Yixuan YUAN

PERSONAL INFORMATION

Assistant Professor since April 9, 2018	Telephone : (852) 3442 7803
Department of Electrical Engineering	Email: yxyuan.ee@cityu.edu.hk
City University of Hong Kong, Hong Kong	Web: http://www.ee.cityu.edu.hk/~yxyuan

RESEARCH INTERESTS

Biomedical image analysis including image pre-processing and abnormality recognition, Saliency detection, Video summarization, Deep learning.

EDUCATION

The Chinese University of Hong Kong, Hong Kong Ph.D. in Biomedical Engineering Supervisor: Prof. Max, QH Meng, GPA: 3.821/4	Aug. 20	12 - Jul. 2016
Northwestern Polytechnical University, Xi'an, China B.E. in Information Countermeasure GPA: 3.68/4 (top 1%)	Sep. 200	06 - Jun. 2010
PREVIOUS WORK EXPERIENCE		
Stanford University , Palo Alto, United States Postdoctoral Fellow in Department of Radiation Oncology Supervisor : Prof. Lei Xing	Mar. 201	7 - Mar. 2018
The Chinese University of Hong Kong , Hong Kong Postdoctoral Fellow in Department of Electronic Engineering Supervisor : Prof. Max, QH Meng	Aug. 20	16 - Feb. 2017
Stanford University , Palo Alto, United States Visiting Student in Department of Radiology Supervisor : Prof. Daniel Rubin	Sep. 20	14 - Feb. 2015
Northwestern Polytechnical University (NPU), Xi'an, China Ph.D. Student in Pattern Recognition and Intelligent System Supervisor: Prof. Lei Guo and Prof. Tianming Liu	Sep. 201	10 - Jun. 2012
SELECTED AWARDS		
• Outstanding Teacher Award 2018/19 (Level 4 Course, 2st Pacific Engineering, CityU	rize),	May 2019
• 2017 Young Scientist Award, Hong Kong Institute of Science		Dec. 2017
• School of Medicine Dean's Postdoctoral Fellowship, Stanford	University	Jun. 2017
• Student Research Award, Hong Kong Medical and Healthcare De Industries Association	evice	Nov. 2015

• Global Scholarship Programme for Research Excellence, CUHK (Top 1%)	May 2014
• Overseas Research Attachment Program, CUHK (Top 5%)	Apr. 2014
• Toshio Fukuda Best Paper in Mechatronics, ICMA Committee (Top 1%)	Aug. 2013
• Hong Kong PhD Fellowship Scheme, Research Grants Council Aug. 201	2 - Jul. 2016
- The Highest Honor for a PhD Student in Hong Kong (Top 3%)	
• Outstanding Diploma Thesis Award, NPU (Top 5%)	Jun. 2010
• National Scholarship, China Ministry of Education (Top 1%)	Nov. 2008
– The Highest Honor for a Student in China	
• YueGangAo Special Scholarship, NPU (Top 3%)	Nov. 2007
• Excellent League Member, NPU	Jun. 2007
• First-class Student Award, NPU Nov. 2007	7 - Nov. 2009

PUBLICATIONS

Book Chapters

 Yixuan Yuan, Max Q.-H. Meng. "CAD of GI Diseases with Capsule Endoscopy." Computeraided Diagnosis and Therapy: Emerging Techniques for Medical Image Analysis and Applications. pp 285-301.

