WiMIUA 2022 Conference Programme

https://www.miua2022.com/WiMIUA

Wednesday 27th July 2022 – 16:00 – 18:00

16:00 – 16:15 Opening Ceremony

16:15 – 16:55 **Keynote Prof. Fiona Gilbert (University of Cambridge)**
Chair: Angelica Aviles-Rivero (University of Cambridge)

16:55 – 17:35 **Keynote Dr. Yueming Jin (University College London)**
Chair: Emma Wang (University of Cambridge)

17:35 – 17:50 Ceremony Awards (Sponsored by Microsoft and MathWorks)

17:50 – 19:00 **Poster Session & Hors d'oeuvre Closing Event WiMIUA Workshop**

POSTER ID	PAPER
1	Lesion-Specific 3D-Printed Moulds of Pelvic Tumours for Image-Guided Tissue Sampling of High Grade Serous Ovarian Carcinoma *Maria Delgado-Ortet, Marika Reinius, Cathal McCague, Vlad Bura, Ramona Woitek, Andrew B. Gill, Mercedes Jimenez-Linan, Helen Bolton, Krishnayan Haldar, Pubudu Pathiraja, Mireia Crispin-Ortuzar, James D. Brenton, Lorena Escudero Sánchez and Evis Sala*
2	Predicting Myocardial Infarction using Retinal OCT Imaging *Cynthia Maldonado Garcia, Rodrigo Bonazzola, Nishant Ravikumar, Alejandro F Frangi*
3	Deep learning model for contrast identification on chest CT scans *Ingrid van Peufflik, Flore Belmans, François Blistein, Sean Walsh, Wim Vos, Mariaelena Occhipinti, Akshayaa Vaidyanathan*
4	Deep Reinforcement Learning-based Guidance in Freehand Obstetric Ultrasound Training *C. Di Vece, B. Dromey, F. Vasconcelos, A. L. David , D. Peebles, D. Stoyanov*
5	Modelling Patient Specific Inter-fractional Anatomical Changes During Radiotherapy Treatment *Poppy Nikou, Andrew Nisbet, Anna Thompson, Sarah Gulliford, Jamie McClelland*
6	A Neural Architecture Search based Framework for Segmentation of Epithelium, Nuclei and Oral Epithelial Dysplasia Grading *Neda Azarmehr, Adam Shephard, Hanya Mahmood, Nasir Rajpoot, Syed Ali Khurram*

7	Self-Supervision and Multi-Task Learning: Challenges in Fine-Grained COVID-19 Multi-Class Classification from Chest X-rays *Muhammad Ridzuan, Ameera Bawazir, Ivo Gollini Navarrete, Ibrahim Almakky, and Mohammad Yaqub*
8	Development of a two-stage deep learning approach for classification of arteries and veins in 3D vasculature *Emmeline Brown MRes, Gabriela Grimaldi, Rajna Rasheed, Natalie Holroyd, Claire Walsh, Rebecca Shipley, Ranjan Rajendram, Simon Walker-Samuel*
9	Lung Segmentation Using ResUnet++ Powered by Variational Auto Encoder-Based Enhancement in Chest X-ray Images *Samar Ibrahim, Kareem Elgohary, Mahmoud Higazy, Thanaa Mohannad, Sahar Selim and Mustafa Elattar*
10	Spatiotemporal attention constrained deep learning framework for dual-tracer PET imaging *Dankun Lian, Yue Li and Huafeng Liu*
11	Preoperative CT and intraoperative CBCT image registration and evaluation in robotic cochlear implant surgery *Chenxi Lu, Bo Dong, Xi Hu, Yang Zhao, Hongjian He, and Jing Wang*
12	Vertebral Column Segmentation Using Single-staged CNNs *Sevde Aydogdu, Danail Stoyanov, Deepak M. Kalaskar, and Evangelos Mazomenos*
13	Synergistic Image and Slice Level Contrastive Learning for Meningioma Grading from 3D MRI Images *Jiayuan Zhu, Shujun Wang, Lequan Yu*
14	Low-effort re-identification techniques based on medical imagery threaten patient privacy *Laura Carolina Martínez Esmeral & Andreas Uhl University of Salzburg*
15	USING DEEP LEARNING ON X-RAY ORTHOGONAL CORONARY ANGIOGRAMS FOR QUANTITATIVE CORONARY ANALYSIS *Laura Busto, José A. González-Nóvoa, Pablo Juan-Salvadores, Víctor Jiménez, Andrés Íñiguez, and César Veiga*
16	Contrastive Pretraining for Echocardiography Segmentation with Limited Data *Rand Muhtaseb*, Mohamed Saeed* and Mohammad Yaqub*
17	On the feasibility of radiomic analysis for the detection of breast lesion in speed-of-sound images of the breast *Angie Hernández, Andres Vargas, Ana Ramirez, Said Pertuz*
18	Ongoing investigation of locoregional failure classification in head and neck cancer for prognostic imaging biomarker discovery *Ceilidh Welsh, Karl Harrison, Alfie Beard, Ian Gleeson, Nick Early, Andrew Hoole, Amy Bates, Richard Benson, Sarah Jefferies, Raj Jena, Gill Barnett*
19	Deep learning-based prediction of response to neoadjuvant chemotherapy in breast cancer from Pre-treatment DCE-MRI *Fatemeh Darvizeh, Gabrielle C. Baxter, Dimitri Kessler, Roie Manavaki, Joshua Kaggie, Martin J. Graves, Fiona J. Gilbert*
20	CS2: A Controllable and Simultaneous Synthesizer of Images and Annotations with Minimal Human Intervention *Xiaodan Xing, Guang Yang*
21	Full-Reference Image Quality Assessment for Medical Images *Anna Breger*
22	Confidence Calibration using a Bayesian Variational Inference-based approach for Colorectal Polyp Classification *Nikoo Dehghani*