

The Chinese University of Hong Kong
Shun Hing Institute of Advanced Engineering
List of Publications Arising from SHIAE Supported Projects
(Batch 2007)

Project code	Publication
BME - 8115012	[1] K. L. Wu, P. A. Heng, X. Gao, Y. M. Xie, J. Chen, and M. Zhang, "Development of The First Chinese Electromagnetic Human Model and Its Use for SAR Calculations," Proc. Asia-Pacific Microw. Conf., Hong Kong, Dec. 2008 .
	[2] Lei Zhao, and Ke-Li Wu, "An Analysis of A Dipole Antenna Near A Prolate Head Model Using A Hybrid NFM/MoM Approach," Proc. Asia-Pacific Microw. Conf., Singapore, Dec. 2009 .
	[3] Lei Zhao, and Ke-Li Wu, "Simulation of Human Head Exposed to Handset Using Hybrid NFM/MoM Techniques," Proc. IEEE Electrical Design of Advanced Packaging & Systems Symposium, Hong Kong, Dec., 2009 .
BME - 8115013	[1] Shenyang Huang, Philip C. Ashworth, Kanis Wai Chi Kan, Chen Yang, Vincent P. Wallace, Yuan-ting Zhang and Emma Pickwell-MacPherson, "Improved sample characterization in terahertz reflection imaging and spectroscopy", Optics Express, Vol. 17 Issue 5, pp.3848-3854 (2009) . Selected for the Virtual J. Biomedical Optics http://vjbo.osa.org/virtual_issue.cfm .
	[2] S Y Huang, Y X Wang, K W Yeung, Y-T Zhang and E Pickwell-MacPherson, "Tissue characterisation using terahertz pulsed imaging in reflection geometry". Phys. Med. Biol. 54 (2009) 149-160.
	[3] S.Y. Huang, Y.X. Wang, J Yuc, A.T. Ahuja, Y.T. Zhang, V.P. Wallace, and E. Pickwell-MacPherson, "Terahertz Pulsed Imaging of Liver Cirrhosis", The International Conference on Infrared and Millimeter Waves/THz Electronics (IRMMW-THz) , Korea 2009 .
	[4] S.Y. Huang, Y.X. Wang, David K.W. Yeung, Y.T. Zhang, V.P. Wallace, and E. Pickwell-MacPherson, "Characterizing Rat Tissue Samples Using Terahertz Pulsed Imaging", THz-IRMMW, Cal-Tech, USA, 2008 .
	[5] W.C. Kan, W.S Lee, W.H. Cheung and E Pickwell-MacPherson, "Imaging of Osteoarthritis using a Hand-held Terahertz Probe", THz-IRMMW, Korea 2009
	[6] W. C. Kan, W S Lee, W. H. Cheung and E Pickwell-MacPherson, "A Pilot Study of Terahertz Pulsed Imaging of Osteoarthritis", THz-IRMMW Cal-Tech, USA 2008 .
	[7] W. C. Kan, W. H. Cheung and E MacPherson, "Terahertz Pulsed Imaging of Osteoarthritis", 5th International Workshop on Wearable and Implantable Body Sensor Networks, Hong Kong June 2008 .
	[8] E. Pickwell-MacPherson, WC Kan, WS Lee, V P. Wallace and W H Cheung, "Application of Terahertz Imaging to Osteoarthritis", IEEE International Microwave Symposium (IMS), Atlanta, USA, 2008 .
	[9] E. Pickwell-MacPherson, Y. Chen and W.K. Ku "Terahertz Pulsed Imaging – a potential medical imaging modality?", Terahertz Diagnostics and Treatments (TDT), Russia, July 2009
	[10] Y.W Sun, E Pickwell-MacPherson, "The Effects of Formalin Fixing on Terahertz Properties of Biological Samples", THz-IRMMW, Cal-
	[11] Chen Yang, E Pickwell-MacPherson, "Stationary-wavelet Regularized Inverse Filtering: A Robust Deconvolution Approach for Terahertz Reflection imaging", THz-IRMMW, Korea 2009 .

