

Prof. Max Qinghu MENG

The Chinese University of Hong Kong, PRC

Selected Scholarly Contributions [Data Provided by **SCOPUS**]

He, Q., Hu, C., Liu, W., Wei, N., Meng, M.Q.-H., Liu, L., Wang, C.

[Simple 3-D point reconstruction methods with accuracy prediction for multiocular system](#)

(2013) IEEE/ASME Transactions on Mechatronics, 18 (1), art. no. 6112802, pp. 366-375.

Liu, X., Wang, G., Liao, J., Li, B., He, Q., Meng, M.Q.-H.

[Detection of geometric shape for traffic lane and mark](#)

(2012) 2012 IEEE International Conference on Information and Automation, ICIA 2012, art. no. 6246837, pp. 395-399.

Fang, X., Liao, J., Zhang, R., Ni, P., Li, B., Meng, M.Q.-H.

[An extensible embedded terminal platform for wireless telemonitoring](#)

(2012) 2012 IEEE International Conference on Information and Automation, ICIA 2012, art. no. 6246761, pp. 668-673.

Zhang, R., Fang, X., Liu, Y., Liao, J., Li, B., Meng, M.Q.-H.

[Design of a real-time ECG filter for resource constraint computer](#)

(2012) 2012 IEEE International Conference on Information and Automation, ICIA 2012, art. no. 6246899, pp. 846-849.

Fu, Y., Yan, T., Zhang, D.W., Meng, M.Q.-H.

[A partial differential equation algorithm for image enhancement](#)

(2012) 2012 IEEE International Conference on Information and Automation, ICIA 2012, art. no. 6246885, pp. 606-610.

Liu, H., Yan, T., Cheng, Y., Zhang, D.W., Meng, M.Q.-H.

[Image segmentation by improved level set evolution algorithm](#)

(2012) 2012 IEEE International Conference on Information and Automation, ICIA 2012, art. no. 6246887, pp. 616-619.

Wei, N., Li, B., He, Q., Hu, C., Meng, M.Q.-H.

[A novel correspondence searching strategy in multiocular vision](#)

(2012) Proceedings - IEEE International Conference on Robotics and Automation, art. no. 6224558, pp. 1823-1828.

Yang, S.X., Zhu, A., Yuan, G., Meng, M.Q.-H.

[A bioinspired neurodynamics-based approach to tracking control of mobile robots](#)

(2012) IEEE Transactions on Industrial Electronics, 59 (8), pp. 3211-3220.

Li, B., Meng, M.Q.-H.

[Tumor recognition in wireless capsule endoscopy images using textural features and SVM-based feature selection](#)

(2012) IEEE Transactions on Information Technology in Biomedicine, 16 (3), art. no. 6138917, pp. 323-329.

Chen, D., Meng, M.Q.-H.

[A new density-ratio based approach for patient-specific biomedical monitoring](#)

(2011) Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBS, art. no. 6091755, pp. 6943-6946.

Fan, Y., Meng, M.Q.-H., Li, B.

[A novel method for informative frame selection in wireless capsule endoscopy video](#)

(2011) Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBS, art. no. 6091205, pp. 4864-4867.

Chen, D., Meng, M.Q.-H.

[Health status detection for patients in physiological monitoring](#)

(2011) Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBS, art. no. 6091219, pp. 4921-4924.

Ren, H., Meng, M.Q.-H.

[Investigation of the essentials for integrating off-the-shelf industrial robotics in precise computer-assisted surgery](#)

(2011) Journal of Mechanics in Medicine and Biology, 11 (5), pp. 1113-1123.

Zhao, Q., Meng, M.Q.-H.

[WCE video abstracting based on novel color and texture features](#)

(2011) 2011 IEEE International Conference on Robotics and Biomimetics, ROBIO 2011, art. no. 6181328, pp. 455-459.

Li, B., Meng, M.Q.-H., Hu, C.

[Motion analysis for capsule endoscopy video segmentation](#)

(2011) IEEE International Conference on Automation and Logistics, ICAL, art. no. 6024682, pp. 46-51.

Zhao, Q., Meng, M.Q.-H.