Journal Papers

- Zhen Chen, Xiaoqing Guo, Peter Y. M. Woo, Yixuan Yuan. "Super-Resolution Enhanced Medical Image Diagnosis with Sample Affinity Interaction." *IEEE Transactions on Medical Imaging*, 2021. (Impact Factor: 6.685, rank: 94.037%)
- Yuxuan Liu, Yixuan Yuan, Ming Liu, "Ground-aware Monocular 3D Object Detection for Autonomous Driving." *IEEE Robotics and Automation Letters (RA-L)*, 2021. (Impact Factor: 3.608, rank: 80.357%)
- Xiaoqing Guo, Chen Yang, Yajie Liu, Yixuan Yuan. "Learn to Threshold: ThresholdNet with Confidence-Guided Manifold Mixup for Polyp Segmentation." *IEEE Transactions on Medical Imaging*, DOI: 10.1109/TMI.2020.3046843, 2020. (Impact Factor: 6.685, rank: 94.037%)
- Xiaohan Xing, Yixuan Yuan*, Max Q.-H. Meng*. "Zoom in Lesions for Better Diagnosis: Attention Guided Deformation Network for WCE Image Classification." *IEEE Transactions on Medical Imaging*, 39(2):4047-4059, 2020. (Impact Factor: 6.685, rank: 94.037%)
- Yuqi Fang, Delong Zhu, Jianhua Yao, Yixuan Yuan*, Kai-yu Tong*. "ABC-Net: Area-Boundary Constraint Network with Dynamical Feature Selection for Colorectal Polyp Segmentation." *IEEE* Sensors Journal, DOI: 10.1109/JSEN.2020.3015831, 2020. (Impact Factor: 3.073, rank: 72.656%)
- 6. Xiaoqing Guo, **Yixuan Yuan**. "Semi-supervised WCE Image Classification with Adaptive Aggregated Attention." *Medical Image Analysis*, 10733, 2020. (Impact Factor: 11.148, rank: 98.88%)
- 7. Xiao Jia^{*}, Xiaohan Xing^{*}, **Yixuan Yuan^{*}**, Lei Xing, Max Q.-H. Meng. "Wireless Capsule Endoscopy: A New Tool for Cancer Screening in the Colon with Deep Learning-Based Polyp

Recognition." Proceedings of the IEEE, 108(1):178 - 197, 2020. (Co-first author, Impact Factor: 10.252, rank: 97.18%)

