



AV 2025

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# Conference Programme

8-10 September | Cambridge UK

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# **International Conference on AI in Healthcare**

Second Edition

8-10 September 2025, Cambridge, UK

# Welcome

On behalf of the organising committee, we welcome all delegates from 27 different countries to attend this second edition of the International Conference on Artificial Intelligence in Healthcare (AIIH 2025), which is hosted in September 2025 in the Jesus College, University of Cambridge, UK.

AIIH aims to provide a prominent platform for researchers and practitioners who are devoted to improving healthcare using modern artificial intelligence. We recognise that healthcare applications present complex and sometimes unique challenges across a wide spectrum, from ethics to technical developments, that generic AI methods are often inadequate. By creating this dedicated forum, we encourage discussions and disseminations of efficient and effective AI solutions and technologies for healthcare, and in turn we hope to influence the research, technology adoption, and decision making in healthcare.

This year, a total of 83 full-length papers (12 pages plus to 2 pages of references) and 102 short abstracts (up to 5 pages in length) were received by the April deadline. AIIH 2025 continued to adopt the double-blind peer review policy for full-length papers. Each paper received at least 3 reviews, with an average of 3.6 reviews. Abstracts received 2 or 3 expert reviews per submission. A total of 60 full-length papers are selected for publication in the proceedings and 46 abstracts (excluding late-breaking abstracts) are digitally archived online with DOIs. Contributing authors are from 27 countries, which reflects the international nature of the conference. The best paper prize will be selected and awarded at the conference.

We would like to thank all reviewers for their diligent work and prompt responses. In particular, we would like to highlight the following outstanding reviewers for their hard work in providing detailed, insightful and high quality reviews for all the

papers assigned to them: Edouard Chatzopoulos from UCLouvain, Jingjing Deng from Bristol University, Robert Fisher from Edinburgh University, María Garrosa from Universidad Carlos III de Madrid, Chen Hu from Swansea University, Batuhan Karaman from Cornell University, Vincent Zakka from Aston University, Lu Zhang from Loughborough University, and Yixin Zhang from Columbia University.

We are honored to have 5 distinguished scholars as invited speakers. Dr. Meng Fang from University of Liverpool delivers the conference tutorial on Large Language Models. The 4 keynotes are given by Prof. Kerstin Denecke from Bern University of Applied Sciences, Switzerland, Prof. Yulan He from Kings College London, Prof. Daniel Elson from Imperial College London, and Prof. Elvira Perez Vallejos from University of Nottingham & RAI UK. AIiH 2025 also features a Panel Session on Responsible AI for Healthcare chaired by Prof. Elvira Perez Vallejos. We are grateful to their inspiring contributions.

We are indebted to several people who have contributed generously to the organization of the conference: Yilun Zhang, Hanchi Ren, and many student volunteers. We are grateful to the Special Session organizers whose contributions have enriched the conference program and widened our participation. The conference has received generous support from industrial sponsors. We would like to thank Springer in extending their support to publish the proceedings in LNCS. Finally, we thank all the presenting authors and attendees who make the second iteration of this new conference series intellectually stimulating and enjoyable.

Daniele Cafolla  
Timothy Rittman  
Hao Ni  
Xianghua Xie

# People

## General Chair:

Daniele Cafolla

Swansea University

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Yi Hu	Swansea University, UK
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Riti Paul	Arizona State University, USA
Matt Ploszajski	Swansea University, UK
Gibin Powathil	Swansea University, UK
Hanchi Ren	Swansea University, UK
Sarah Ren	University of Sheffield, UK
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Sriram Sagi	Duke University, USA
Sara Sharifzadeh	Swansea University, UK
Nupur Thakur	Arizona State University, USA
Lehu Wen	Brunel University London, UK
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Xianghua Xie	Swansea University, UK
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Yue Yang	Swansea University, UK
Shengzhou Yi	University of Tokyo, Japan
Vincent Zakka	Aston University, UK
Jiaxiang Zhang	Swansea University, UK
Lu Zhang	Loughborough University, UK

