

1. Development of a PXI/SCXI-based data acquisition system for structural health monitoring of the 4th Qianjiang Bridge (2002-2005, Principal investigator of contract research project, RMB341,800);
2. Consultation at tendering stage for Wind and Structural Health Monitoring System of the cable-stayed Stonecutters Bridge with a main span of 1,018 m (2003-2004, Project manager of consultancy project, HK\$80,000);
3. Design of a long-term structural health monitoring system for the world's longest cable-stayed bridge – Sutong Bridge with a main span of 1,088 m (2003-2008, Project manager of consultancy project, RMB1,628,000);
4. Upgrade of the long-term structural health monitoring system for the suspension Jiangyin Bridge with a main span of 1,385 m (2004-2009, Project manager of consultancy project, RMB4,856,500);
5. **Independent structural appraisal of a cable-stayed bridge in Vietnam under in-service condition** (2008-2008, Project manager of consultancy project, HK\$78,000);
6. Monitoring data processing and structural modelling of Lai Chi Kok Viaduct – Route 8 in Hong Kong (2008-2009, Project manager of consultancy project, HK\$250,000);
7. Establishment of bridge rating system for Tsing Ma Bridge (2005-2010, Co-investigator of contract research project, funding support from HKSAR Government Highways Department and HKPolyU, HK\$2,093,000);
8. Non-destructive monitoring system for the hanging gears of exhibit “TA-14 The DE-3” (DC-3 Plane) at the Hong Kong Science Museum (2010-2011, Project manager of consultancy project, HK\$436,000);
9. Development of a long-term structural health monitoring system for the Canton Tower with a total height of 610 m (2007-2012, Project manager of consultancy project, RMB7,765,000);
10. Development of a data acquisition and remote monitoring/control system for hybrid vibration control of the Canton Tower (2009-2012, Project manager of consultancy project, RMB3,350,000);
11. Supervision of the development of a long-term structural health monitoring and bridge management system for the Qingdao Bay Bridge (2009-2012, Project manager of consultancy project, RMB2,796,000);
12. Development of a high-tech demo system integrating structural health monitoring, vibration control, wind and solar power generation technologies for the Canton Tower (2010-2011, Project manager of consultancy project);
13. Development of a multi-level active ship-collision protection and monitoring system for the 2nd Jiaojiang (cable-stayed) Bridge (2010-2013, Principal investigator of contract research project, funding support from the Transport Bureau of Zhejiang Province, China);

14. Structural health monitoring of hanging gears at Exhibit “TA-14 The DE-3” (DC-3 Plane) of Hong Kong Science Museum (2011-2013, Project manager of consultancy project, HK\$280,000);
15. Development of a long-term structural health monitoring system for the New Headquarters of Shenzhen Stock Exchange (a 45-storey tall building) (2009-2014, Project manager of consultancy project, RMB2,396,660);
16. Development of structural health prognosis tools for evaluation of Stonecutters Bridge under in-service conditions (a cable-stayed bridge with a main span of 1,018 m) (2009-2015, Co-investigator of contract research project, funding support from HKSAR Government Highways Department, HK\$1,400,000);
17. Supervision of the development of a long-term structural health monitoring system for the Xiangshan Harbor Bridge (2011-2014, Project manager of consultancy project, RMB460,000);
18. Development of a structural health monitoring system for the Guangzhou Fortune Center (a 72-storey tall building with a height of 309 m) (2011-2014, Project manager of consultancy project, RMB419,505);
19. Structural health monitoring of hanging gears for the DE-3 aircraft on display at the Hong Kong Science Museum (2013-2014, Project manager of consultancy project, HK\$340,000);
20. Development of sensors and data acquisition system for monitoring galloping of power transmission lines (2013-2014, Principal investigator of contract research project, funding support from State Grid HAEPIC Electric Power Research Institute, RMB350,000).
21. Implementation of sensory systems to the Link Road of Hong Kong-Zhuhai-Macau Bridge (2013-2015, Project manager of consultancy project, RMB1,867,170);
22. Consultancy study on the use of fibre Bragg grating sensor system for monitoring structural integrity of Dongjiang Water Mains (29/2/2012-31/8/2015, Principal investigator of contract research project No. K-ZB57, funding support from HKSAR Government Water Supplies Department, HK\$1,129,312);
23. Damage detection of rail tracks based on piezoelectric energy technique (2014-2017, Principal investigator of contract research project, funding support from Southwest Jiaotong University Railway Development Co. Ltd., RMB400,000);
24. Onboard monitoring and condition assessment of high speed trains running on Lanzhou-Urumqi High Speed Railway (2015-2017, Principal investigator of contract research project, funding support from CRRC Changchun Railway Vehicle Co., Ltd., RMB850,000);
25. Onboard bogie condition monitoring of Rio Metro trains under service conditions (2015-2016, Principal investigator of contract research project, funding support from CRRC Changchun Railway Vehicle Co., Ltd., RMB1,000,000);

26. Independent checking of design of Saab vessel height detection system for Tsing Ma Bridge (2015-2016, Project manager of consultancy project, HK\$80,000);
27. Provision of the structural assessment of “The Flying Frenchman” at the Hong Kong Cultural Centre (2016-2017, Project member of consultancy project, HK\$180,000);
28. MTR C803 detailed design of XRL tunnels and associated structures (north) - tunnel seismic design review study (2016-2017, Project member of consultancy project, HK\$60,000);
29. Development of structural condition rating system for inspection and maintenance of Stonecutters Bridge under in-service conditions (a cable-stayed bridge with a main span of 1,018 m) (2010-2018, Principal investigator of contract research project, funding support from HKSAR Government Highways Department, HK\$1,320,000).