- Xiao Jia, Xiaochun Mai, Yi Cui, Yixuan Yuan, Hyunseok Seo, Lei Xing, Max Q.-H. Meng. "Automatic Polyp Recognition in Colonoscopy Images Using Deep Learning and Two-Stage Pyramidal Feature Prediction." *IEEE Transactions on Automation Science and Engineering (TASE)*, 17(3): 1570-1584, 2020. (Impact Factor: 4.938, rank: 80.159%)
- M. Kholiavchenko, I. Sirazitdinov, K. Kubrak, R. Badrutdinova, R. Kuleev, Yixuan Yuan, T. Vrtovec, Bulat Ibragimov. "Contour-Aware Multi-Label Chest X-Ray Organ Segmentation." International Journal of Computer Assisted Radiology and Surgery (IJCARS), 15:425-436, 2020. (Impact Factor: 2.473, rank: 67.381%)
- Yixuan Yuan, Wenjian Qin, Bulat Ibragimov, Guanglei Zhang, Bin Han, Max, Q.-H. Meng, Lei Xing. "Densely Connected Neural Network with Unbalanced Discriminant and Category Sensitive Constraint for Polyp Recognition." *IEEE Transactions on Automation Science and Engineering* (TASE), 17(2):574-583, 2020. (Impact Factor: 4.938, rank: 80.159%)
- 11. Bulat Ibragimov, Diego AS Toesca, Daniel T Chang, **Yixuan Yuan**, Albert C Koong, Lei Xing. "Automated hepatobiliary toxicity prediction after liver stereotactic body radiation therapy with deep learning-based portal vein segmentation." *Neurocomputing*, 392:181-188, 2020. (Impact Factor: 4.438, rank: 79.927%)
- 12. Bulat Ibragimov, Diego AS Toesca, Daniel T Chang, **Yixuan Yuan**, Albert C Koong, Lei Xing, Ivan R Vogelius. "Deep learning for identification of critical regions associated with toxicities after liver stereotactic body radiation therapy." *Medical Physics*, 47(8):3721-3731, 2020. (Impact Factor: 3.317, rank: 75.746%)
- Sirazitdinov Ilyas, Kholiavchenko Maksym, Mustafaev Tamerlan, Yixuan Yuan, Kuleev Ramil, Ibragimov, Bulat. "Deep neural network ensemble for pneumonia localization from a large-scale chest x-ray database." *Computers and Electrical Engineering*, 78:388-399, 2019. (Impact Factor: 2.663, rank: 63.208%)
- 14. Jian Liu Jingjing Cui, Fei Liu, Yixuan Yuan, Feng Guo, Guanglei Zhang. "Multi-subtype classification model for non-small cell lung cancer based on radiomics: SLS mode." *Medical Physics*, 46(7):3091 3100, 2019. (Impact Factor: 3.317, rank: 75.746%)
- 15. Bulat Ibragimov, Diego AS Toesca, Yixuan Yuan, Albert C Koong, Daniel T Chang, Lei Xing. "Neural networks for deep radiotherapy dose analysis and prediction of liver SBRT outcomes." Accepted by *IEEE Journal of Biomedical and Health Informatics (JBHI)*, 23(5):1821-1833, 2019. (Impact Factor: 5.223, rank: 98.148%)
- 16. Yixuan Yuan, Wenjian Qin, Mark Buyyounouski, Bulat Ibragimov, Steve Hancock, Bin Han, Lei Xing. "Prostate Cancer Classification with Multi-parametric MRI Transfer Learning Model." *Medical Physics*, 46(2):765 - 756, 2019. (Impact Factor: 3.317, rank: 75.746%)
- Hui Liu, Haiou Wang, Yixuan Yuan, Caiming Zhang. "Models for multiple attribute decision making with picture fuzzy information." *Journal of Intelligent and Fuzzy Systems*, 2019. (Impact Factor:1.851, rank: 41.971%)
- Yixuan Yuan, Dengwang Li, Max Q.-H. Meng. "Automatic Polyp Detection via A Novel Unified Bottom-up and Top-down Saliency Approach." *IEEE Journal of Biomedical and Health Informatics (JBHI)*, 22(4):1250 - 1260, 2018. (Impact Factor: 5.223, rank: 98.148%)
- 19. Yixuan Yuan, Xiwen Yao, Junwei Han, Lei Guo, Max Q.-H. Meng. "Discriminative Joint-feature Topic Model with Dual Constraints for WCE Classification." *IEEE Transaction on Cybernetics*

(TCYE), 48(7):2074 - 2085, 2018. (Impact Factor: 11.079, rank: 96.715%)