Yilun Zhang  
Yixin Zhang  
Feng Zhao

Huiyu Zhou  
Massoud Zolgharni

Swansea University, UK  
Columbia University, USA  
University of Science and Technology of  
China, China  
Leicester University, UK  
University of West London, UK



# Programme: Monday 8th September

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08:30            Registration (until 17.00)

09:00-09:15   Welcome

09:15-10:00   Tutorial (part 1)  
Large Language Models  
*Meng Fang, University of Liverpool*

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10:00-10:15   Break (tea & coffee)  
*Poster Session One presenters to set up posters*

10:15-11:00   Tutorial (part 2)  
Large Language Models  
*Meng Fang, University of Liverpool*

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11:00-12:00   Poster Spotlight Presentations (Session 1)  
*chair: Daniele Cafolla, Swansea University*

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12:00-13:30   Lunch & Poster Session One  
P01            Feature extraction from medical records to increase  
the accuracy of intracranial aneurysm rupture  
likelihood  
*Julia Zakaszewska (Gdansk University of Technology);  
Patryk Jasik (Faculty of Applied Physics and Mathematics,  
GdańskTech, Poland); Justyna Fercho (Department of  
Emergency Medicine, MUG, UCC in Gdańsk, Poland);  
Piotr Fonferek (Faculty of Applied Physics and  
Mathematics, GdańskTech, Poland); Katarzyna  
Konieczna (Faculty of Applied Physics and Mathematics,  
GdańskTech, Poland); Hanna Lisowska (Faculty of*

*Applied Physics and Mathematics, GdańskTech, Poland); Jakub Sadowy (Faculty of Applied Physics and Mathematics, GdańskTech, Poland); Daria Binerowska (Faculty of Applied Physics and Mathematics, GdańskTech, Poland); Maciej Pestka (Faculty of Applied Physics and Mathematics, GdańskTech, Poland); Michalina Dudra (Students' Scientific Circle of Emergency Medicine, MUG, Poland); Weronika Jagiełło (Students' Scientific Circle of Emergency Medicine, MUG, Poland); Klaudia Kokot (Students' Scientific Circle of Emergency Medicine, MUG, Poland); Dariusz Szplit (Department of Innovation, Analytics, and MedTech Implementation, MUG, Poland); Jacek Szypenbejl (Department of Emergency Medicine, MUG, UCC in Gdańsk, Poland); Tomasz Szmuda (Neurosurgery Department, Swissmed Luxmed Hospital in Gdańsk, Poland); Mariusz Siemiński (Department of Emergency Medicine, MUG, UCC in Gdańsk, Poland)*

- P02 Automated Gross Tumor Volume Segmentation in Meningioma Using Squeeze and Excitation Residual U-Net for Enhanced Radiotherapy Planning  
*Boiumelo Ronald Matlatla (University of Johannesburg); Dustin van der Haar (University of Johannesburg); Hima Vadapalli (University of Johannesburg)*
- P03 Ensemble Models for Real-Time Fetal Monitoring Using Discrete Segmentation of Cardiotocography  
*Muhammad Faheem (University of East Anglia); Rudy Lapeer (University of East Anglia); Beatriz De La Iglesia (University of East Anglia); Dr Rahul Gore (5GoreConn); Dr Rowan Connell (5GoreConn); Wenjia Wang (University of East Anglia)*
- P04 Knowledge Distillation for Computationally Tractable Brain Tumour Segmentation in Sub-Saharan Africa  
*Gage Nott (University of Johannesburg); Hima Vadapalli (University of Johannesburg); Dustin Van der Haar*

