

A joint meeting with







ARTIFICIAL INTELLIGENCE IN RADIOLOGY 2020 Venue: Cavendish Conference Centre, London CPD: 12 CREDITS



Bayer have part funded this event





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After the success of the last two artificial intelligence events in 2018 and 2019, jointly organised by The British Institute of Radiology and Royal College of Radiologists, we are back again in 2020. This time it will be even bigger and better with a new format!

This year's event will be held across two-days with sessions appealing to our multidisciplinary audience.

Day one will cover talks on AI from a global perspective and the progressive work in this field being undertaken across continents. This will be followed by a session on AI in oncology in the afternoon, with eminent speakers in this field led by Royal Marsden Hospital.

Day two will cover clinical research-based talks being undertaken across the country to aid the healthcare industry with enhancing patient care / pathways and cutting-edge technology.

Throughout the two days, there will be proffered oral presentations showcasing research projects at various stages of development and also industry sponsored talks discussing their pioneering work.

We invite all radiologists (consultants and trainees), radiographers, physicists, oncologists as well as other healthcare professionals and those with an interest in AI to join us at this exciting event.

Programme organisers

Dr Hugh Harvey, Managing Director, Hardian Health

Dr Christina Messiou, Consultant Radiologist, Royal Marsden Hospital

Professor Nicola Strickland, Consultant Radiologist, Imperial College Healthcare NHS Trust; Immediate Past President of the Royal College of Radiologists

Dr Sri Redla, Honorary Secretary, British Institute of Radiology

A special thank you to our industry sponsors







AGFA 🛷

HealthCare













Day 1

09:00	Registration and refreshments	
09:20	Welcome and introduction	
	11:40	
09:30	Al in radiology: UK's perspective Professor Nicola Strickland, Consultant Radiologist, Imperial College Healthcare NHS Trust	
10:00	Al in radiology: India/Israel perspective Dr Sreenivasa Raju Kalidindi, CEO and Medical Director, Apollo Radiology International, Hyderabad; Mr Eyal Gura, Co-Founder and Chairman, Zebra Medical Vision	12:00 12:20
10:30	Al in radiology – Approaches to Al challenges in medical imaging : USA's perspective Professor Daniel Rubin, Professor of Biomedical Data Science, Radiology, and Medicine; Ophthalmology Director of Biomedical Informatics, Stanford University	12:40
11:00	Discussion	
11:10	Refreshments	

Industry and proffered papers Chair: Dr Hugh Harvey

11:40	TexRAD Texture (Radiomics) analysis of CT and MR data – ready for
	routine clinical use?
	Mr Balaji Ganeshan, Senior
	Imaging Scientist, Institute
	of Nuclear Medicine,
	University College London;
	Founder of TexRAD Texture
	(Radiomics) – software

12:00 Next-generation radiology Al: The journey from an Al algorithm to a partner Mr Jeremy De Sy, European Sales Manager, Aidoc

12:20 Practical AI in radiology. Ensuring value-based application and improving outcomes – IT industry's perspective Dr Anjum Ahmed, Chief Medical Officer, Agfa HealthCare

2:40 Baseline audit of CXR reporting Al in a DGH setting Dr Adrian Tang, Consultant Radiologist, Macclesfield District Hospital – East Cheshire NHS Trust

Day 1

- 12:55 ASPIRE[™]: Computer-aided opportunistic identification of vertebral fractures in computed tomography images Dr Paul Bromiley, Lecturer in Health Data Sciences, University of Manchester
- 13:10 Fact and fiction a view of Al's evolving potential in diagnostics Dr John Kalafut, Senior Director Innovation and Solutions, GE Healthcare Digital
- 13:30 Lunch

Al in oncology Chair: Dr Christina Messiou

- 14:25 Attitudes and perceptions of AI and machine learning in cancer imaging: Findings of an international survey Professor Dow Mu Koh, Consultant Radiologist in Functional Imaging, Royal Marsden and Institute of Cancer Research
- 14:55 Harnessing the power of Al to improve outcomes for patients with cancer Dr Christina Messiou, Consultant Radiologist, Royal Marsden and Institute of Cancer Research
- 15:25 Refreshments

- 15:55 Radiomics simplified: False discovery or genuine insight? Dr Nickolas Papanikolaou, Research Group Lead, Computational Clinical Imaging Group, Centre for the Unknown, Champalimaud Foundation
- 16:25 Good and bad data in machine learning for imaging Dr Ben Glocker, Reader in Machine Learning for Imaging, Imperial College Healthcare NHS Trust
- 16:55 Panel discussion
- 17:15 Close of event