- Bulat Ibragimov, Diego Toesca, Daniel Chang, Yixuan Yuan, Albert Koong, Lei Xing. "Development of deep neural network for individualized hepatobiliary toxicity prediction after liver SBRT." *Medical Physics*, 45(10):4763 - 4774, 2018. (Impact Factor: 3.317, rank: 75.746%)
- Wenjian Qin, Jia Wu, Fei Han, Yixuan Yuan, Wei Zhao, Bulat Ibragimov, Jia Gu, Lei Xing. "Superpixel-based and boundary-sensitive convolutional neural network for automated liver segmentation." *Physics in Medicine and Biology*, 63(9): 095017, 2018. (Impact Factor: 2.883, rank: 66.045%)
- 22. Yixuan Yuan, Max Q.-H. Meng. "Deep Learning for Polyp Recognition in Wireless Capsule Endoscopy Images." *Medical Physics*, 44(4):1379-1389, 2017. (Impact Factor: 3.317, rank: 75.746%) (One of the four highest quality articles in Apirl 2017 issue (from 50 articles) chosen by the editor to feature at the Editors Picks Column as Open-Access article.)
- Yixuan Yuan, Baopu Li, Max Q.-H. Meng. "WCE Abnormality Detection based on Saliency and Adaptive Locality-constrained Linear Coding." *IEEE Transactions on Automation Science* and Engineering (TASE), 14(1):149 - 159, 2017. (Impact Factor: 4.938, rank: 80.159%)
- 24. Yixuan Yuan, Baopu Li, Max Q.-H. Meng. "Bleeding Frame and Region Detection in the Wireless Capsule Endoscopy Video." *IEEE Journal of Biomedical and Health Informatics (JBHI)*, 20(2):624 - 630, 2016. (Impact Factor: 5.223, rank: 98.148%)
- 25. Yixuan Yuan, Baopu Li, Max Q.-H. Meng. "Improved Bag of Feature for Automatic Polyp Detection in Wireless Capsule Endoscopy Images." *IEEE Transactions on Automation Science and Engineering (TASE)*, 13(2):529-535, 2016. (Impact Factor: 4.938, rank: 80.159%)
- 26. Yixuan Yuan, Jiaole Wang, Baopu Li, Max Q.-H. Meng. "Saliency based Ulcer Detection for Wireless Capsule Endoscopy Diagnosis." *IEEE Transactions on Medical Imaging (TMI)* 34(10):2046-2057, 2015. (Impact Factor: 6.685, rank: 94.037%)
- 27. Yixuan Yuan, Max Q.-H. Meng. "Hierarchical Key Frame Extraction for Wireless Capsule Endoscopy Video Based on the Saliency Map." International Journal of Mechatronics and Automation (IJMA) 4(4):259-268, 2014.
- 28. **Yixuan Yuan**, Xi Jiang, Dajiang Zhu, Hanbo Chen, Kaiming Li, Peili Lv, Xiang Yu, Xiaojin Li, Shu Zhang, Tuo Zhang, Xintao Hu, Junwei Han, Lei Guo, Tianming Liu. "Meta-Analysis of Functional Roles of DICCCOLs." *Neuroinformatics* 11(1):47-63, 2013. (Impact Factor: 3.300, rank: 64.679%)
- 29. Hanbo Chen, Kaiming Li, Dajiang Zhu, Xi Jiang, Yixuan Yuan and Peili Lv, Tuo Zhang, Lei Guo, Dinggang Shen, Tianming Liu. "Inferring Group-wise Consistent Multimodal Brain Networks via Multi-view Spectral Clustering." *IEEE Transactions on Medical Imaging (TMI)* 32(9):1576-1586, 2013. (Impact Factor: 6.685, rank: 94.037%)
- 30. Dajiang Zhu, Kaiming Li, Lei Guo, Xi Jiang, Tuo Zhang, Degang Zhang, Hanbo Chen, Fan Deng, Carlos Faraco, Changfeng Jin, Chong-Yaw Wee, Yixuan Yuan, Peili Lv, Yan Yin, Xiaolei Hu, Lian Duan, Xintao Hu, Junwei Han, Lihong Wang, Dinggang Shen, L Stephen Miller, Lingjiang Li, Tianming Liu. "DICCCOL: Dense Individualized and Common Connectivity-based Cortical Landmarks." Cerebral Cortex 23(4):786-800, 2013. (Impact Factor: 5.043, rank: 81.434%)
- 31. Jingxin Nie, Lei Guo, Kaiming Li, Yonghua Wang, Guojun Chen, Longchuan Li, Hanbo Chen, Fan Deng, Xi Jiang, Tuo Zhang, Ling Huang, Carlos Faraco, Degang Zhang, Cong Guo, Pew-Thian Yap, Xintao Hu, Gang Li, Jinglei Lv, Yixuan Yuan, Dajiang Zhu, Junwei Han, Dean Sabatinelli, Qun Zhao, L Stephen Miller, Bingqian Xu, Ping Shen, Simon Platt, Dinggang Shen,

Xiaoping Hu, Tianming Liu. "Axonal Fiber Terminations Concentrate on Gyri." *Cerebral Cortex* 22(12): 2831-2839, 2012. (Impact Factor: 5.043, rank: 81.434%)