- (University of Johannesburg)
- P05 MICA: A Multimodal Intelligent Cognitive Assessment Framework Integrating Generative AI and Social Robot for Early Cognitive Intervention  
*MOHAMED ADLAN AIT AMEUR (University of Strathclyde); Erfu Yang (University of Strathclyde); William McGeown (University of Strathclyde); Yin-Ping Zhang (University of Xi'an Jiaotong)*
- P06 Markers of Fibromyalgia: Classification and Subtyping Using Self-Reported Measures  
*Delnia Alipour (University of Glasgow); Olga Perepelkina (Intel); Simone Stumpf (University of Glasgow)*
- P07 AI-Driven Triage for External Eye Diseases: A Deep Learning and LLM Approach for Community Vision Care  
*Kaden Bunch (The Warren Alpert Medical School of Brown University); Zishuai Chou (The Warren Alpert Medical School of Brown University); Andrew Barton (The Warren Alpert Medical School of Brown University)*
- P08 Affective State and Pain Estimation through Facial Emotion Analysis  
*Christine Asaju (University of Johannesburg); Hima Vadapalli (University of Johannesburg)*
- P09 Concept Type Prompt Patterns for Automated Medical Reporting in Healthcare  
*Chayenne van de Graaf (Verticai); Tom Huibers (Verticai); Wishnu Prasetya (Utrecht University); Sjaak Brinkkemper (Utrecht University)*
- P10 AI Nurses Network: Building a clinical research network on artificial intelligence in nursing  
*Siobhan O'Connor (King's College London); Crina Grosan (King's College London); Rebecca Oakey (King's College London); Xiaoyang Li (King's College London); Mengying Zhang (King's College London); Emma Stanmore (University of Manchester); David Woodcock (Patient and*

- Public Involvement and Engagement (PPIE) represent); Suzanne Bench (Guy's and St Thomas' NHS Trust)*
- P11 Constrained optimisation algorithms for population pharmacokinetic model discovery  
*Sam Richardson (AstraZeneca); Andrzej Nowojewski (AstraZeneca); Marija Kekic (AstraZeneca); Itziar Irurzun-Arana (GSK); Damilola Olabode (AstraZeneca); Diansong Zhou (AstraZeneca); Oleg Stepanov (AstraZeneca); Weifeng Tang (AstraZeneca); Richard Dearden (AstraZeneca); Megan Gibbs (AstraZeneca)*
- P12 Adapting self-attention algorithms to chemogenomic spaces to predict antimicrobial resistance and accelerate antibiotic discovery  
*Diana Martynova (Zacodi Labs)*
- P13 Ethical and Privacy-Preserving AI for Predicting Cognitive Decline in the Elderly Through Long-Term Health Monitoring: A Survey  
*Mariya Frolova (University of Ottawa); Kalonji Kalala (University of Ottawa)*
- P14 Machine learning based prognosis prediction of intracerebral hemorrhage outcome and counterfactual analysis on treatment effectiveness of surgical intervention  
*Eunhye Yang (The University of Hong Kong); Kay-Cheong Teo (The University of Hong Kong); Gary Kui Kai Lau (The University of Hong Kong); Joshua Wing Kei Ho (The University of Hong Kong)*
- P15 Applying Machine Learning to Natural Product Chemical Space  
*David Ntim (Duke University); James Carter (Duke University); Amy Chung (Duke University); Daniel Reker (Duke University)*
- P16 The influence of dialogue flow on stress levels when booking healthcare appointments with AI  
*Milos Kravcik (DFKI); Elisabeth Reisch (Aaron.ai); Iwan*

- Lappo-Danilewski (Aaron.ai); David Buschhüter (DFKI GmbH); Patrick Jähnichen (Aaron.ai)*
- P17 Revealing Cancer Patients' Real-World Daily Life Concerns via Large Language Models  
*Jiyeon Han (Samsung Medical Center); Mangyeong Lee (Sungkyunkwan University); Juhee Cho (Sungkyunkwan University)*
- P18 AI-Based Enhancement of 4D Flow MRI for Hemodynamic Assessment in Bicuspid Aortic Valve  
*Houriehsadat Jamalidinan (University of Calgary); Julio Garcia (University of Calgary)*
- P19 Sandbagging in AI as Medical Devices: Patient Safety and Liability Risks  
*Eugenia Forte (United Lincolnshire Hospitals Trust)*
- P20 Surgical Scene Understanding using Context Prompting for Multimodal Large Language Models  
*Jamie Clements (University of Stirling); Hazrat Ali (University of Stirling)*
- P21 Exploring Advanced Deep Learning Models for Super Resolution of 3D Dental CBCT Volumes  
*Rahim Ullah (University of Glasgow); Hassan Abbas (University of Glasgow); Syed Waqar Nabi (University of Glasgow)*
- P22 Prompt-Guided Patch UNet-VAE with Adversarial Supervision for Adrenal Gland Segmentation in CT Medical Images  
*Hania Ghouse (King Fahd University of Petroleum and Minerals); Muzammil Behzad (King Fahd University of Petroleum and Minerals)*
- P23 Chimera: Optimizing Multi-Modal, Multi-Task GNN Architectures for Precision Neuroscience  
*Dirk Keller (University Medical Center Utrecht); Clara Pecci Terroba (University of Cambridge); Angelina Kancheva (University of Glasgow); Ivana Kancheva (Leiden University Medical Center); Marcella Montagnese*