[Polyp detection in wireless capsule endoscopy images using novel color texture features](#)

(2011) Proceedings of the World Congress on Intelligent Control and Automation (WCICA), art. no. 5970656, pp. 948-952.

He, Q., Liu, W., Wei, N., Yang, Y., Hu, C., Meng, M.Q.-H.

[A method for 3D-point reconstruction in multi-vision based on perpendicular foot](#)

(2011) Proceedings of the World Congress on Intelligent Control and Automation (WCICA), art. no. 5970717, pp. 147-151.

Fan, Y., Meng, M.Q.-H.

[3D reconstruction of the WCE images by affine SIFT method](#)

(2011) Proceedings of the World Congress on Intelligent Control and Automation (WCICA), art. no. 5970655, pp. 943-947.

Yan, H., Zhang, H., Shi, H., Meng, M.Q.-H.

[Improved robust \$H_\infty\$ performance analysis for networked control systems with two additive time-varying delays](#)

(2011) Proceedings of the World Congress on Intelligent Control and Automation (WCICA), art. no. 5970630, pp. 827-832.

Liu, L., Liu, W., Hu, C., Meng, M.Q.-H.

[Hybrid magnetic and vision localization technique of capsule endoscope for 3D recovery of pathological tissues](#)

(2011) Proceedings of the World Congress on Intelligent Control and Automation (WCICA), art. no. 5970670, pp. 1019-1023.

Shen, Z., Hu, C., Li, P., Meng, M.Q.-H.

[Research on premature ventricular contraction real-time detection based support vector machine](#)

(2011) 2011 IEEE International Conference on Information and Automation, ICIA 2011, art. no. 5949116, pp. 864-869.

Wang, H., Chen, D., Meng, M.Q.-H., Hu, C., Liu, Z.

[Robust abnormal wireless capsule endoscopy frames detection based on least squared density ratio algorithm](#)

(2011) 2011 IEEE International Conference on Information and Automation, ICIA 2011, art. no. 5949010, pp. 324-328.

Ren, H., Meng, M.Q.-H.

[Automatic extraction of the lung field from volumetric images for statistical anatomical modeling: A technical approach](#)

(2011) 2011 IEEE International Conference on Information and Automation, ICIA 2011, art. no. 5949024, pp. 396-399.

Tian, J., Song, S., Wang, X., Yan, T., Hu, C., Meng, M.Q.-H.

[An improved method and algorithm for electromagnetic localization](#)

(2011) 2011 IEEE International Conference on Information and Automation, ICIA 2011, art. no. 5949026, pp. 406-411.

Li, B., Meng, M.Q.-H.

[Capsule endoscopy video Boundary Detection](#)

(2011) 2011 IEEE International Conference on Information and Automation, ICIA 2011, art. no. 5949020, pp. 373-378.

Chen, D., Meng, M.Q.-H., Wang, H., Hu, C., Liu, Z.

[A novel strategy to label abnormalities for wireless capsule endoscopy frames sequence](#)

(2011) 2011 IEEE International Conference on Information and Automation, ICIA 2011, art. no. 5949021, pp. 379-383.

Wei, N., Hu, C., He, Q., Liu, W., Meng, M.Q.-H.

[Angle constraints for point correspondence in multi-ocular vision](#)

(2011) Applied Mechanics and Materials, 58-60, pp. 1384-1389.

Zhou, R., He, Q., Wu, J., Hu, C., Meng, M.Q.-H.

[Inner and outer eye corners detection for facial features extraction based on CTGF algorithm](#)

(2011) Applied Mechanics and Materials, 58-60, pp. 1966-1971.

He, Q., Wei, N., Liu, W., Hu, C., Meng, M.Q.-H.

[Enhanced epipolar constraint for point correspondence in computer vision system](#)

(2011) Applied Mechanics and Materials, 58-60, pp. 1871-1876.

Liu, L., Sun, B., Wei, N., Hu, C., Meng, M.Q.-H.

[A novel marker tracking method based on extended Kalman filter for multi-camera optical tracking systems](#)

(2011) 5th International Conference on Bioinformatics and Biomedical Engineering, iCBBE 2011, art. no. 5780295, .

Yan, H., Zhang, H., Shi, H., Meng, M.Q.-H., Cheng, J.

