

### INFORMATION ON DOCTORAL THESIS

1. Full name: Sanya Prasaeuth
2. Sex: Male
3. Date of birth: 14/03/1962
4. Place of birth: Lao
5. Admission decision number: 259 Dated March 16, 2017, of the President of the University of Technology, Vietnam National University, Hanoi.
6. Changes in the training process: Adjust the set of instructions according to Decision No. 165/QD-DT dated February 22, 2019 of the President of the University of Technology, VNU.
7. Official thesis title: **RESEARCH ON DEVELOPMENT OF DEDICATED DATA SYSTEM FOR URBAN MANAGEMENT IN LAOS**
8. Major: Computer Science
9. Code: 9480101
10. Supervisors:
  - Assoc. Dr. Nguyen Thi Nhat Thanh
  - Dr. Bui Quang Hung
11. Summary of the **new findings** of the thesis:
  - A survey of spatial data and urban management in Laos.
  - A proposed application of remote sensing images and artificial intelligence technology to generate spatial data for urban management in Laos.
  - A proposed server architecture model and geospatial-one-stop portal architecture for the NSDI of Laos
12. Practical applicability, if any: Application in the construction and development of Spatial Data Infrastructure for the Lao People's Democratic Republic.
13. Further research directions, if any: Optimize data storage and analysis for the Spatial Data Infrastructure of Laos.
14. Thesis-related publications:
  1. Sanya Praseuth, Dung Pham Tuan, Chuc Man Duc, Hung Bui Quang, Thanh Nguyen Thi Nhat, Mapping land cover types in Vientiane, Laos using multi-temporal composite Landsat 8 images, 6th NAFOSTED Conference on Information and Computer Science (NICS), 2019 (published).

2. Sanya Praseuth, Quang Hung Bui, Quang Thang Luu, Duc Van Ha, Tuan Dung Pham, Dominique Laffly, Spatial Data Infrastructure, Book Chapter, TORUS 2– Toward an Open Resource Using Services: Cloud Computing for Environmental Data, 2020 (published).
3. Sanya Praseuth, Dao Le Quang, Dung Pham Tuan, Hung Luu Viet, Chuc Man Duc, Hung Bui Quang, Son Pham Bao, Annual land cover changes (2013-2023) in Vientiane, Lao PDR using timeseries composite Landsat 8 images, 2023 RIVF International Conference on Computing and Communication Technologies (RIVF), 2023 (published).