*(University of Cambridge); Richard Bethlehem (University of Cambridge)*

- P24 Multi-Disease Deep Learning Framework for GWAS: Beyond Feature Selection Constraints  
*Iqra Farooq (University of Surrey); Sara Atito (University of Surrey); Ayse Demirkan (University of Surrey); Inga Prokopenko (University of Surrey); Muhammad Awais (University of Surrey)*

### Keynote

- 13:30-14:30 *chair: Timothy Rittman, Cambridge University*  
**Artificial Intelligence for Surgical Imaging**  
*Daniel Elson, Imperial College London*

- 14:30-15:30 **Best paper candidate session one**  
*chair: Timothy Rittman, Cambridge University*

- 14:30-14:45 Hybrid Depression Detection from Spontaneous Speech via RFE-Majority Voting and WavLM-Based Attention  
*Attas, Dalia (Umm Alqura University)*

- 14:45-15:00 Beyond Accuracy: Enhancing Parkinson's Diagnosis with Uncertainty Quantification of Machine Learning Models  
*Asif Azad (BUET); Md. Saiful Islam (University of Rochester); Ehsan Hoque (University of Rochester); M Saifur Rahman (BUET)*

- 15:00-15:15 CLAIM: Clinically-Guided LGE Augmentation for Realistic and Diverse Myocardial Scar Synthesis and Segmentation  
*Farheen Ramzan (University of Sheffield); Yusuf Kiberu (Nottingham University Hospitals NHS Trust); Nikesh Jathanna (Nottingham University Hospitals NHS Trust);*

	<i>Shahnaz Jamil-Copley (University of Nottingham); Richard Clayton (University of Sheffield); Chen Chen (University of Sheffield)</i>
15:15-15:30	High-Confidence Labelling of Pathology Reports using LLM-Based Unanimous Ensembles with Limited Data <i>Thomas Greatrix (Cardiff University); Frank Langbein (Cardiff University); Roger Whitaker (Cardiff University); Liam Turner (Cardiff University); Gualtiero Colombo (Cardiff University)</i>
15:30-16:00	Break (tea & coffee)
16:00-17:00	<b>Best paper candidate session two</b> <i>chair: Hao Ni, University College London</i>
16:00-16:15	Safeguarding Privacy for Medical Data with a Novel Key-Lock Module in Federated Learning <i>Hanchi Ren (Swansea University); Jingjing Deng (Durham University); Xianghua Xie (Swansea University); Xiaoke Ma (Xidian University); Jianfeng Ma (Xidian University)</i>
16:15-16:30	Evaluating Personalised Beneficial Interventions in the Daily Lives of Older Adults Using a Camera <i>Longfei Chen (University of Edinburgh); Christopher Lochhead (University of Edinburgh); Robert B. Fisher (University of Edinburgh); Nusa Faric (University of Edinburgh); Jacques Fleuriot (University of Edinburgh); Subramanian Ramamoorthy (University of Edinburgh)</i>
16:30-16:45	Spatiotemporal Contrastive Learning for Echocardiography View Classification <i>Preshen Naidoo (University of West London); Patricia Fernandes (University of West London); Isreal Ufumaka (University of West London); Nasim Dadashi Serej (University of West London); James Howard (Imperial</i>

