, disaster management and mitigation.

**Positions held:** Project Team Leader/Flood and Drought Key Expert

**Activities performed:** Supervision on all activities of main project features as mentioned above.

**16. Name of project:** Development of Flood Forecasting and Warning System for Nam Pong, Nam Chi & Nam Mun River Basins, Northeast Thailand

**Year:** 1982-1983

**Location:** Thailand

**Client/Sponsor:** Asian Institute of Technology/Electricity Generating Authority of Thailand.

**Main project features:** Rainfall runoff modelling, flood flow modelling and calibration, flood flow and forecast simulation.

<p><b>Positions held:</b> Project Team Leader/Hydrology Key Expert</p> <p><b>Activities performed:</b> hydrological, rainfall-runoff analysis, flood routing modelling, rainfall and flood forecasting.</p>
<p><b>17. Name of project:</b> Effects of Dikes on Flood of Mekong River near Vientiane, Laos and Nongkhai, Thailand</p> <p><b>Year:</b> 1972-1973</p> <p><b>Location:</b> Thailand</p> <p><b>Client:</b> Asian Institute of Technology/Mekong River Commission</p> <p><b>Main project features:</b> Hydrological and rainfall-runoff analysis, estimation on effects of dikes on flood of Mekong River near Vientiane, Laos and Nongkhai, Thailand</p> <p><b>Positions held:</b> Flood Modelling and Flood Control Expert.</p> <p><b>Activities performed:</b> Hydraulic engineering &amp; flood modelling expert and estimation of dike effects on Mekong River flood level.</p>
<p><b>And many more projects</b></p>

## 17. Journal Publications (88 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

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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

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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,

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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.
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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.
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**18. Conference Papers (205 papers)** – Below are examples for 2019-2025. Full list available on request.

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  2. PROMPING, P., TINGSANCHALI, T. and NIMPIA, T. (2025) Assessment on Flood Hazard of Different Return Periods in Mueang Phrae District, Phrae Province, Thailand, Proceedings, 30 th National Convention in Civil Engineering, NCCE30, Hua Hin, Petchburi, Thailand, 28-30 May 2025.
  3. SUTTINON, P., TINGSANCHALI, T., MAMAH, I. and KEOLA, S. (2021) Assessment on Flood Damages in Agricultural Sector under Various Flood Risks (ระบบประเมินความเสียหายภาคเกษตรจากความเสี่ยงอุทกภัย), Proceedings, 8th National Conference on Water Resources Engineering, 25-26 November 2021 (2564), AVANI Hotel, HUA HIN RESORT, Petchburi. Thailand (in Thai).
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  8. CHUANPONGPANICH, S. and TINGSANCHALI, T.(2019) Verification of ArcGIS for flood hazard mapping: A case study of Choburi Province, Thailand,

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**19. Research Project Reports (44 reports) – Below are examples for 2019-2022. Full list available on request.**

1. TINGSANCHALI, T. et al (2018-2022) Enhancing Resilience to Future Hydro-meteorological Extremes in the Mun River Basin in Northeast of Thailand (ENRICH), Research Project Report, Asian Institute of Technology and University of Exeter, Sponsored by Thailand Research Fund/National Research Council of Thailand and UK National Environment Research Council, 350 p.
2. PORNPROMMIN, A., JAIKAEAO, C., CHANGKLOM, J., TINGSANCHALI, T. and LIPIWATANAKARN, S. (2020) An Approach to Establish MWA Trunk Main Leakage Monitoring System (in Thai), Research Project Report, Kasetsart University, Sponsored by Metropolitan Waterwork Authority, Thailand.
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4. PROMPING, T., FOYHIRAN, C. and TINGSANCHALI, T. (2023) Drought Hazard Assessment for Agriculture Areas in Wang River Basin under Future Projections of Climate and Land Use Changes, (การประเมินผลกระทบจากภัยแล้งสำหรับพื้นที่เกษตรกรรมในลุ่มน้ำวังภายใต้การคาดการณ์การเปลี่ยนแปลงภูมิอากาศและการใช้ที่ดิน ในอนาคตของประเทศไทย) Sponsored by Kasetsart University, Thailand.
5. PROMPING, T., and TINGSANCHALI, T. (2025) Drought Hazard Assessment for Agricultural Area of Chanthaburi River Basin, Chanthaburi Province, Thailand (การประเมินผลกระทบจากภัยแล้งสำหรับพื้นที่เกษตรกรรมของลุ่มน้ำจันทบุรี จังหวัดจันทบุรี ประเทศไทย) Sponsored by Kasetsart University, Thailand.

**20. Editor-Conference Proceedings, Books and Book Chapters (15) and Other Publications (9 Articles) - Below are examples for 2019-2022. Full list available on request.**

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1. KRON, W., **TINGSANCHALI, T.**, LOUCKS, P. and BOGARDI, J. (2021) Water Related Extreme Events and Their Management, A chapter in Handbook of Water Resources Management: discourse, concepts, examples, edited by Bogardi, J., Tingsanchali, T. et al, Springer, Germany.
  2. BOGARDI, J., **TINGSANCHALI, T.** et al, (2021). Co-Editor, Handbook of Water Resources Management: discourse, concepts, examples. Springer, Germany.
  3. KARIM, F., KHAN, Z. AND **TINGSANCHALI, T.** (2022), Editors, Special Issue on Advances in Flood Frequency and Inundation Modeling: Application of Statistical, Hydrodynamic, Remote Sensing, and Machine Learning Tools, WATER Journal, MDPI, Switzerland.

**21. Resource Person of more than 21 Training Courses and Workshops - Full list available on request**

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