

The Chinese University of Hong Kong
Shun Hing Institute of Advanced Engineering
List of Publications Arising from SHIAE Supported Projects
(Batch 2008)

Project code		Publication
BME - 8115019 PI: JB Xu (EE Dept)	[1]	J. Li, H. Iu, J.T.K. Wan, H.C. Ong, The plasmonic properties of elliptical metallic hole arrays, Applied Physics Letters, American Institute of Physics, 94, 03101 (2009).
	[2]	J. Li, H. Iu, D.Y. Lei, J.T.K. Wan, J.B. Xu, H.P. Ho, M.Y. Waye and H.C. Ong, Dependence of surface plasmon lifetimes on the hole size in two-dimensional metallic arrays, Applied Physics Letters, American Institute of Physics, 94, 183112 (2009).
	[3]	C.Y. Chan, J. Li, J.B. Xu, and H.C. Ong, The dependence of surface enhanced Raman scattering on the groove size of one-dimensional metallic gratings, Materials Research Society Spring Meeting, San Francisco, April 13-17, 2009.
	[4]	J. Li, H. C. Ong, K. C. Hui, C. Y. Chan, H. P. Ho, M. Y. Waye, J. B. Xu, Investigation of the plasmonic properties of two-dimensional metallic nanostructured arrays, International Conference on Materials for Advanced Technologies, Singapore, June 28-July 3, 2009.
	[5]	J. Li, J.B. Xu, and H.C. Ong, Hole size dependence of forward emission from organic dyes coated with two-dimensional metallic arrays, Applied Physics Letters, American Institute of Physics, 94, 241114 (2009).
	[6]	K.C. Hui, J.T.K. Wan, J.B. Xu and H.C. Ong, Dependence of anisotropic surface plasmon lifetimes of two-dimensional hole arrays on hole geometry, Applied Physics Letters, American Institute of Physics, 95, 063110 (2009).
	[7]	J. Li, H. Iu, J. T. K. Wan, and H. C. Ong, "The plasmonic properties of elliptical metallic hole arrays", APPLIED PHYSICS LETTERS 94, 033101 2009
	[8]	J. Li, H. Iu, D. Y. Lei, J. T. K. Wan, J. B. Xu, H. P. Ho, M. Y. Waye, and H. C. Ong, "Dependence of surface plasmon lifetimes on the hole size in two-dimensional metallic arrays", APPLIED PHYSICS LETTERS 94, 183112 2009
	[9]	D.Y. Lei, J. Li, A.I. Fernandez-Dominguez, H.C. Ong, and S.A. Maier, Geometry dependence of surface plasmon polariton lifetimes in nanohole arrays, ACS Nano 4, 432 (2010).
	[10]	C.Y. Chan, J.B. Xu, M.Y. Waye and H.C. Ong, Dependence of surface enhanced Raman scattering (SERS) from two-dimensional metallic arrays on hole size, Appl. Phys. Lett. 96, 033014 (2010).
	[11]	C.Y. Chan, H.C. Ong, J.B. Xu, and M.Y. Waye, Angle-resolved surface enhanced Raman scattering ” Springer (in press).