*College London); Darrel Francis (Imperial College London); Charlotte Manisty (University College London); Massoud Zolgharni (University of West London)*

16:45-17:00 Detection of multiple cardiac disorders based on heartbeat morphology and time segment analysis of ECG signals

*Subrata Sarkar (Jadavpur University); Debjit Dhar (Jadavpur University); Rajib Sarkar (Derozio Memorial College); Sanjoy Kumar Saha (Jadavpur University); Tapabrata Chakraborti (The Alan Turing Institute, University College London)*

# Programme: Tuesday 9th September

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08:30 Registration (until 17.00)

## Keynote

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*chair: Daniele Cafolla, Swansea University*

09:00-10:00 **All that glitters is not gold - The unintended harm of artificial intelligence in healthcare**

*Kerstin Denecke, Bern University of Applied Sciences, Switzerland*

10:00-10:20 **Ethics of AI in healthcare**

*chair: Hazrat Ali, University of Stirling*

10:00-10:10 Empirical Study of Social Bias in Medical Question Answering via Large Language Models

*Xiao Xiao (University of Liverpool); Jiaxu Zhao (Eindhoven University of Technology); Terry Payne (University of Liverpool); Meng Fang (University of Liverpool)*

10:10-10:20 Prompt Injection is All You Need: A Framework for Evaluating Healthcare Misinformation in LLMs

*Zad Chin (Harvard University)*

## Multimodal generative AI

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*chair: Hazrat Ali, University of Stirling*

10:20-10:30 DiabEye-Q: AI-driven Longitudinal Analysis of Ophthalmoscopic Images for Early Diabetes Prediction in Qatari Adults

*Sulaiman Khan (Hamad Bin Khalifa University); Md. Rafiul Biswas (Hamad Bin Khalifa University); Zubair Shah (Hamad Bin Khalifa University)*

10:30-11:00 **Break (tea & coffee)**

*Poster Session Two presenters to set up posters*

11:00-12:00	<b>Poster Spotlight Presentations (Session 2)</b> <i>chair: Daniele Cafolla, Swansea University</i>
12:00-13:30	<b>Lunch &amp; Poster Session Two</b>
P01	Exploring applicability of Text-to-Image models for generating aphasia rehabilitation material <i>Mihir Mulye (Heinrich Heine University); Stefan Conrad (Institute for Computer Science, Heinrich Heine University, Düsseldorf, Germany); Stefan Knecht (Institute for Clinical Neuroscience and Medical Psychology, Heinrich Heine University, Düsseldorf, Germany)</i>
P02	Physicochemical-Based Deep Learning for Allergenicity Prediction <i>Charalambos Chrysostomou (The Cyprus Institute)</i>
P03	GNN's Uncertainty Quantification using Self-Distillation <i>Hirad Daneshvar (Toronto Metropolitan University); Reza Samavi (Toronto Metropolitan University)</i>
P04	A Bayesian Framework for Multi-Layered Gene Regulation: Integrating Expression Data with Curated Knowledge <i>Aitor Oviedo-Madrid (Universidad de Navarra); José González-Gomariz (Universidad de Navarra); Rubén Armañanzas (Universidad de Navarra)</i>
P05	Leveraging Pretrained Language Models for Maternal Health Monitoring in Online Communities <i>Zhen Zhu (University of Kent)</i>
P06	Investigating the Applicability of Gait-based Health Assessment in a Domestic Environment <i>Chris Lochhead (University of Edinburgh); Robert Fisher (University of Edinburgh); Longfei Chen (University of Edinburgh); Rhona Lochhead</i>
P07	Unmasking the Algorithm: Bridging Innovation and Ethics in AI-Enabled Psychological Care <i>Chen Hascalovitz (University of Ottawa); Raywat Deonandan (University of Ottawa)</i>

