Li Rixin

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Education

Ph.D. candidate in Telecommunication Engineering, **Politecnico di Torino, Italy, start from 2013 till now**

M.Sc. in Telecommunication Engineering, **Politecnico di Torino, Italy, 2012**
Thesis**:** Two-Dimensional Displacement Sensor Based on Plastic Optical Fibers

B.Sc. in Communication Engineering, **Harbin Institute of Technology, China, 2010**
Thesis**:** Research on CFDP file transmission system in deep space communication system

Research Experience

PhD Research, Politecnico di Torino, 2014
Advisor: Prof. Ander Carena and Prof. Vittorio Curri
- Analyze Time Division Hybrid Modulation Formats(TDHMF) based on square QAM, and report back-to-back performance vs. Bps in four different transmission strategies.
- Evaluate the Maximum-reaches in propagation for a C-band 50 GHz grid on uncompensated links.

Graduate Research, Politecnico di Torino, 2012
Advisor: Prof. Alberto Vallan
- Propose a new scheme with low cost fiber optic sensor for measuring displacements along two directions and particularly designed for monitoring cracks in walls. Studying the sensor working principal and propose a sensor location detection algorithm.
- Designed a sensor matrix for large detection range.

Publications and Proceedings

- Xinyi Hu, Rui Fang, Rixin Li and Qing Guo, Review of OFDM technology(In Chinese), Communication Technology[J], p132-134, August, 2010.
- Rixin Li, Paula Cortada, Vittorio Curri, Andrea Carena, FLEX-PAM MODULATION FORMATS FOR FUTURE OPTICAL TRANSMISSION SYSTEM, FOTONICA2015.
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Research Interest

Designing, engineering, implementation of ultra-high capacity long-haul optical systems and network; Time division hybrid modulation format.

Personal Skills

Language
- Chinese, native speaker of Mandarin
- TORFL 95/120, proficiency in both written and spoken English

Computer
- Familiar with Microsoft office software
- Frequent user of Matlab, OptSim

Interests
- Sport, reading