

## CV of Dr. Hongsheng Zhang

### 1. Academic Qualification

- PhD (2013), The Chinese University of Hong Kong, Hong Kong
- ME (2010), South China Normal University, China
- BE (2007), South China Normal University, China

### 2. Positions Held (Chronological Order)

- Assistant Professor, Department of Geography, The University of Hong Kong (2019-present)
- Research Assistant Professor, The Chinese University of Hong Kong (2014-2019)
- Research Associate, The Chinese University of Hong Kong (2013-2014)

### 3. Research Areas Related to Ocean Science, Technology and/or Policy

- Dr. Zhang is studying the coastal sustainability using multiple advanced remote sensing technologies, with a focus on the monitoring of mangrove forests and investigating the impacts of human activities on coastal sustainability.

### 4. Funded Research Projects as Principal Investigator (PI), Co-PI or Co-Investigator (Co-I) over the Past 5 Years (Maximum 5 Projects):

- Inter- and intra-annual dynamics of urban impervious surfaces in the Pearl River Delta using deep learning networks from synergized optical and SAR data (as PI), HK\$ 840,000 funded by Research Grants Council (RGC) General Research Fund (GRF) of Hong Kong, (2018-2020)
- Mangrove Species Discrimination in Hong Kong with Synergistic Use of High Resolution Optical and SAR Satellite Data (as PI), HK\$ 480,000 funded by Research Grants Council (RGC) General Research Fund (GRF) of Hong Kong, (2017-2019)
- Improving the estimation of impervious surfaces using optical and polarimetric SAR data in humid subtropical urban areas (as PI), HK\$ 611,000 funded by Research Grants Council (RGC) General Research Fund (GRF) of Hong Kong, (2016-2018)
- Impervious Surfaces Estimation in Subtropical Urban Areas Using Optical and Dual PolSAR Data (as PI) RMB 250,000 funded by National Natural Science Foundation of China (NSFC), (2015-2017)

### 5. Five Key Publications over the Past 5 Years (\*Corresponding author)

- **Zhang, H.S.**, Li, J., Wang, T., Lin, H.\*, Zheng, Z., Li, Y., & Lu, Y. (2018a). A manifold learning approach to urban land cover classification with optical and radar data.

Landscape and Urban Planning, 172, 11-24, IF: 5.144.

- **Zhang, H.S.**, Lin, H.\*, & Wang, Y. (2018b). A new scheme for urban impervious surface classification from SAR images. ISPRS Journal of Photogrammetry and Remote Sensing, 139, 103-118, IF: 6.942.
- **Zhang, H.S.**\*, & Xu, R. (2018). Exploring the optimal integration levels between SAR and optical data for better urban land cover mapping in the Pearl River Delta. International Journal of Applied Earth Observation and Geoinformation, 64, 87-95, IF: 4.846.
- **Zhang, H.S.**, Lin, H.\*, Li, Y., Zhang, Y.Z., & Fang, C.Y. (2016). Mapping urban impervious surface with dual-polarimetric SAR data: An improved method. Landscape and Urban Planning, 151, 55-63, IF: 5.144.
- Zhang, Y.Z., **Zhang, H.S.**\*, & Lin, H. (2014). Improving the impervious surface estimation with combined use of optical and SAR remote sensing images. Remote Sensing of Environment, 141, 155-167, IF: 8.218.

## 6. Awards and Recognition

- Best Poster Award, ESA-MOST DRAGON 4 PROGRAMME, 2018
- Science and Technology Progress Award of Guangdong Province, 2015
- Excellent Young Scientists of NRSCC, Ministry of Science and Technology, China, 2015
- Postgraduate Research Output Award, The Chinese University of Hong Kong, 2013
- Lion Dr. Francis K Pan Scholarship, The Chinese University of Hong Kong, 2013
- Best Paper Award in the 19th International Conference GeoInformatics, 2011