ZeruiWANG a Ph.D. candidate who is obsessed by robotics

about Room 112 ERB CUHK Shatin, N.T. Hong Kong	educat	ion
	since 2013	Ph.D. in Mechanical & Automation Engineering Cumulative GPA: 3.917/4 Research interests: Safety mechanism design in robotic surgery Visual servoing in surgical robot
zerui.j.wang@gmail.com www.wangzerui.com gh://zrwang In://zrwang fb://zrwang	2012	Exchange in Europe TU Delft, VUB, U-PSUD, ECP, ISAE Most selective elite delegation among students (top 0.75%)
	2009–2013	BEng. in Quality and Reliability Engineering Overall GPA: 3.84/4 (90.04/100) Rank 1st in School of Reliability & System Engineering
g+://zrwang tw://zrwang	2006–2009	Senior high school student Top 0.18% in the National College Entrance Examination
languages Chinese English		The 1st Prize in National Olympiad in Informatics The 2nd Prize in Chinese Physics Olympiad Nominated as Excellent Student for three consecutive years
programming C++/C Python	Honors & Awards	
	Aug. 2013	Awardee of Hong Kong PhD Fellowship
	Nov. 2012	Champion of Innovative Underwater Robot Design China Robot Contest & RoboCup Open
	Jul. 2012	The 2nd-Prize in National University Mechanical Innovation Competition (10%)
	Dec. 2010	The 2nd-Prize in National Undergraduate Physics Competition (7.5%)
	Nov. 2010	National Scholarship for University Students (2.6%)
	Nov. 2011	Excellent Students Awards of Beijing (1.1%)
	Nov. 2011	Elite Student of Beihang University (3%)
	Mar. 2012	Outstanding Student Award, Yang Weimin Special Scholarship (0.8%)
	Dec. 2011	The 2nd-Prize Scholarship of Academic Contest (3%)
	2010-2012	The 1st-Prize Scholarship of Science and Engineering Contest (7%)
	2010-2012	The 1st-Prize Scholarship of Academic Performance (3%)

publications

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Journal

Design of a Novel Compliant Safe Joint with Multiple Working States for Robotic Surgery Z. Wang, H. M. Yip, D. Navarro-Alarcon, P. Li, Y.-H. Liu IEEE/ASME Trans. Mechatronics (2015). 2015

Development of an Assistive Surgical Robot for Laparoscopic Hysterectomy

H. M. Yip, Z. Wang, D. Navarro-Alarcon, P. Li, Y.-H. Liu, T. H. Cheung, Y. Fu IEEE/ASME Trans. Mechatronics (2015). 2015

Automatic 3D Manipulation of Soft Objects by RCM Robotic Instruments with Adaptive Deformation Model

D. Navarro-Alarcon, H. M. Yip, Z. Wang, Y.-H. Liu, P. Li IEEE Trans. Robot. (2015). 2015

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Conference

Design and Control of a Novel Multi-state Compliant Safe Joint for Robotic Surgery

Z. Wang, P. Li, D. Navarro-Alarcon, H. M. Yip, Y.-H. Liu, W. Lin, L. Li *IEEE Int. Conf. Robotics and Automation*, 2015

A New Robotic Uterine Positioner for Laparoscopic Hysterectomy with Passive Safety Mechanisms: Design and Experiments

H. M. Yip, Z. Wang, D. Navarro-Alarcon, P. LI, Y.-H. Liu *IEEE/RSJ Int. Conf. Intelligent Robots and Systems*, 2015

Gradient Descent Adaptive Methods to Automatically Position 3-DOF RCM Mechanisms with a Monocular Camera

D. Navarro-Alarcon, H. M. Yip, Z. Wang, Y.-H. Liu, W. Lin, P. LI *IEEE/RSJ Int. Conf. Intelligent Robots and Systems*, 2015

A New Robotic Uterine Positioner for Laparoscopic Hysterectomy with Passive Safety Mechanisms: Design and Experiments

W. Lin, D. Navarro-Alarcon, P. Ll, Z. Wang, H. M. Yip, Y.-H. Liu *IEEE/RSJ Int. Conf. Intelligent Robots and Systems*, 2015

A Method to Regulate the Torque of Flexible-joint Manipulators with Velocity Control Inputs D. Navarro-Alarcon, Z. Wang, H. M. Yip, Y. Liu, P. Li, W. Lin

IEEE Int. Conf. Robotics and Biomimetics, 2014

A new circular-guided remote center of motion mechanism for assistive surgical robots

H. M. Yip, P. Li, D. Navarro-Alarcon, Z. Wang, Y.-H. Liu

IEEE Int. Conf. Robotics and Biomimetics, 2014