

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 - 8115013	[1]	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" The International Conference on Infrared and Millimeter Waves/THz Electronics (IRMMW-THz) Cal-Tech Pasadena, California September 2008 . In Submission.
	[2]	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 .
	[3]	W. C. Kan, E Pickwell-MacPherson, W S Lee, and W. H. Cheung, "A Pilot Study of Terahertz Pulsed Imaging of Osteoarthritis", The International Conference on Infrared and Millimeter Waves/THz Electronics (IRMMW-THz) Cal-Tech Pasadena, California, September 2008 . In Submission.
	[4]	E Pickwell-MacPherson., WC Kan, WS Lee, V P. Wallace and W H Cheung, "Application of Terahertz Imaging to Osteoarthritis", IEEE International Microwave Symposium, Atlanta, June 2008 .
	[5]	E Pickwell-MacPherson, SY Huang, Y Sun, W. C. Kan and YT Zhang, "Terahertz image processing methods for biomedical applications", Annual International Conference of the IEEE Engineering in Medicine and Biology Society, Vancouver, August 2008 . In Submission.
BME - 8115014	[1]	C.L. Wong, H.P. Ho, Y.K. Suen, S.K. Kong, Q.L. Chen, W. Yuan, S.Y. Wu, "Real-time protein biosensor arrays based on surface plasmon resonance differential phase imaging," Biosensors and Bioelectronics 24, pp. 606-612, 2008 .
	[2]	W. Yuan, H.P. Ho, Y.K. Suen, S.K. Kong, Chinlon Lin, "Improving sensitivity limit of surface plasmon resonance biosensors by detecting mixed interference signals", Applied Optics, 46, pp. 8068-8073, 2007 .
	[3]	C.L. Wong, H.P. Ho, T. T. Yu, Y.K. Suen, W. Y. Chow, S.Y. Wu, W.C. Law, W Yuan, W.J. Li, S.K. Kong and Chinlon Lin, "Two-dimensional biosensor arrays based on surface plasmon resonance phase imaging," Applied Optics, 46, pp. 2325-2332, 2007 .
	[4]	W. Yuan, H.P. Ho, C.L. Wong, S.K. Kong, Chinlon Lin, "Surface plasmon resonance biosensor incorporated in a Michelson interferometer with enhanced sensitivity", IEEE Sensors Journal, 7, pp. 70-73, 2007 .
	[5]	S.Y. Wu and H.P. Ho, "Single-beam self-referenced phase-sensitive surface plasmon resonance sensor with high detection resolution," Chinese Optics Letters, 6, pp. 176-178, 2008 .
	[6]	H.P. Ho, W. Yuan, C.L. Wong, S.Y. Wu, Y.K. Suen, S.K. Kong, Chinlon Lin, "Sensitivity enhancement based on application of multi-pass interferometry in phase-sensitive surface plasmon resonance biosensor," Optics Communications, 276, pp. 491-496, 2007 .
	[7]	C.L. Wong, H.P. Ho, K.S. Chan, P.L. Wong, S.Y. Wu and Chinlon Lin, "Application of 2-D spectral surface plasmon resonance imaging to studying elastohydrodynamic lubricant (EHL) films," Tribology International, 41, pp. 356-366, 2008 .
	[8]	C.L. Wong, H.P. Ho, Y.K. Suen, S.Y. Wu, W. Yuan and S.K. Kong, "Two-dimensional phase surface plasmon resonance biosensor for protein array detection" (submitted to Biosensors and Bioelectronics)

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	[9]	C.L. Wong, H.P. Ho, Y.K. Suen, C. W. Yin, W.J. Li, S.K. Kong and Chinlon Lim, "Biosensor arrays based on surface plasmon resonance phase imaging," International Symposium on Biophotonics, Nanophotonics and Metamaterials, Hangzhou, China, pp. 102-105, 16-18 October 2006. (Best student paper award)
	[10]	W. Yuan, - 2nd runner-up of YDC Entrepreneurs' Challenge (E-Challenge) 2007 Business Plan Competition organized by The Young Entrepreneurs Development Council (YDC), Project title: "Surface Plasmon Resonance Biosensors," 30 June 2007. (AWARD)
MMT - 8115015	[1]	"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.
	[2]	"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. Design and Control of a Magnetorheological Actuator for Leg Exoskeleton," Proceedings of 2007 IEEE International Conference on Robotics and Biomimetics, pp. 1388-1393, 15 - 18 December 2007.
	[3]	"Design, Fabrication, and Control of a Magnetorheological Actuator for an Assistive Knee Brace," in preparation, to be submitted to international journal.
	[4]	Dual Function Motor and Brake Having Magnetorheological Fluids, in preparation, patent application to be filed.
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), 2008.
	[2]	Qi Shan and Jiaya Jia, "Optimizing High Dynamic Range Compression Using Guided Linear Models", IEEE Transactions on Visualization and Computer Graphics, submitted.
MMT - 8115017	[1]	Jack Y. B. Lee, Peter T. S. Yum, W. S. Wan, "TCP-SuperCharger : A New Approach to High-Throughput Satellite Data Transfer," accepted for presentation in the 27th International Symposium on Space Technology and Science (ISTS), Tokyo, Japan, 5-12 July 2009.
MMT - 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," in The 4th International Conference on Speech Prosody Campinas, Brazil, 2008.
	[4]	L. Shuai, "Tone lateralization: An ERP study on dichotic listening," in The 5th Postgraduate Research Forum on Linguistics Hong Kong, 2008.
	[5]	H-Y. Zheng, "Categorical perception of lexical tones: Correlation between electric brain response and behavioural performance," in The 5th Postgraduate Research Forum on Linguistics Hong Kong, 2008.

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Project code		Publication
<u>Number of publications arising from Batch 2007 projects (on-going)</u>		
In BME Track		<i>15</i>
In MMT Track		<i>12</i>
Total		27
<u>Last Updated: May 2009</u>		