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

about Room 112 ERB CUHK Shatin, N.T. Hong Kong zerui.j.wang@gmail.com www.wangzerui.com gh://zrwang In://zrwang fb://zrwang g+://zrwang	education			
	since 2013	Ph.D. in Mechanical & Automation Engineering Cumulative GPA: 3.917/4 Research interests: Safety mechanism design in robotic surgery Visual servoing in robotic surgery (soft tissue manipulation, dissection and suturing		
	2012	Exchange in Europe T Most selective elite delegation among students (U Delft, VUB, U-PSUD, ECP, ISAE 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 Engin	Beihang University	
tw://zrwang languages Chinese English	2006–2009	Senior high school student Top 0.18% in the National College Entrance Exa The 1st Prize in National Olympiad in Informatics The 2nd Prize in Chinese Physics Olympiad Nominated as Excellent Student for three conse	5	
programming C++/C Python				
	honors	nors & 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%)		
		(2.070)		
	Nov. 2011	Excellent Students Awards of Beijing (1.1%)		
	Nov. 2011 Nov. 2011	Excellent Students Awards of Beijing		
		Excellent Students Awards of Beijing (1.1%) Elite Student of Beihang University	pecial Scholarship	
	Nov. 2011	Excellent Students Awards of Beijing (1.1%) Elite Student of Beihang University (3%) Outstanding Student Award, Yang Weimin Sp	·	
	Nov. 2011 Mar. 2012	Excellent Students Awards of Beijing (1.1%) Elite Student of Beihang University (3%) Outstanding Student Award, Yang Weimin Sp (0.8%) The 2nd-Prize Scholarship of Academic Cont	est	

publications

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Journal

Design of a Novel Compliant Safe Robot Joint with Multiple Working States

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

IEEE/ASME Trans. Mechatronics, revised and resubmitted (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, under review (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., under review (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. LI, 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

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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