- P08 Development of an Adaptive Foot Prosthesis with an Elastic Element and Shock-Absorbing Sole Without the Use of Electric Actuators  
*Nursultan Zhetenbayev (Almaty University of Power Engineering and Telecommunications named Gumarbek Daukeyev); Sayat Akhmejanov (Satbayev University); Aidos Sultan (Almaty University of Power Engineering and Telecommunications); Yerkebulan Nurgizat (Almaty University of Power Engineering and Telecommunications); Gani Sergazin (University of Illinois at Urbana-Champaign); Kassymbek Ozhikenov (Satbayev University); Arman Uzbekbayev (Satbayev University); Abu-Alim Ayazbay (Almaty University of Power Engineering and Telecommunications)*
- P09 A Systematic Review of Machine Learning for Public Health Therapeutic Interventions Among Diabetic Patients in Europe  
*Christopher Ufene (York St John University); Osamwonyi Osaro (York St John University); Shaiyini Ravindran (University of Greenwich)*
- P10 Coding Care: Care Ethics and Technical Practices in AI Mental Health Applications  
*Meiting Wang (University of Auckland)*
- P11 SARHachat: An LLM-Based Chatbot for Sexual and Reproductive Health Counseling  
*Jiaye Yang (University of North Carolina at Chapel Hill); Xinyu Zhao (University of North Carolina at Chapel Hill); Tianlong Chen (University of North Carolina at Chapel Hill); Kandyce Brennan (University of North Carolina at Chapel Hill)*
- P12 Conferences as a Tool for Increasing Medical AI Literacy: A Before and After Study  
*Abdel Rahman Osman (NHS); Nafisa Islam (NHS); Laveinia Godfrey (NHS)*

- P13 A Study on the Need for AI-Assisted Areas in Large-Scale Cohort Data Management: Using the Korean Brain Disease Integrated Cohort  
*Sujung Oh (Sungkyunkwan University); Junwoo Seo (Sungkyunkwan University); Hwamin Woo (Sungkyunkwan University); Eunjee Kang (Samsung Medical Center); Danbee Kang (Sungkyunkwan University)*
- P14 Towards Evaluating Capabilities of Vision Language Models in Ophthalmology  
*Rishi Ramessur (University of Edinburgh); Peter Thomas (Moorfields Eye Hospital); Sotirios Tsaftaris (University of Edinburgh); Steven McDonagh (University of Edinburgh)*
- P15 Artificial Intelligence for Smartphone Imaging of the External Eye: A Scoping Review  
*Negin Sanadgol (University College London); Mertcan Sevgi (Peek Vision); Abdullah Khan (University College Dublin); Ariel Ong (Univesrity College London); Iris Gordon (London School of Hygiene & Tropical Medicine); Jennifer Evans (London School of Hygiene & Tropical Medicine); Nigel Bolster (Peek Vision); Andrew Bastawrous (Peek Vision)*
- P16 Speech Breathing Under Cognitive Load: A Pilot Study of English and Arabic Bilingual Adaptation Using the Helicopter Task  
*Hajar Chadli (Department of Psychology, University of South Wales); Biao Zeng (Department of Psychology, University of South Wales); Xiaoyu Zhou (Department of Respiratory and Critical Care Medicine, The Frist Affiliated Hospital of Bengbu Medical University)*
- P17 Frontline Clinical Diagnosis - FTIR on Pancreatic Cancer  
*Deb Roy (Swansea University)*
- P18 Integrating Artificial Intelligence to Enhance Clinical Documentation, Real-Time Auditing, and Decision-