[Robust \$H_\infty\$ filtering for uncertain nonlinear stochastic systems with mode-dependent time-delays and Markovian jump parameters](#)

(2011) Circuits, Systems, and Signal Processing, 30 (2), pp. 303-321.

Yang, Y., He, Q., Hu, C., Liao, J., Meng, M.Q.-H.

[Method of edge energy template for detection of ultrasonic based fatty liver](#)

(2010) Proceedings - 2010 3rd International Congress on Image and Signal Processing, CISP 2010, 2, art. no. 5646937, pp. 994-998.

Wang, L., Liu, L., Hu, C., Meng, M.Q.-H.

[A novel RF-based propagation model with tissue absorption for location of the GI tract](#)

(2010) 2010 Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC'10, art. no. 5627228, pp. 654-657.

Sun, B., Liu, L., Hu, C., Meng, M.Q.-H.

[Surgical instrument recognition and calibration for optical tracking system](#)

(2010) 2010 IEEE International Conference on Robotics and Biomimetics, ROBIO 2010, art. no. 5723530, pp. 1376-1381.

Sun, B., Liu, L., Hu, C., Meng, M.Q.-H.

[3D reconstruction based on capsule endoscopy image sequences](#)

(2010) ICALIP 2010 - 2010 International Conference on Audio, Language and Image Processing, Proceedings, art. no. 5684391, pp. 607-612.

He, Q., Hu, C., Liu, W., Meng, M.Q.-H.

[The fast method of point positioning in multi-vision system](#)

(2010) 2010 IEEE International Conference on Robotics and Biomimetics, ROBIO 2010, art. no. 5723545, pp. 1463-1467.

Li, B., Meng, M.Q.-H.

[Tumor CE image classification using SVM-based feature selection](#)

(2010) IEEE/RSJ 2010 International Conference on Intelligent Robots and Systems, IROS 2010 - Conference Proceedings, art. no. 5649638, pp. 1322-1327.

Li, B., Meng, M.Q.-H., Zhao, Q.

[Wireless capsule endoscopy video summary](#)

(2010) 2010 IEEE International Conference on Robotics and Biomimetics, ROBIO 2010, art. no. 5723369, pp. 454-459.

Wang, L., Liu, L., Hu, C., Meng, M.Q.

[A novel RF-based propagation model with tissue absorption for location of the GI tract.](#)

(2010) Conference proceedings : ... Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Conference, 2010, pp. 654-657.

Liu, W., Hu, C., He, Q., Meng, M.Q.-H., Liu, L.

[An hybrid localization system based on optics and magnetics](#)

(2010) 2010 IEEE International Conference on Robotics and Biomimetics, ROBIO 2010, art. no. 5723493, pp. 1165-1169.

Wang, X., Meng, M.Q.-H., Chen, X.

[A locomotion mechanism with external magnetic guidance for active capsule endoscope](#)

(2010) 2010 Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC'10, art. no. 5627100, pp. 4375-4378.

Fan, Y., Meng, M.Q.-H., Li, B.

[3D reconstruction of wireless capsule endoscopy images](#)

(2010) 2010 Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC'10, art. no. 5626182, pp. 5149-5152.

Zhao, Q., Meng, M.Q.-H., Li, B.

[WCE video clips segmentation based on abnormality](#)

(2010) 2010 IEEE International Conference on Robotics and Biomimetics, ROBIO 2010, art. no. 5723367, pp. 442-447.

Cheng, C., Liu, Z., Hu, C., Meng, M.Q.-H.

[A novel wireless capsule endoscope with JPEG compression engine](#)

(2010) 2010 IEEE International Conference on Automation and Logistics, ICAL 2010, art. no. 5585345, pp. 553-558.

Li, B., Meng, M.Q.-H.

[Capsule endoscopy images classification by color texture and support vector machine](#)

(2010) 2010 IEEE International Conference on Automation and Logistics, ICAL 2010, art. no. 5585395, pp. 126-131.

Zhao, Q., Meng, M.Q.-H.

[An abnormality based WCE video segmentation strategy](#)

(2010) 2010 IEEE International Conference on Automation and Logistics, ICAL 2010, art. no. 5585347, pp. 565-570.