Day 2

08:30 Registration and		10:30 Refreshments		
08:50	refreshments Welcome and introduction	Industry and proffered papers Chair: Dr Hugh Harvey		
Clinical research Chair: Dr Hugh Harvey and Dr Sridhar Redla		11:00	Is AI the key to effective and sustainable lung cancer	
09:00	Medical device regulatory environment and how it applies to AI		Dr Lizzie Barclay, Medical Associate, Aidence	
	Dr Hugh Harvey, Managing Director, Hardian Health	11:20	Workflow integration's critical role in successful radiology AI	
09:30	The iCaird project – screening mammography and AI in the Scottish Breast Screening System Dr Gerald Lip, Clinical Director, North Fast		implementation Mr Philip Brentnall, Product Strategy Manager and Clinical Lead, Wellbeing Software	
	Scotland Breast Screening Programm; Consultant Radiologist, Aberdeen Royal Infirmary	11:40	Al doctor will see you now Mr Graham King, Zebra Medical Vision, Sales Director – Europe	
10:00 Artificial intelligence and training – the National Imaging Academy Wales experience Dr Phillip Wardle, Director, National Imaging Academy		12:00	AI-based breast cancer risk assessment using low dose mammography Dr Sue Astley, Reader in Imaging Science, University of Manchester	
	Radiologist, Cwm Taf University Health Board; Dr Thomas Micic, Consultant Radiologist, Cardiff & Vale University Health Board; Dr Asad Saeed, ST4, Radiologist, South Wales Radiology Training Scheme	12:15	Detection of skeletal abnormalities on fetal post- mortem skeletal surveys using artificial intelligence Dr Susan Shelmerdine, Paediatric Radiology Research Fellow, Great Ormond Street Hospital for Children NHS Trust	

Day 2

12:30	Can artificial intelligence improve physician sensitivity in detecting early ischemic damage on computed tomography? – The interim analysis Dr Anna Podlasek, Clinical Fellow, Southend University Hospital NHS Foundation		15:30	Practicalities of using AI for vertebral fracture detection in the NHS setting Dr Kassim Javaid, Consultant in Metabolic Medicine, Oxford University Hospitals NHS Foundation Trust
12:45	Lunch		Industry session and proffered paper Chairs: Dr Vijay Jayaram and Dr Vinee Prakash	
Clinical research Chairs: Dr Vijay Jayaram and Dr Vineet				
	Prakasn		16:00	Structured reporting – Creating the data pipeline
13:45	Human-robot interactions / AI applications and ethics in healthcare Professor Farshid Amirabdollahian, Professor of Human-Robot Interaction at the School of Engineering and Computer Science, The University of Hertfordshire What can we do to enable		16:20	for AI Dr Thomas Huber, Head of Scientific Collaborations, Smart Reporting GmbH Subtle Medical: Using AI to improve image quality, patient satisfaction, safety, and efficiency Dr Greg Zaharchuk, Co- founder, Subtle Medical
	scalable, routine access to large volumes of imaging data to support the training of AI for use in clinical care? Dr Emily Jefferson, Director of Health Informatics Centre and Professor of Health Data Science, University of Dundee and Health Data Research UK		16:40	Identification of vertebral fractures in CT supports fracture prevention in osteoporosis Ms Jill Griffin, Clinical Lead Quality Improvement, The Royal Osteoporosis Society Close of event
15:00	Refreshments			

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22 Duchess Mews, Marylebone London W1G 9DT

BY LONDON UNDERGROUND:

Oxford Circus Underground Station (Victoria, Central, & Bakerloo Line) is 5 minutes walk away. Take Exit 4 on leaving Oxford Circus station, walk North up Regent Street and you will pass the Langham Hotel on your left and BBC Corporation House on your right. Turn left into Duchess Street and almost immediately you will see Duchess Mews on your right hand side, where our sign is clearly displayed at the end of the Mews on the left. Alternatively Duchess Street is the 5th turn left when you have left Oxford Circus Tube Station and have started to walk North up Regent Street.

BY TRAIN

Marylebone, Euston and Kings Cross St Pancras Stations are all within 10 minutes taxi rides or alternatively 15 minutes by Underground. Paddington Station (which has a direct link to Heathrow every 15 minutes) is 20 minutes walk or 10 minutes in a taxi.

BY CAR

To plan your journey by car visit The AA's Route Planner and enter our postcode: W1G 9DT. Please note that this venue is within the Congestion Charge Zone.

Car Parking

On street Pay & Display parking is available outside the Conference Centre; otherwise there are NCP Car Parks, as listed below, all within 5 minutes walk of the venue:

Weymouth Mews Chandos Street Cavendish Square Blue Badge Parking Scheme Blue Badge Parking Scheme To view spaces in the area reserved for Blue Badge holders on a map please visit GOV.UK and enter our postcode: W1G 9DT.

BY FOOT

To reach Cavendish Conference Centre on foot maps and directions can be found on walkit.com. Just enter your start location and our postcode: W1G 9DT for the best walking



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