32. Kaiming Li, Lei Guo, Carlos Faraco, Dajiang Zhu, Hanbo Chen, Yixuan Yuan Jinglei Lv, Fan Deng, Xi Jiang, Tuo Zhang, Xintao Hu, Degang Zhang, L. Stephen Miller, Tianming Liu. "Visual analytics of brain networks." *NeuroImage* 61(1):82-97, 2012. (Impact Factor: 5.902, rank: 96.429%)

Conference Papers

- 1. Zhen Chen, Jun Zhang, Shuanlong Che, Junzhou Huang, Xiao Han^{*}, **Yixuan Yuan^{*}**. "Diagnose Like A Pathologist: Weakly-Supervised Pathologist-Tree Network for Slide-Level Immunohisto-chemical Scoring." *The Thirty-Fifth AAAI Conference on Artificial Intelligence (AAAI-21)*.
- 2. Zhen Chen, Xiaoqing Guo, Chen Yang, Bulat Ibragimov, Yixuan Yuan. "Joint Spatial-Wavelet Dual-Stream Network for Super-Resolution." The 22nd International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI 2020), Lima, Peru.
- 3. Qiushi Yang, **Yixuan Yuan**. "Learning Dynamic Convolutions for Multi-Modal 3D MRI Brain Tumor Segmentation." Brain Lesion (BrainLes) workshop of The 23nd International Conference on Medical Image Computing and Computer Assisted Intervention, Lima, Peru, 2020.
- Xiaohan Xing, Yixuan Yuan*, Q.-H. Meng*. "Diagnose like a Clinician: Third-order Attention Guided Lesion Amplification Network for WCE Image Classification." 2020 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2020), Las Vegas, USA.
- 5. Xiaoqing Guo, Zhen Chen, **Yixuan Yuan**. "Complementary Network with Adaptive Receptive Fields for Melanoma Segmentation." *IEEE International Symposium on Biomedical Imaging 2020* (*ISBI 2020*), Iowa City, Iowa.
- Wenjian Qin, Zhibo Xiao, Yaoqin Xie, Yixuan Yuan. "Self-Paced Learning for Automatic Prostate Segmentation on MR Images with Hierarchical Boundary Sensitive Network." The 2020 IEEE International Conference on Real-time Computing and Robotics (IEEE RCAR 2020), Asahikawa, Japan.
- Xiaoqing Guo, Chen Yang, Pak Lun Lam, Peter YM Woo, Yixuan Yuan. "Domain Knowledge Based Brain Tumor Segmentation and Overall Survival Prediction." Brain Lesion (BrainLes) workshop of The 22nd International Conference on Medical Image Computing and Computer Assisted Intervention, Shenzhen, China, 2019.
- 8. Xiaoqing Guo, **Yixuan Yuan**. "Triple ANet: Adaptive Abnormal-aware Attention Network for WCE Image Classification." 22th International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI 2019), Shenzhen, China, 2019 (Early Accept).
- Yuqi Fang, Cheng Chen, Delong Zhu, Yixuan Yuan*, Kai Yu Raymond Tong*. "Selective Feature Aggregation Network with Area-boundary Constraints for Polyp Segmentation." 22th International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI 2019), Shenzhen, China, 2019 (Early Accept).
- Xiaohan Xing, Yixuan Yuan*, Xiao Jia, Max Q.-H. Meng*. "A Saliency-Aware Hybrid Dense Network for Bleeding Detection in Wireless Capsule Endoscopy Images." *IEEE International Symposium on Biomedical Imaging (ISBI 2019)*, Venice, Italy, 2019.
- 11. Yixuan Yuan, Wenjian Qin, Xiaoqing Guo, Buyyounouski Mark, Steve Hancock, Lei Xing. " Prostate Segmentation with Encoder-Decoder Densely Connected Convolutional Network (ED-

DenseNet)." *IEEE International Symposium on Biomedical Imaging* (ISBI 2019), Venice, Italy, 2019.

