

ANH VU VO

Postdoctoral Associate
Center for Urban Science and Progress
New York University
370 Jay Street, 13th floor
Brooklyn, NY 11201
646-997-0579
anhvu.vo@nyu.edu



EDUCATION

- University College Dublin**, Dublin, Ireland
Doctor of Philosophy 2013-2017
Thesis: Spatial Data Storage and Processing Strategies for Urban Laser Scanning
- University of Melbourne**, Victoria, Australia
Master of Engineering Structures 2011-2012
- Ho Chi Minh City University of Architecture**, Ho Chi Minh City, Vietnam
Bachelor of Engineering 2004-2009

PROFESSIONAL EXPERIENCE

- 12/16 – present Postdoctoral Associate, Center for Urban Science and Progress, New York University, U.S.A.
- 09/14 – 10/14 Visiting Researcher, 3D Geo-information, Urbanism, Architecture and the Built Environment, Delft University of Technology, the Netherlands
- 09/09 – 04/13 Lecturer, University of Architecture in Ho Chi Minh City, Department of Civil Engineering, Vietnam

SELECTIVE HONORS, AWARDS, AND RECOGNITION

- First Prize of the 2015 IEEE GRSS Data Fusion Contest (3D Track)**
(IEEE Geoscience and Remote Sensing Society) 2015
- Endeavour Postgraduate Awards** for postgraduate study
(Australian Government) 2011
- Loa Thanh Award** for Excellent Graduation Dissertations
(Vietnamese Ministry of Education and Training, Ministry of Construction, Architect Association, Construction Association and Ho Chi Minh Youth Union) 2009
- Silver Medal - Vietnamese National Mechanics Olympiad** (Strength of Materials)
(Vietnamese Association of Mechanics) 2007

INVITED TALKS (Non-conference)

- "A hybrid indexing strategy for efficient airborne LiDAR data management", Open Geospatial Consortium technical committee meeting, Newfoundland, Canada, June, 2017
- "Where spatial data science meets civil engineering infrastructure", Department of Civil Engineering, Northwestern University, U.S.A., May, 2016
- "3D voxelization and its applications for laser point cloud segmentation", Gist. Section, TU Delft, the Netherlands, October, 2014

JOURNAL REVIEWER CONTRIBUTIONS

Reviewer, Survey Review	2018
Reviewer, ISPRS Journal of Photogrammetry and Remote Sensing	2018
Reviewer, ACM Transactions on Graphics	2017
Reviewer, Pattern Recognition Letters	2015
Reviewer, ASCE Journal of Computing in Civil Engineering	2015

PUBLICATIONS

- A.V. Vo**, N. Chauhan, D.F. Laefer, M. Bertolotto. (Accepted for publication). A 6-dimensional Hilbert approach to index full waveform LiDAR data in a distributed computing environment. In: ISPRS Archives, ISPRS WG IV/7 Symposium, Delft, The Netherlands, October, 2018
- A.V. Vo**, N. Konda, N. Chauhan, H. Aljumaily, D.F. Laefer. (2018). Lessons learned with laser scanning point cloud management in Hadoop HBase. In: Smith I., Domer B. (eds) Advanced Computing Strategies for Engineering. EG-ICE 2018. Lecture Notes in Computer Science, vol 10863. Springer, Cham. DOI: 10.1007/978-3-319-91635-4_13
- D.F. Laefer, **A.V. Vo**, M. Bertolotto. (2018). A spatial-temporal index for aerial full waveform laser scanning data. *ISPRS Journal of Photogrammetry and Remote Sensing*. DOI: 10.1016/j.isprsjprs.2018.01.012
- D.F. Laefer, S. Abuwarda, **A.V. Vo**, L. Truong-Hong, H. Gharibi. (2017). 2015 Aerial Laser and Photogrammetry Survey of Dublin City Collection Record. DOI: 10.17609/N8MQ0N
- A.V. Vo** (2017). Spatial data storage and processing strategies for urban laser scanning. PhD Thesis. University College Dublin, Ireland. DOI: 10.13140/RG.2.2.12798.48962
- A.V. Vo**, D.F. Laefer, M. Bertolotto. (2016) Airborne laser scanning data storage and indexing: State of the art review. *Journal of International Remote Sensing*. 37 (24), 6187-6204. DOI: 10.1080/01431161.2016.1256511
- P. Nourian, R. Gonçalves, S. Zlatanova, K.A. Ohori, **A.V. Vo**, (2016). Voxelization Algorithms for Geospatial Applications: Computational methods for voxelating spatial datasets of 3D city models containing 3D surface, curve and point data models. *MethodsX*, 3, 69-86. DOI: 10.1016/j.mex.2016.01.001
- S. Zlatanova, P. Nourian, R. Gonçalves, **A.V. Vo** (2016). Towards 3D raster GIS: On developing a raster engine for spatial DBMS. In: Proceedings of ISPRS WG IV/2 Workshop: Global Geospatial Information and High Resolution Global Land Cover/Land Use Mapping, Novosibirsk, Russian Federation, April, 2016 (pp. 45-60)

- A.V. Vo**, L. Truong-Hong, D.F. Laefer, D. Tiede, S. d'Oleire-Oltmanns, A. Baraldi, M. Shimoni, G. Moser, D. Tuia. (2015). Processing of extremely high resolution LiDAR and optical data: Outcome of the 2015 IEEE GRSS Data Fusion Contest. Part B: 3D contest. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*. DOI: 10.1109/JSTARS.2016.2581843
- A. V. Vo**, L. Truong-Hong, D. F. Laefer, M. Bertolotto (2015). Octree-based region growing for point cloud segmentation. *ISPRS Journal of Photogrammetry and Remote Sensing*, 104, 88-100. DOI: 10.1016/j.isprsjprs.2015.01.011
- A. V. Vo**, L. Truong-Hong, D. F. Laefer (2015). Aerial laser scanning and imagery data fusion for road detection in city scale. In: 2015 IEEE International Geoscience and Remote Sensing Symposium (IGARSS), Milan, July, 2015. DOI: 10.1109/IGARSS.2015.7326746