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MMT - 8115014	[1] Jinzhou Chen; Wei-Hsin Liao, "Design and control of a Magnetorheological actuator for leg exoskeleton," Robotics and Biomimetics, 2007. ROBIO 2007. IEEE International Conference on , vol., no., pp.1388-1393, 15-18 Dec. 2007
	[2] CHEN Jinzhou and LIAO Wei Hsin. "Development and Testing of a Magnetorheological Actuator for an Assistive Knee Brace" Proceedings of SPIE Conference on Smart Structures and Materials, SPIE Vol. 6928, 9-13 March 2008
	[3] J.Z. Chen and W.H. Liao, "Design and Testing of Assistive Knee Brace with Magnetorheological Actuator," Proceedings of 2008 IEEE International Conference on Robotics and Biomimetics, pp. 512-517, 21 - 26 February 2009.
	[4] H.T. Guo and W.H. Liao, "Integrated Design and Analysis of Smart Actuators for Assistive Knee Braces," Proceedings of SPIE Conference on Smart Structures and Materials: Active and Passive Smart Structures and Integrated Systems 2009, SPIE Vol. 7288, 72881U1-11, doi: 10.1117/12.815964, 9-12 March 2009.
	[5] H.T. Guo and W.H. Liao, "Magnetorheological Fluids Based Multifunctional Actuator for Assistive Knee Braces," Proceedings of 2009 IEEE International Conference on Robotics and Biomimetics, pp.1883-1888, 19 - 23 December 2009.
	[6] H.T. Guo and W.H. Liao, "Design and Control of Multifunctional Magnetorheological Actuators for Assistive Knee Braces," Proceedings of SPIE Conference on Smart Structures and Materials: Active and Passive Smart Structures and Integrated Systems 2010, SPIE Vol. 7643, 764310 (11 pages); doi:10.1117/12.847530, 7-11 March 2010.
	[7] J.Z. Chen and W.H. Liao, "Design, Testing, and Control of a Magnetorheological Actuator for Assistive Knee Braces," Smart Materials and Structures, Vol. 19, 035029, 2010 , doi:10.1088/0964-1726/19/3/035029.
	[8] J.Z. Chen and W.H. Liao, "Development and Experimental Evaluation of an Assistive Knee Brace with Magnetorheological Actuator," Journal of Intelligent Material Systems and Structures , submitted (under review), 2010.
	[9] H.T. Guo and W.H. Liao, "Design and Analysis of a Multifunctional Actuator with Magnetorheological Fluids," Smart Materials and Structures, to be submitted.
	[10] H.T. Guo and W.H. Liao, "Design and Control of Magnetorheological Actuators for Assistive Knee Braces," Advancement in Biologically Inspired Robotics, Invited Book Chapter, to be submitted.
	[11] Magnetorheological Actuator with Multiple Functions, CUHK Technology Disclosure 09/ENG/318, U.S. Provisional Patent Application, No. 61/202,539, March 11, 2009; U. S. Patent Application, No.12/722,146, March 11, 2010.
	[12] J. Z. Chen, A Magneto-rheological Actuator for Assistive Knee Braces, Ph.D. Thesis , The Chinese University of Hong Kong, July 2009.
	[13] H. T. Guo, Design and Analysis of Multifunctional Actuators for Assistive Knee Braces, Ph.D. Thesis , The Chinese University of Hong
	[14] C.C. Chan, Gait Experiments and Analysis for Assistive Knee Braces, Final Year Project Report , The Chinese University of Hong Kong,

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MMT - 8115015	[1]	3D surgery videos captured in this project have been included in eSurgical Textbook & Journal at http://www.esurg.net/
	[2]	3D surgery videos of urology captured in this project will be published in the book “泌尿肿瘤影像手术学---方法和技巧; 人民卫生出版社
MMT - 8115016	[1]	Hin-Shun Chung and Jiaya Jia, “Efficient Photometric Stereo on Glossy Surfaces with Wide Specular Lobes,” IEEE Conference on Computer Vision and Pattern Recognition (CVPR), vol., no., pp.1-8, 23-28 June 2008
	[2]	Qi Shan, Jiaya Jia, Michael S. Brown, “Globally Optimized Linear Windowed Tone-Mapping,” IEEE Transactions on Visualization and Computer Graphics (TVCG).
BME - 8115018	[1]	W. S-Y. Wang, "The language mosaic and its biological bases," Journal of Bio-education, vol. 2, pp. 8-16, 2007 .
	[2]	W. S-Y. Wang, "宏觀語音學." 中國語音學報, vol. 1, pp. 1-9.
	[3]	L. Shuai and W. S-Y. Wang, "Tone lateralization under noisy conditions," The 4th International Conference on Speech Prosody Campinas,
	[4]	L. Shuai, "Tone lateralization: An ERP study on dichotic listening," The 5th Postgraduate Research Forum on Linguistics Hong Kong, 2008 .
	[5]	H-Y. Zheng, "Categorical perception of lexical tones: Correlation between electric braresponse and behavioural performance," The 5th Postgraduate Research Forum on Linguistics Hong Kong, 2008 .
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