- Yixuan Yuan, Wenjian Qin, Bulat Ibragimov, Bin Han, Lei Xing. "RIIS-DenseNet: Rotation-Invariant and Image Similarity Constrained Densely Connected Convolutional Network for Polyp Detection." 21th International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI 2018), Granada, Spain, 2018.
- Bulat Ibragimov, Diego AS Toesca, Yixuan Yuan, Albert C Koong, Daniel T Chang, Lei Xing.
 "Deep 3D dose analysis for prediction of outcomes after liver stereotactic body radiation therapy." 21th International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI 2018), Granada, Spain, 2018.
- 14. Yixuan Yuan, Wenjian Qin, Mark Buyyounouski, Steve Hancock, H.P. Bagshaw, Bin Han, Lei Xing. "Automatic Prostate Segmentation using Deep Learning and MR Images." *Annual Meeting of the American Society for Radiation Oncology (ASTRO 2018)*, Chicago, United States, 2018.
- 15. Bin Han, **Yixuan Yuan**, Steve Hancock, H.P. Bagshaw, Mark Buyyounouski, Lei Xing. "Prostate Cancer Staging and Radiation Treatment Planning Using Deep Learning on MR." *Annual Meeting* of the American Society for Radiation Oncology (ASTRO 2018), Chicago, United States, 2018.
- Yixuan Yuan, Max Q.-H. Meng, Wenjian Qin, Lei Xing. "Liver Lesion Detection based on Two-Stage Saliency Model with Modified Sparse Autoencoder." 20th International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI 2017), Quebec, Canada, 2017.
- 17. Yixuan Yuan, Max Q.-H. Meng. "A Novel Global and Local Saliency Coding Method for Polyp Recognition in WCE Videos." *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2016)*, Daejeon, Korea, 2016.
- Yixuan Yuan, Assaf Hoogi, Christopher F. Beaulieu, Max Q.-H. Meng and Daniel L. Rubin. "Weighted Locality-Constrained Linear Coding for Lesion Classi-fication in CT Images." The 37th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC 2015), Milano, Italy, 2015.
- Yixuan Yuan, Max Q.-H. Meng. "Automatic Bleeding Frame Detection in the Wireless Capsule Endoscopy Images." *IEEE International Conference on Robotics and Automation (ICRA 2015)*, Seattle, United States, 2015.
- Yixuan Yuan, Max Q.-H. Meng. "A Novel Feature for Polyp Detection in Wireless Capsule Endoscopy images." *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2014)*, Chicago, United States, 2014.
- Yixuan Yuan, Max Q.-H. Meng. "Polyp Classification Based on Bag of Features and Saliency in Wireless Capsule Endoscopy." *IEEE International Conference on Robotics and Automation* (ICRA 2014), Hong Kong, 2014.
- Yixuan Yuan, Max Q.-H. Meng. "Hierarchical key frames extraction for WCE video." *IEEE International Conference on Mechatronic and Automation (ICMA 2013)*, Takamatsu, Japan, 2013. (Toshio Fukuda Best Award in Mechatronics)
- Yixuan Yuan, Lei Guo, Peili Lv, Xintao Hu, Degang Zhang, Junwei Han, Li Xie, Tianming Liu. "Assessing Graph Models for Description of Brain Networks." *IEEE International Symposium on Biomedical Imaging (ISBI 2011)*, Chicago, United States, 2011.

- 24. Yixuan Yuan, Lei Guo, Gang Li, Tuo Zhang, Xintao Hu, Tianming Liu. "Joint analysis of cortical folding pattern, thickness and fiber density using structural and DTI data." *IEEE International Symposium on Biomedical Imaging (ISBI 2010)*, Rotterdam, Netherlands, 2010.
- 25. Zhaojin Gong, Jianfeng Lu, Jia Chen, Yaping Wang, Yixuan Yuan, Tuo Zhang, Lei Guo, L. Stephen Miller. "Ventricle shape analysis for centenarians, elderly subjects, MCI and AD patients." *First international conference on Multimodal brain image analysis (MBIA 2011)*, Toronto, Canada, 2011.