Shen, Z., Hu, C., Liao, J., Meng, M.Q.H.

[An algorithm of ST segment classification and detection](#)

(2010) 2010 IEEE International Conference on Automation and Logistics, ICAL 2010, art. no. 5585348, pp. 559-564.

Sun, B., He, Q., Hu, C., Meng, M.Q.-H.

[A new camera calibration method for multi-camera localization](#)

(2010) 2010 IEEE International Conference on Automation and Logistics, ICAL 2010, art. no. 5585376, pp. 7-12.

Cui, L., Hu, C., Zou, Y., Song, S., He, Q., Meng, M.Q.-H.

[Detection of lymphangiectasia disease from wireless capsule endoscopy images with adaptive threshold](#)

(2010) Proceedings of the World Congress on Intelligent Control and Automation (WCICA), art. no. 5554005, pp. 3088-3093.

Xu, L., Feng, C., Wang, Y., Yao, Y., Meng, M.Q.-H.

[A method for recognizing noises in pulse waves](#)

(2010) Proceedings of the World Congress on Intelligent Control and Automation (WCICA), art. no. 5554248, pp. 2264-2268.

Han, W., Li, Y., Zhang, R., Hu, C., Meng, M.Q.-H.

[A new ECG-based automated external defibrillator system](#)

(2010) Proceedings of the World Congress on Intelligent Control and Automation (WCICA), art. no. 5554315, pp. 2204-2209.

Ren, J., Li, M., Hu, C., Yang, L., Song, S., Meng, M.Q.-H.

[Design of a data acquisition system on magnetic signal for magnetic localization and orientation system](#)

(2010) Proceedings of the World Congress on Intelligent Control and Automation (WCICA), art. no. 5554360, pp. 2142-2147.

Li, M., Song, S., Hu, C., Chen, D., Meng, M.Q.-H.

[A novel method of 6-DoF electromagnetic navigation system for surgical robot](#)

(2010) Proceedings of the World Congress on Intelligent Control and Automation (WCICA), art. no. 5554348, pp. 2163-2167.

Shen, Z., Hu, C., Meng, M.Q.-H.

[A pulse wave filter method based on wavelet transform soft-threshold and adaptive algorithm](#)

(2010) Proceedings of the World Congress on Intelligent Control and Automation (WCICA), art. no. 5554650, pp. 1947-1952.

Xu, L., Feng, C., Wang, Y., Yao, Y., Meng, M.Q.-H.

[Variation of exterior telemetry links of capsule antenna ingested in human body](#)

(2010) Proceedings of the World Congress on Intelligent Control and Automation (WCICA), art. no. 5554225, pp. 2269-2272.

Xu, L., Yao, Y., Wang, Y., Feng, C., Kang, Y., Meng, M.Q.-H.

[Effects of dielectric values of human body on radiation characteristics of ingestible wireless device following 1200 MHz](#)

(2010) 2010 4th International Conference on Bioinformatics and Biomedical Engineering, iCBBE 2010, art. no. 5515880, .

Liu, W., Hu, C., He, Q., Meng, M.Q.-H.

[A three-dimensional visual localization system based on four inexpensive video cameras](#)

(2010) 2010 IEEE International Conference on Information and Automation, ICIA 2010, art. no. 5512297, pp. 1065-1070.

Cui, L., Hu, C., Zou, Y., Meng, M.Q.-H.

[Bleeding detection in wireless capsule endoscopy images by support vector classifier](#)

(2010) 2010 IEEE International Conference on Information and Automation, ICIA 2010, art. no. 5512218, pp. 1746-1751.

Shen, Z., Hu, C., Liao, J., Meng, M.Q.-H.

[An algorithm of premature contraction detection based on wavelet method](#)

(2010) 2010 IEEE International Conference on Information and Automation, ICIA 2010, art. no. 5512157, pp. 1053-1058.

Xu, L., Meng, M.Q.-H., Chan, Y., Ren, H.

[Erratum: Radiation characteristics of ingestible wireless devices in human intestine following radio frequency exposure at 430, 800, 1200, and 2400 MHz \(IEEE Transactions on Antennas and Propagation \(2009\) 57:8 \(2418-2428\)\)](#)

(2010) IEEE Transactions on Antennas and Propagation, 58 (7), art. no. 5439883, p. 2488.