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Project code	Publication
BME - 8115020 / No. [1], [4], [5], [7] are arised from BME - 8115018 PI: W SY Wang (EE Dept)	[1] W-T. Siok, P. Kay, W.S-Y. Wang, A.H.-D. Chan, L. Chen, K-K. Luk, and L-H. Tan, "Language regions of brain are operative in color perception," Proceedings of National Academy of Sciences of the United States of America, 106(20), 8140-8145, 2009 .
	[2] G. Peng, J.W. Minett, and W.S-Y. Wang, "Cultural background influences the liminal perception of Chinese characters: An ERP study," Journal of Neurolinguistics, 23(4), 416-426. 2010 .
	[3] G. Peng, H-Y. Zheng, T. Gong, R-X. Yang, J-P. Kong, and W.S-Y. Wang, "The influence of language experience on categorical perception of pitch contours," Journal of Phonetics, doi:10.1016/j.wocn.2010.09.003, in press.
	[4] H-Y. Zheng, J.W. Minett, G. Peng, and W.S-Y. Wang, "The impact of tone systems on the categorical perception of lexical tones: An event-related potentials study," Language and Cognitive Processes. doi: 10.1080/01690965.2010.520493 , in press.
	[5] G. Peng, Y.-W. Wong, and W. S-Y. Wang, Comparative formant analysis of the vowels in Cantonese and Mandarin continuous speech. Journal of the Acoustical Society of America, under review.
	[6] J.N. Mak, Y. Arbel, J.W. Minett, L.M. McCane, B. Yuksel, D. Ryan, D.Thompson, L. Bianchi, and D. Erdogmus, "Optimizing the P300-based BCI: current status, limitations and future directions," Journal of Neural Engineering, under review.
	[7] G. Peng, G-T. Mai, and W.S-Y. Wang, "The intelligibility of speech is modulated by syllabic rates: Evidence from time-compressed speech with periodic insertions of silence," to be submitted to Phonetica, under preparation.
	[8] G. Peng and W.S-Y. Wang, "Hemisphere lateralization is influenced by bilingual status and fractionation of word," to be submitted to Proceedings of the National Academy of Sciences, under preparation.
	[9] L. Shuai, J. Ho, and W.S-Y. Wang, "Hemispheric lateralization is modulated by tone features: An ERP study on Cantonese tones," to be submitted to Laterality, under preparation.
	[10] J.W. Minett, H-Y. Zheng, M. Fong, L. Zhou, G. Peng, and W.S-Y. Wang, "A Chinese Text Input Brain-Computer Interface Based on the P300 Speller," to be submitted to IEEE Transactions on Neural Systems and Rehabilitation Engineering, under preparation.
	[11] W.S-Y. Wang, Yuyan Yongxian: Fazhan yu Yanhua (語言湧現：發展與演化), Academia Sinica, 2008 .
	[12] J.W. Minett and W.S-Y. Wang (Eds.), Language, Evolution, and the Brain. City University of Hong Kong Press, 2009 .
	[13] L. Shuai, "Tone lateralization is affected by both linguistic roles and physical properties," Paper presented at The 8th Göttingen Meeting of the German Neuroscience Society, 2009 .
	[14] J.W. Minett, G. Peng, L. Zhou, H-Y. Zheng, and W.S-Y. Wang, "An assistive communication brain-computer interface for Chinese Text Input," Proceedings of the Fourth International Conference on Bioinformatics and Biomedical Engineering (iCBBE 2010), June 2010 , Paper

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BME - 8115021 PI: Max QH Meng (EE Dept)	[J1]	Xiaona Wang and Max Q.-H. Meng, "A localization method based on magnetic dipole modeling for tracking of capsule endoscope," Journal of Engineering in Medicine, accepted for publication, Aug. 2010 .
	[J2]	Lisheng Xu, Max Q.-H. Meng, and Chao Hu, "Effects of dielectric values of human body on specific absorption rate following 430, 800, and 1200 MHz RF exposure to ingestible wireless device," IEEE Transactions on Information Technology In Biomedicine, vol. 14, no. 1, pp. 52-59, Jan. 2010 .
	[J3]	Xiaona Wang and Max Q.-H. Meng, "An experimental study of resistant properties of the small intestine for active capsule endoscope," Journal of Engineering in Medicine, vol. 224, no. H1, pp. 107-118, Jan. 2010 .
	[J4]	Lisheng Xu, Max Q.-H. Meng, and Yawen Chan, "Effects of dielectric parameters of human body on radiation characteristics of ingestible wireless device at operating frequency of 430 MHz," IEEE Transactions on Biomedical Engineering, vol. 56, no. 8, pp. 2083-2094, Aug.
	[J5]	Lisheng Xu, Max Q.-H. Meng, and Yawen Chan, "Effects of dielectric parameters of human body on radiation characteristics of ingestible wireless device at operating frequency of 430 MHz," IEEE Transactions on Biomedical Engineering, vol. 56, no. 8, pp. 2083-2094, Aug.
	[C1]	Xiaona Wang, Max Q.-H. Meng and Xijun Chen, "A locomotion mechanism with external magnetic guidance for active capsule endoscope," in Proceedings of the 32nd Annual International Conference of the IEEE Engineering in Medicine and Biology Society, pp.4375-4378, Aug. 31-Sept. 4, 2010 , Buenos Aires, Argentina.
	[C2]	Baopu Li and Max Q.-H. Meng, "Capsule endoscopy images classification by color texture and support vector machine," in Proceedings of 2010 IEEE International Conference on Automation and Logistics, pp. 126-131, Aug. 16-20, 2010 , Hong Kong, China.
	[C3]	Lisheng Xu, Cong Feng, Ying Wang, Yupeng Yao, and Max Q.-H. Meng, "Variation of exterior telemetry links of capsule antenna ingested in human body," in Proceedings of the 8th World Congress on Intelligent Control and Automation, pp. 2269-2272, July 6-9, 2010 , Jinan,
	[C4]	Lisheng Xu, Yupeng Yao, Ying Wang, Cong Feng, Yan Kang, and Max Q.-H. Meng, "Effects of dielectric values of human body on radiation characteristics of ingestible wireless device following 1200 MHz," in Proceedings of the 4th International Conference on Bioinformatics and Biomedical Engineering, pp. 1-4, June 18-20, 2010 , Chengdu, China.
	[C5]	Baopu Li, Yichen Fan, Max Q.-H. Meng, and Lin Qi, "Intestinal polyp recognition in capsule endoscopy images using color and shape features," in Proceedings of the 2009 IEEE International Conference on Robotics and Biomimetics, pp. 1490-1494, Dec. 19-23, 2009 , Guilin,
[C6]	Baopu Li, Lin Qi, Max Q.-H. Meng, and Yichen Fan, "Using ensemble classifier for small bowel ulcer detection in wireless capsule endoscopy images," in Proceedings of the 2009 IEEE International Conference on Robotics and Biomimetics, pp. 2326-2331, Dec. 19-23,	

