Zhiyi Tang

Ph.D. Candidate, HIT
Email: tang@stu.hit.edu.cn | tangzhi1@hit.edu.cn
Web: zhiyitang.info

Research Interests

Structural Health Monitoring, Anomaly Detection, Deep Learning

Education

Harbin Institute of Technology	Harbin, China	Sep 2016 –

Ph.D., Engineering Mechanics
- Thesis: SHM Data Mining
- Advisor: Yuequan Bao

Harbin Institute of Technology	Harbin, China	Sep 2014 – July 2016

M.S., Civil Engineering
- Thesis: Blind Source Separation of Bridge Multi-Vibration
- Advisor: Hui Li

Harbin Institute of Technology	Harbin, China	Sep 2009 – July 2013

B.S., Theoretical and Applied Mechanics
- Thesis: Long-Span Bridge Aerodynamic Damping Analysis
- Advisor: Hui Li

Journal Publications

1. Bao Yuequan, Tang Zhiyi, Li Hui and Zhang Yufeng. "Computer vision and deep learning–based data anomaly detection method for structural health monitoring". *Structural Health Monitoring* (SHM). 2018.

Work Experience

Asia-Pacific-Euro Summer School (APESS) on Smart Structures Technology	Qingdao & Harbin, China	16 July – 5 Aug 2018

Volunteer
- Curriculum Planning, Daily Life Support, Final Group Project TA
  (https://github.com/dawnnao/APESS2018_Steel_Girder_Crack_ID_dataset)
- Manager: Hui Li

Tibetan Traditional Medical College	Lhasa, China	Aug 2013 – July 2014

Volunteer Teacher
- English Teaching, Non-Profit Public Service Activities
- Manager: Tsering

Teaching Experience

Harbin Institute of Technology   Harbin, China   Sep 2016 – Nov 2016
Teaching Assistant
- Developed course material and assignments for structural health monitoring of civil infrastructure
- Instructors: Hui Li, Yuequan Bao

Award and Honors

Best Performance Award - 2nd Prize (8 groups) in APESS 2017, Yokohama	2017
JSTI co. Structural Health Monitoring Graduate Fellowship (3 over 200+ yearly)	2016
HIT Graduate Scholarship	2014 – 2016
Source of Love Scholarship for Volunteers	2014
HIT Best Thesis for Undergraduate (100 over 6,000+ yearly)	2013
Xianzi Zeng Scholarship for distinguished undergraduates	2010 – 2013
HIT Dong Liang Scholarship for top grades undergraduates	2010

Computer Skills

Python, MATLAB, JavaScript, R, ANSYS, HTML, CSS, LaTeX , Linux, Mac