Xu, L.S., Meng, M.Q.-H., Hu, C.

[Effects of dielectric values of human body on specific absorption rate following 430, 800, and 1200 mhz rf exposure to ingestible wireless device](#)

(2010) IEEE Transactions on Information Technology in Biomedicine, 14 (1), art. no. 5256151, pp. 52-59.

Yan, H., Meng, M.Q., Zhang, H.

[Delay-range-dependent robust \$H^\infty\$ filter design for a class of uncertain time-varying delay systems](#)

(2009) Proceedings of 2009 7th Asian Control Conference, ASCC 2009, art. no. 5276388, pp. 620-625.

Wang, X., Meng, M.Q.-H.

[In situ analysis of capsule endoscopy images and preliminary results](#)

(2009) 2009 IEEE/RSJ International Conference on Intelligent Robots and Systems, IROS 2009, art. no. 5353994, pp. 5737-5742.

Li, B., Meng, M.Q.-H.

[Small bowel tumor detection for wireless capsule endoscopy images using textural features and support vector machine](#)

(2009) 2009 IEEE/RSJ International Conference on Intelligent Robots and Systems, IROS 2009, art. no. 5354726, pp. 498-503.

Yan, H., Meng, M.Q.-H., Zhang, H.

[\$H^\infty\$ exponential filtering for uncertain Markovian jump stochastic systems with mode-dependent time delays and nonlinearities](#)

(2009) Proceedings of the IEEE Conference on Decision and Control, art. no. 5399862, pp. 2893-2898.

Li, H., Han, W., Hu, C., Meng, M.Q.-H.

[Detecting ventricular fibrillation by fast algorithm of dynamic sample entropy](#)

(2009) 2009 IEEE International Conference on Robotics and Biomimetics, ROBIO 2009, art. no. 5420764, pp. 1105-1110.

Liu, W., Shen, Z., Hu, C., Meng, M.Q.-H.

[Remote pulse wave monitoring system](#)

(2009) 2009 IEEE International Conference on Robotics and Biomimetics, ROBIO 2009, art. no. 5420398, pp. 1567-1572.

Li, B., Meng, M.Q.-H., Xu, L.

[A comparative study of shape features for polyp detection in wireless capsule endoscopy images](#)

(2009) Proceedings of the 31st Annual International Conference of the IEEE Engineering in Medicine and Biology Society: Engineering the Future of Biomedicine, EMBC 2009, art. no. 5334875, pp. 3731-3734.

Li, M., Song, S., Hu, C., Yang, W., Wang, L., Meng, M.Q.-H.

[A new calibration method for magnetic sensor array for tracking capsule endoscope](#)

(2009) 2009 IEEE International Conference on Robotics and Biomimetics, ROBIO 2009, art. no. 5420397, pp. 1561-1566.

He, Q., Hu, C., Cui, L., Liu, W., Meng, M.Q.-H.

[A novel x-corner detector based on video](#)

(2009) 2009 IEEE International Conference on Robotics and Biomimetics, ROBIO 2009, art. no. 5420443, pp. 1832-1837.

Xue, K., Liu, R., Meng, M.

[Design of internet-based teleoperation platform with brain-computer interface](#)

(2009) 2009 IEEE International Conference on Robotics and Biomimetics, ROBIO 2009, art. no. 5420583, pp. 723-728.

Xu, L., Meng, M.Q.-H., Li, B.P.

[Effects of dielectric values of human body on specific absorption rate \(SAR\) following 800 MHz radio frequency exposure to ingestible wireless device](#)

(2009) Proceedings of the 31st Annual International Conference of the IEEE Engineering in Medicine and Biology Society: Engineering the Future of Biomedicine, EMBC 2009, art. no. 5334263, pp. 5060-5063.

Song, S., Hu, C., Li, M., Yang, W., Meng, M.Q.-H.

[Two-magnet-based 6D-localization and orientation for wireless capsule endoscope](#)

(2009) 2009 IEEE International Conference on Robotics and Biomimetics, ROBIO 2009, art. no. 5420750, pp. 2338-2343.

