Zeng Peng

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Google Scholar: https://scholar.google.com/citations?user=BsABDKkAAAAJ

EDUCATION

M.Sc. in Optical Engineering Supervisor: *Liyang Shao* Sep. 2018 - Present
Harbin institute of Technology, China &
Southern University of Science and Technology, China

B.S. in Opto-electric Information Science and Engineering Sep. 2014 - Jun. 2018
Changchun University of Science and Technology, China

JOURNAL PUBLICATIONS

1. Xingliang Shen, Guoqiang Gu, Liyang Shao, **Zeng Peng** et al. "Photonic hook generated by twin-ellipse microcylinder." IEEE Photonics Journal. (2020).
2. Guoqiang Gu, Liyang Shao, Jun Song, Junle Qu, Kai Zheng, Xingliang Shen, **Zeng Peng** et al. "Photonic hooks from Janus microcylinders." Optics Express 27, no. 26 (2019): 37771-37780.
3. Guoqiang Gu, Xingliang Shen, **Zeng Peng** et al. "Numerical investigation of photonic nanojets generated from D-shaped dielectric microfibers." In Advanced Optical Imaging Technologies II, vol. 11186, p. 111861H. International Society for Optics and Photonics, 2019.

RESEARCH EXPERIENCE

Photonic Nanojets & Photonic Hooks 2019
Keywords: COMSOL FEM simulations

Surfaced enhanced Raman Scattering 2019
Keywords: Spin coating, E-beam evaporating, COMSOL FEM simulations

PROJECT EXPERIENCE

Distance Measurement System based on Binocular Vision 2017
Keywords: OpenCV

Research on Key Technology of Unmanned Vehicle based on Lidar 2016
Keywords: MRPT, ICP, Socket, Lidar, RaspberryPi, MFC

Gesture Controlled Screen based on Single-line Lidar 2016
Keywords: MRPT, Lidar, OpenCV

Airdrop Rescue Unmanned vehicle based on Opto-electric Target recognition 2016
Keywords: OpenCV, RaspberryPi, APM, MFC

Indoor 3D Reconstruction based on Depth Camera and Quadrotor UAV 2016
Keywords: Kinect, PCL, Socket, TCP, OpenCV

Camera Pose Detection Tool for Compound Eye Project 2015
Keywords: OpenCV, MFC

Opto-electric Intelligent Ping-pong ball Collecting car 2015
Keywords: OpenCV, MFC, Arduino

HONORS & AWARDS

- ✧ Third prize in Jilin Province "Challenge Cup" College Students Extracurricular Science and Technology Competition, 2017
- ✧ Special Prize in Innovative Practice Training Program, Chinese Academy of Sciences, 2016
- ✧ Third Prize in National Opto-electric Design Competition, 2016
- ✧ Second Place in CUST Opto-electric Design Competition, 2015

SKILLS

Language: IELTS [6.0] CET6 [521]
Programming & Software: C, C++, MATLAB, Python, OpenCV, PCL, Arduino, Linux, COMSOL, LabVIEW