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Project code	Publication
	[C7] Baopu Li and Max Q.-H. Meng, "Small bowel tumor detection for wireless capsule endoscopy images using textural features and support vector machine," in Proceedings of 2009 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS2009), St. Louis, USA, October 11-15, 2009 , pp 498-503. (Best Application Paper finalist)
	[C8] Xiaona Wang and Max Q.-H. Meng, "In situ analysis of capsule endoscopy images and preliminary results," in Proceedings of 2009 IEEE/RSJ International Conference on Intelligent Robots and Systems, pp. 5737-5742, Oct. 11-15, 2009 , St. Louis, USA.
	[C9] Baopu Li, Max Q.-H. Meng, and Lisheng Xu, "A comparative study of shape features for polyp detection in wireless capsule endoscopy images," in Proceedings of the 31st Annual International Conference of the IEEE Engineering in Medicine and Biology Society, pp. 3731-3734, Sep. 2-6, 2009 , Minnesota, USA.
	[C10] Lisheng Xu, Max Q.-H. Meng, and Baopu Li, "Effects of dielectric values of human body on specific absorption rate (SAR) following 800 MHz radio frequency exposure to ingestible wireless device," in Proceedings of 31st Annual International Conference of the IEEE Engineering in Medicine and Biology Society, pp. 5060-5063, Sep. 2-6, 2009 , Minnesota, USA.
	[C11] Lisheng Xu and Max Q.-H. Meng, "Effects of dielectric parameters of human body on specific absorption rate for ingestible wireless device at operating frequency of 430 MHz," in Proceedings of 2009 IEEE/ASME International Conference on Advanced Intelligent Mechatronics, pp. 215-220, July 14-17, 2009 , Singapore.
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" the 27th International Symposium on Space Technology and Science (ISTS), Tokyo, Japan, 5-12 July 2009 .
	[2] Yuan Pan and Jack Y. B. Lee, "Adaptive Scheduling of Data Transfer in P2P Applications over Asymmetric Networks," Proc. IEEE ICC 2010, Cape Town, South Africa, 23-27 May 2010 .
	[3] Y. Y. Lin and Jack Y. B. Lee, "Path Selection in Streaming Video Over Multi-Overlay Application Layer Multicast," IEEE Transactions on Circuits and Systems for Video Technology, vol.20(7), July 2010 , pp.1018-1031
	[4] M. L. Ma and Jack Y. B. Lee, "Multi-Source Scheduling in Streaming Erasure-Coded Video over P2P Networks," Proc. 10th IEEE International Conference on Peer-to-Peer Computing, Delft, Netherlands, 25-27 August, 2010 .

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MMT - 8115022 PI: CCL Wang (MAE Dept)	[1]	C.C.L. Wang, and K. Tang, "Pattern computation for compression garment by a physical/geometric approach," Computer-Aided Design, Elsevier, NL, vol.42, no.2, pp.78-86, February 2010 .
	[2]	S. Liu, and C.C.L. Wang, "Orienting unorganized points for surface reconstruction," Computers & Graphics, Elsevier, NL, Special Issue of IEEE International Conference on Shape Modeling and Applications (SMI 2010), vol.34, no.3, pp.209-218, Arts et Metiers ParisTech, Aix-
	[3]	C.C.L. Wang, Y. Zhang, and H. Sheung, "From designing products to fabricating them from planar materials", IEEE Computer Graphics and Applications, IEEE Computer Society, vol.20, no.6, pp.74-85, November 2010 .
	[4]	Y. Zhang, and C.C.L. Wang, "WireWarping++: Robust and flexible surface flattening with length control", IEEE Transactions on Automation Science and Engineering, IEEE Robotics and Automation Society, in press .
	[5]	S. Liu, and C.C.L. Wang, "Fast intersection-free offset surface generation from freeform models with triangular meshes", IEEE Transactions on Automation Science and Engineering, IEEE Robotics and Automation Society, in press .
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