EXTERNAL RESEARCH GRANTS

Sichuan Provincial Science and Technology Research Grants	Feb. 2019
• Research on Automatic Diagnosis System of Wireless Capsule Endoscope Imag	e
• RMB 100,000, PI	
Contract Based Research Fund	Jul. 2019
• Provision of Services for the Development of Capsule Endoscopy Video Analay	sis Algorithm
• HKD 200,000, PI	
Shenzhen-Hong Kong Innovation Circle Category D Project	Oct. 2019
• DeepProstate: An Intelligent Platform for Prostate Segmentation, Cancer Stagin with MRI images	ng and Assessment
• HKD 3,080,000, PI	
Collaborative Research Fund	Feb. 2020
$\bullet \ A \ Robotic \ Wireless \ Capsule \ Endoscopic \ System \ for \ Automated \ Gastrointestinal$	Disease Diagnosis
• HKD 825,000, Co-I	
ECS - Early Career Scheme	Jul. 2020
• Domain Knowledge Driven Deep Models for Automatic Gastrointestinal Diseas	se Diagnosis
• HKD 534,288, PI	
National Natural Science Foundation of China Research Grants	Sep. 2020
• Automatic Colorectal Cancer Detection and Segmentation with Endoscopy Ima	ges
• RMB 240,000, PI	
• Young scholar scheme	
PROFESSIONAL ACTIVITIES	
Academic Organizer and Chair	

- Area Chair in MICCAI 2019
- Program Committee of The 2nd Intelligence in Medicine Symposium Aug. 2018
- Program Co-Chairs of IEEE International Conference on Information and Aug. 2018 Automation
- Session chair of IEEE International Conference on Information and Automation Aug. 2017
- Session chair of IEEE International Conference on Information and Automation Aug. 2016

