The Chinese University of Hong Kong
Shun Hing Institute of Advanced Engineering
List of Publications Arising from SHIAE Supported Projects
(Batch 2011)

Project code		Publication
BME - 8115033 JB XU (EE Dept)	[1]	Z.W. Kang, H.X. Zhang, H.F. Lu, and H.P. Ho, "Double-layered metal nano-strip antennas for sensing applications," Plasmonics DOI 10.1007/s11468-012-9388-7 (2012).
	[2]	2. Z.W. Kang, H.X. Zhang, H.F. Lu, J.B. Xu, H.C. Ong, P. Shum, and H.P. Ho, "Plasmonic optical trap having very large active volume realized with nano-ring structure," Optics Letters 37, 1748-1750 (2012).
	[4]	4. Z.W. Kang, H.X. Zhang, H.F. Lu, J.J. Chen, and H.P. Ho, "Graded plasmonic nano-disks for near-field nano-manipulation," Optics express (Submission, 2013).
	[6]	6. L. Zhang, C.Y. Chan, J. Li, and H.C. Ong, "Rational design of high performance surface plasmon resonance sensors based on two-dimensional metallic hole arrays," Opt. Exp. 20, 12610 (2012).
	[7]	7. S.L. Wong and H.C. Ong, "Phase difference mapping of two-dimensional metallic nanohole arrays," Appl. Phys. Lett. 100, 233102 (2012).
	[8]	8. H.Y. Lo and H.C. Ong, "Decay rates modification through coupling of degenerate surface plasmon modes," Opt. Lett. 37, 2736 (2012).
	[9]	9. D.Y. Lei, J.T.L. Wan, and H.C. Ong, "Numerical and analytical evaluations of the sensing sensitivity of waveguide mode in one-dimensional metallic gratings," Nanotechnology, 23, 275501 (2012).
	[12]	12. Z.L. Cao and H.C. Ong, "Direct imaging of radiative decay of surface plasmon polaritons in nanohole arrays by cross-polarization microscopy," Appl. Phys. Lett. 102, 093108 (2013).
	[14]	14. S.L. Wong, S.Y. Wu, Z.L. Cao, H.P. Ho, and H.C. Ong, "High performing Fano resonance mediated phase-based surface plasmon resonance sensing from plasmonic crystals," (submitted).
MMT - 8115034 TT Wong (CSE Dept)	[1]	X. Liu, X. Mao, X. Yang, L. Zhang and T. T. Wong, "Stereoscopizing Cel Animations," ACM Transactions on Graphics (SIGGRAPH Asia 2013 issue), Vol. 32, No. , **November 2013, to appear.**
	[2]	X. Yang, L. Zhang, T.T. Wong, P.A. Heng, "Binocular Tone Mapping," ACM Transactions on Graphics (SIGGRAPH 2012 issue), Vol. 31, No. 4, **July 2012**, pp. 93:1-93:10.
	[3]	Liangliang Nan, Andrei Sharf, Ke Xie, Tien-Tsin Wong, Oliver Deussen, Daniel Cohen-Or, and and Baoquan Chen, "Conjoining Gestalt Rules for Abstraction of Architectural Drawings,"ACM Transactions on Graphics (SIGGRAPH Asia 2011 issue), Vol. 30, No. 6, **December 2011**, pp. 185:1-185:10.

