

THANH DUC DANG

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CURRENT RESEARCH INTERESTS

- Hydrological/hydrodynamic modeling
- Remote Sensing
- Structural/slope stability
- Stochastic rainfall generators
- Optimization algorithms

EDUCATION

Mar 2018	Ph.D. , Civil Engineering, University of Canterbury.
Mar 2010	M.Eng. , Civil Engineering, University of New South Wales.
Jun 2007	B.Eng. , Hydraulic Engineering, Thuyloi University.
ongoing	B.Sc. , Information Technology, Viet Nam National University HCMC, University of Science.
Dec 2006	Higher Diploma in Software Engineering (HDSE), APTECH.
Dec 2005	Diploma in Information System Management (DISM), APTECH.

RESEARCH EXPERIENCE

Mar 18 – present	Research Fellow at Pillar of Engineering Systems and Design, Singapore University of Technology and Design.
Mar 14 – Feb 18	Ph.D. candidate / Research Assistant at Department of Civil and Natural Resources Engineering, University of Canterbury.
Jan 11 – Feb 14	Researcher at Institute for Water and Environment Research, Thuyloi University.
Jan 07 – Jun 09	

TEACHING EXPERIENCE

	Teaching Assistant , University of Canterbury, New Zealand.
2014 - 2017	Integrated Catchment Analysis (ENRR320-S1)
2015 - 2017	Water Infrastructure and Design (ENCN444-S1)
2015 - 2016	Fluid Mechanics and Hydrology (ENCN242-S1)
2016	Foundations of Engineering (ENGR101-S1)
2016	Engineering Mechanics (ENGR102-S2)
2016 – 2017	Environmental Engineering (ENCN282-S2)
2017	Ecological and Bioresources Engineering (ENCN405-S1)
2017	Transportation Engineering (ENCN424-S1)

CONSULTING EXPERIENCE

Jan 11 – Feb 14	Civil Engineer / Software Engineer at Center for Water Resources and Climate Change,
Jan 07 – Jun 09	Institute for Water and Environment Research, Thuy Loi University.
Dec 06 – Jun 07	Intern Engineer , Hydraulic Engineering Corporation II.

PUBLICATIONS

1. Lien, T.H.P., Brabyn, L., **Dang, T.D.**, Gouk, H. 2019. A comparison of combination of dimensionality reduction and classification techniques for identifying tree species using integrated QuickBird imagery and Lidar data. *Journal of Applied Remote Sensing* (accepted).
2. Nguyen, U., Lien, T.H.P., **Dang, T.D.** 2019. An automatic water detection approach using Landsat 8 OLI and Google Earth Engine cloud computing to map lakes and reservoirs in New Zealand. *Environmental Monitoring and Assessment* (accepted).

3. Arias, M.E., Holgrieve, G., Ngor, P.B., **Dang, T.D.**, Piman, T. 2019. Maintaining perspective of Ongoing Environmental Change in the Mekong floodplains. *Current Opinion in Environmental Sustainability*, 37: 1-7.
4. Tran, A.D., **Dang, T.D.**, Pham, V.S. 2019. Improved rainfall prediction using combined pre-processing methods and feed forward neural networks. *J* 2(1): 65-83.
5. Nguyen, U., Glenn, E., **Dang, T.D.**, Pham, T.H.L. 2019. Mapping vegetation types in semi-arid riparian regions using random forest and object-based image approach: a case study of the Colorado river ecosystem, Grand Canyon, Arizona. *Ecological Informatics* 50: 43-50.
6. Pham, T.H.L., Vo, Q.T., **Dang, T.D.**, Nguyen, U. 2019. Monitoring mangrove association changes in the Can Gio Biosphere Reserve and implications for management. *Remote Sensing Applications: Society and Environment* 13: 298-305.
7. Hecht, J., Lacombe, G., Arias, M., **Dang, T.D.**, Piman, T. 2019. Hydropower dams of the Mekong River basin: a review of their hydrological impacts. *Journal of Hydrology* 568: 285-300.
8. **Dang, T.D.**, Cochrane, T.A., Arias, M.E. 2018. Quantifying sediment dynamics in mega deltas using remote sensing data: a case study of the Mekong floodplains. *International Journal of Applied Earth Observation and Geoinformation* 68: 105-115.
9. **Dang, T.D.**, Cochrane, T.A., Arias, M.E., Van, P.D.T. 2018. Future hydrological alterations in the Mekong Delta under the impact of water resources development, land subsidence and sea level rise. *Journal of Hydrology: Regional Studies* 15: 119-133.
10. **Dang, T.D.**, Cochrane, T.A., Arias, M.E., Van, P.D.T., de Vries, T. 2016. Hydrological alteration from water infrastructure development in the Mekong floodplains. *Hydrological Processes* 30: 3824-3838.