Aug. 2018

• Session chair of IEEE International Conference on Information and Auto	mation	Aug.	2015
Conference Presentations			
• MICCAI, Quebec, Canada		Sep.	2017
• IROS , Daejeon, Korea		Oct.	2016
• EMBS, Milano, Italy		Aug.	2015
• ICRA, Seattle, United States		May	2015
• IROS , Chicago, United States		Sep.	2014
• ICRA, Hong Kong		May	2014
• ICMA, Takamatsu, Japan		Aug.	2013
Technical Reviewers			
• IEEE Transaction on Medical Imaging			
• IEEE Transaction on Industrial Informatics			
• IEEE Journal of Biomedical and Health Informatics			
• Biomedical Optics Express			
• Computers in Biology and Medicine			
• Journal of Imaging			
• Signal, Image and Video Processing			
• IEEE International Conference on Robotics and Automation			
• IEEE International Conference on Information and Automation ACHING EXPERIENCES			
ACHING EXPERIENCES Computer Vision (EE4211), CityU of HK	Jan. 2020) - Apr.	2020
ACHING EXPERIENCES	Jan. 2020	0 - Apr.	2020
ACHING EXPERIENCES Computer Vision (EE4211), CityU of HK	Jan. 2020 Sep. 2019	_	
ACHING EXPERIENCES Computer Vision (EE4211), CityU of HK • Course Leader Medical Imaging and Signal Processing (EE3919), CityU of HK • Course Leader Digital Image Processing (EE4206), CityU of HK		9 - Dec.	2019
ACHING EXPERIENCES Computer Vision (EE4211), CityU of HK • Course Leader Medical Imaging and Signal Processing (EE3919), CityU of HK • Course Leader	Sep. 201	9 - Dec.	2019
ACHING EXPERIENCES Computer Vision (EE4211), CityU of HK • Course Leader Medical Imaging and Signal Processing (EE3919), CityU of HK • Course Leader Digital Image Processing (EE4206), CityU of HK	Sep. 2019 Jan. 2019	9 - Dec. 9 - Apr.	2019 2019
ACHING EXPERIENCES Computer Vision (EE4211), CityU of HK • Course Leader Medical Imaging and Signal Processing (EE3919), CityU of HK • Course Leader Digital Image Processing (EE4206), CityU of HK • Course Leader	Sep. 2019 Jan. 2019	9 - Dec. 9 - Apr.	2019 2019
ACHING EXPERIENCES Computer Vision (EE4211), CityU of HK • Course Leader Medical Imaging and Signal Processing (EE3919), CityU of HK • Course Leader Digital Image Processing (EE4206), CityU of HK • Course Leader Research Methods in Biomedical Engineering (BMEG5610), CUHK • Teaching Assistant with Prof. Arthur Fuk-Tat Mak Biomedical Ethics, Safety and Practice (BMEG 3110), CUHK	Sep. 2019 Jan. 2019	9 - Dec. 9 - Apr. 6 - Apr.	2019 2019 2016
ACHING EXPERIENCES Computer Vision (EE4211), CityU of HK • Course Leader Medical Imaging and Signal Processing (EE3919), CityU of HK • Course Leader Digital Image Processing (EE4206), CityU of HK • Course Leader Research Methods in Biomedical Engineering (BMEG5610), CUHK • Teaching Assistant with Prof. Arthur Fuk-Tat Mak	Sep. 2019 Jan. 2019 Jan. 2010	9 - Dec. 9 - Apr. 6 - Apr.	2019 2019 2016
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ACHING EXPERIENCES Computer Vision (EE4211), CityU of HK • Course Leader Medical Imaging and Signal Processing (EE3919), CityU of HK • Course Leader Digital Image Processing (EE4206), CityU of HK • Course Leader Research Methods in Biomedical Engineering (BMEG5610), CUHK • Teaching Assistant with Prof. Arthur Fuk-Tat Mak Biomedical Ethics, Safety and Practice (BMEG 3110), CUHK • Teaching Assistant with Prof. Arthur Fuk-Tat Mak	Sep. 2019 Jan. 2019 Jan. 2016 Jan. 2014	9 - Dec. 9 - Apr. 6 - Apr. 4 - Apr.	2019201920162014
ACHING EXPERIENCES Computer Vision (EE4211), CityU of HK • Course Leader Medical Imaging and Signal Processing (EE3919), CityU of HK • Course Leader Digital Image Processing (EE4206), CityU of HK • Course Leader Research Methods in Biomedical Engineering (BMEG5610), CUHK • Teaching Assistant with Prof. Arthur Fuk-Tat Mak Biomedical Ethics, Safety and Practice (BMEG 3110), CUHK • Teaching Assistant with Prof. Arthur Fuk-Tat Mak Medical Instrumentation and Sensors (ELEG 3240), CUHK	Sep. 2019 Jan. 2019 Jan. 2016 Jan. 2014	 9 - Dec. 9 - Apr. 6 - Apr. 4 - Apr. 3 - Dec. 	 2019 2019 2016 2014 2013
ACHING EXPERIENCES Computer Vision (EE4211), CityU of HK • Course Leader Medical Imaging and Signal Processing (EE3919), CityU of HK • Course Leader Digital Image Processing (EE4206), CityU of HK • Course Leader Research Methods in Biomedical Engineering (BMEG5610), CUHK • Teaching Assistant with Prof. Arthur Fuk-Tat Mak Biomedical Ethics, Safety and Practice (BMEG 3110), CUHK • Teaching Assistant with Prof. Arthur Fuk-Tat Mak Medical Instrumentation and Sensors (ELEG 3240), CUHK • Teaching Assistant with Prof. Zhang Yuanting	Sep. 2019 Jan. 2019 Jan. 2010 Jan. 2014 Sep. 2015	 9 - Dec. 9 - Apr. 6 - Apr. 4 - Apr. 3 - Dec. 	 2019 2019 2016 2014 2013