Project code		Publication
	[4]	L. Q. Ma, K. Xu, T. T. Wong, B. Y. Jiang and S. M. Hu, "Change Blindness Images," IEEE Transactions on Visualization and Computer Graphics, Vol. 19, No. 11, **November 2013,** pp. 1808-1819.
	[5]	W. Feng, L. Wan, Z. Lin, T.T. Wong and Z.Q. Liu, "Perceptual Thumbnail Generation," Perceptual Digital Imaging: Methods and Applications, Edited by R. Lukac, CRC Press, **2013**, pp. 193-221.
	[6]	H. Wu, T.T. Wong and P.A. Heng, "Parallel Structure-aware Halftoning," Multimedia Tools and Applications, **2012, to appear.**
	[A]	T.T. Wong, X. Yang, L. Zhang, P.A. Heng, "Binocular Visual Experience Enrichment System," **US Provisional Patent Application No. US61/678732**
MMT - 8115035 WS Wong (IE Dept)	[1]	H. Cheng, Y. S. Chen, W. S. Wong, Q. Yang, L. F. Shen and J. Baillieul, "Stabilizing and Tracking Control of Multiple Pendulum-Cart Systems over a Shared Wireless Network," the 31st Chinese Control Conference, accepted to appear, **July 25-27, 2012, Hefei, China.**
	[2]	Y. Wu, K. W. Shum, W. S. Wong, and L. F. Shen, "Safety-Message Broadcast in Vehicular Ad Hoc Networks Based on Protocol Sequences," **accepted for publication in the IEEE Transactions of Vehicular Technology.**
	[3]	H. Cheng, Y. Chen, W. S. Wong, Q. Yang and L. F. Shen, "Protocol Sequence Based Wireless Media Access Control in Neworked Control Systems," submitted to the 12th International Conference on Automation, Control, Robotics and Vision, **Dec. 5-7, 2012, Guangzhou,**
	[5]	H. Cheng, Y. S. Chen, X. K. Li, and W. S. Wong, "Autonomous Takeoff, Tracking and Landing of a UAV on a Moving UGV Using Onboard Monocular Vision," **in Proc. of 32nd Chinese Control Conf., pp. 5895-5901, July 2013, Xian, China.**
	[6]	H. Cheng, Y. S. Chen, and W. S. Wong, "Trajectory Tracking and Formation Flight of Autonomous UAVs in GPS-Denied Environments Using Onboard Sensing," **submitted to 2014 IEEE Conf. Robotics & Automation, May 2014, Hong Kong.**
	[7]	Y. Zhang and W. S. Wong, "Distributed Load Balancing in a Multiple Server System by Shift-Invariant Protocol Sequences," **Proceedings of the Wireless Communications and Networking Conference, April 7-10 2013, Shanghai, China, pp. 1639-1644.**
	[8]	G. Guo, W. S. Wong, and Z. C. Liu, "Cooperative Target Realization in Multi-Agent Systems Allowing Choice-Based Actions," **preprint.**

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Project code		Publication
MMT - 8115036 Sid Jaggi (IE Dept)	[1]	S. Agnihotri, S. Jaggi, and M. Chen, "Amplify-and-Forward in Wireless Relay Network," In proceedings of the IEEE Information Theory Workshop (ITW) 2011, Paraty, Brazil, **October 2011.**
	[2]	Q. Wang, S. Jaggi, and S..-Y. R. Li, "Binary Error Correcting Network Codes," In proceedings of the IEEE Information Theory Workshop (ITW) 2011, Paraty, Brazil, **October 2011.**
	[3]	T. Dikaliotis, H. Yao, A. S. Avestimehr, S. Jaggi, and T. Ho, "Low-Complexity Near-Optimal Codes for Gaussian Relay Networks,'' in SPCOM 2012, Bangalore, India, **July 2012.**
	[4]	S. Agnihotri, S. Jaggi, and M. Chen, "Analog Network Coding in General SNR Regime," Accepted for publication in proceedings of the IEEE International Symposium on Information Theory (ISIT) 2012, Cambridge, MA, **July 2012.**
	[5]	S. Agnihotri, S. Jaggi, and M. Chen, "Analog Network Coding in General SNR Regime: Performance of a Greedy Scheme," Submitted to the International Symposium on Network Coding (Netcod) 2012, Cambridge, MA, **June 2012.**
	[6]	S. Agnihotri, S. Jaggi, and M. Chen, "Analog Network Coding in General SNR Regime: Performance of Network Simplification," Submitted to the IEEE Information Theory Workshop (ITW) 2012, Lausanne, Switzerland, **September 2012.**
	[7]	F. Hadadpour, M. Jafari Siovashani, M. Bakshi, S. Jaggi, "On AVCs with Quadratic constraints," submitted to the IEEE International Symposium on Information Theory (ISIT) 2013.
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