Liao, J., Hu, C., Guan, G., Meng, M.Q.-H.

[An extensible telemonitoring architecture based on mobile agent method](#)

(2009) 2009 IEEE International Conference on Robotics and Biomimetics, ROBIO 2009, art. no. 5420401, pp. 1537-1542.

Liu, L., Hu, C., Cai, W., Meng, M.Q.-H.

[Capsule endoscope localization based on computer vision technique](#)

(2009) Proceedings of the 31st Annual International Conference of the IEEE Engineering in Medicine and Biology Society: Engineering the Future of Biomedicine, EMBC 2009, art. no. 5334803, pp. 3711-3714.

Li, M., Hu, C., Song, S., Dai, H., Meng, M.Q.-H.

[Detection of weak magnetic signal for magnetic localization and orientation in capsule endoscope](#)

(2009) Proceedings of the 2009 IEEE International Conference on Automation and Logistics, ICAL 2009, art. no. 5262793, pp. 900-905.

Tian, L., Hu, C., Wang, L., Chen, D., Meng, M.Q.-H.

[A novel 5-dimensional indoor localization algorithm based on RF signal strength](#)

(2009) Proceedings of the 2009 IEEE International Conference on Automation and Logistics, ICAL 2009, art. no. 5262735, pp. 1495-1500.

Song, S., Hu, C., Li, M., Yang, W., Meng, M.Q.-H.

[Real time algorithm for magnet's localization in capsule endoscope](#)

(2009) Proceedings of the 2009 IEEE International Conference on Automation and Logistics, ICAL 2009, art. no. 5262602, pp. 2030-2035.

Liu, W., Hu, C., Meng, M.Q.-H.

[A FPGA-based auto focusing system for object ranging estimation](#)

(2009) Proceedings of the 2009 IEEE International Conference on Automation and Logistics, ICAL 2009, art. no. 5262817, pp. 778-782.

Ren, H., Meng, M.Q.-H., Qi, L., Fan, Y.

[A technical review on the orthopedic compliant robotic arms](#)

(2009) 2009 IEEE International Conference on Information and Automation, ICIA 2009, art. no. 5204977, pp. 512-515.

Wang, L., Hu, C., Wang, J., Tian, L., Meng, M.Q.-H.

[Dual-modal indoor mobile localization system based on prediction algorithm](#)

(2009) 2009 IEEE International Conference on Information and Automation, ICIA 2009, art. no. 5204928, pp. 236-241.

Hu, C., Meng, M.Q.-H., Liu, L., Pan, Y., Liu, Z.

[Image representation and compression for capsule endoscope robot](#)

(2009) 2009 IEEE International Conference on Information and Automation, ICIA 2009, art. no. 5204976, pp. 506-511.

Yan, H., Meng, M.Q.-H., Zhang, H., Li, B.

[A Delay-range-dependent approach to robust \$H^\infty\$ control for uncertain linear systems with time-varying delays](#)

(2009) 2009 IEEE International Conference on Information and Automation, ICIA 2009, art. no. 5205009, pp. 687-692.

Yan, H., Meng, M.Q., Zhang, H.

[Robust \$H^\infty\$ filtering for uncertain stochastic markovian jump systems with mode-dependent time delays and nonlinear disturbances](#)

(2009) 2009 Chinese Control and Decision Conference, CCDC 2009, art. no. 5192714, pp. 2104-2109.

Xu, L., Meng, M.Q.-H.

[Effects of dielectric parameters of human body on specific absorption rate for Ingestible Wireless Device at operating frequency of 430 MHz](#)

(2009) IEEE/ASME International Conference on Advanced Intelligent Mechatronics, AIM, art. no. 5230011, pp. 215-220.

Ren, H., Meng, M.Q.-H.

[Node localization during power adjustment in wireless sensor networks](#)

(2009) Proceedings - IEEE International Conference on Robotics and Automation, art. no. 5152412, pp. 1128-1132.

Ren, H., Meng, M.Q.-H.

[Game-theoretic modeling of joint topology control and power scheduling for wireless heterogeneous sensor networks](#)

(2009) IEEE Transactions on Automation Science and Engineering, 6 (4), art. no. 5071145, pp. 610-625.