- Making in a Tertiary Care Hospital: A Comparative Audit Study  
*Asfia Akhtar (Bon Secours Hospital); Faizan Hameed (Bon Secours Hospital)*
- P19 DECODE: Delirium Detection from Continuous Digital Behaviour in Dementia  
Cong Mou (University of Nottingham); Mian Wu (University of Nottingham); Shreyank N Gowda (University of Nottingham); *Beili Shao (University of Nottingham)*
- P20 Predicting ALSFRS-R thin-plate spline derived Progression Clusters using Initial Assessment Data  
*Tamara Matthews (Technological University Dublin); Dymrna O'Sullivan (Technological University Dublin); Robert Ross (Technological University Dublin)*
- P21 Rapid On-Site Evaluation of Endoscopic Pulmonary Biopsies with Artificial Intelligence  
*Cristiano Casciani (University of Rome Tor Vergata); Daniele Cafolla (Swansea University ); Matteo Russo (University of Rome Tor Vergata); Vincenzo Ambrogi (University of Rome Tor Vergata); Federico Tacconi (University of Rome Tor Vergata); Andrea Tornese (San Camillo Forlanini Hospital); Maria Cristina Macciomei (San Camillo Forlanini Hospital); Sofia Romani (San Camillo Forlanini Hospital); Gabriele Lucantoni (San Camillo Forlanini Hospital); Sandro Batzella (San Camillo Forlanini Hospital)*
- P22 Detecting muscle activation in surface electromyography  
*Niloofar Beyki (University of Rome Tor Vergata); Luca Molinaro (Sensor Medica srl); Matteo Russo (University of Rome Tor Vergata)*
- P23 Body-Oriented Gesture Generation System for Medical Interpreter Robots Based on Reinforcement Learning from Human Feedback

*Tung Ngo (Technological University Dublin); Emma Murphy (Technological University Dublin); Conor McGinn (Trinity College Dublin); Robert Ross (Technological University Dublin)*

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| 13:30-14:15 | <b>Plenary Panel Keynote</b><br><hr/> <i>chair: Timothy Rittman, University of Cambridge</i><br><b>Mindful Mortality: Responsible AI for the Dying Process</b><br><i>Elvira Perez Vallejos, University of Nottingham &amp; RAI UK</i>  |
| 14:15-15:00 | <b>Panel Discussion</b><br><i>Chair: Elvira Perez Vallejos, University of Nottingham &amp; RAI UK</i>  |
| 15:00-15:30 | <b>Break (tea &amp; coffee)</b>  |
| 15:30-15:50 | <b>AI driven early diagnosis and prevention</b><br><hr/> <i>chair: Stephen Smith, University of York</i>   |
| 15:30-15:40 | <b>Transfer Learning-Based Classification of Diabetic Retinopathy Using a Pre-trained InceptionResNet Model</b><br><i>Ahmad Hasasneh (AAUP); Suhad Malayshi (AAUP)</i>   |
| 15:40-15:50 | <b>Early objective ASD screening system based on eye tracking and machine learning</b><br><i>Sara Vecino (University of Oviedo); Gloria Acevedo-Diaz (ADANSI); Daniel Fernandez-Lanvin (University of Oviedo); Javier De Andres (University of Oviedo); Martin Gonzalez-Rodriguez (University of Oviedo)</i> |
| 15:50-16:30 | <b>AI driven proactive care and predictive intervention</b><br><hr/> <i>chair: Stephen Smith, University of York</i>   |
| 15:50-16:00 | <b>Performance comparison of machine learning models for the prediction of dialysis treatment variables</b>  |

*Alessia Nicosia (Università degli Studi di Palermo);  
 Nunzio Cancilla (Università degli Studi di Palermo);  
 Eleonora Di Liberti (Università degli Studi di Palermo);  
 José David Martín Guerrero (Universitat de València);  
 Yolanda Vives Gilabert (Universitat de València); Angelo  
 Ferrantelli (A.R.N.A.S. “Civico Di Cristina e Benfratelli”);  
 Francesco Iacono (A.R.N.A.S. “Civico Di Cristina e  
 Benfratelli”); Valerio Maria Bartolo Brucato (Università  
 degli Studi di Palermo); Vincenzo La Carrubba  
 (Università degli Studi di Palermo); Ilenia Tinnirello  
 (Università degli Studi di Palermo); Andrea Cipollina  
 (Università degli Studi di Palermo)*

16:00-16:10 Dynamic and explainable mortality risk prediction for TBI patients in the ICU

*Hasitha Kuruwita A. (Griffith University); Shu Kay Ng (Griffith University); Alan Wee-Chung Liew (Griffith University); Kelvin Ross (Datarwe); Brent Richards (IntelliHQ); Kuldeep Kumar (Bond University); Luke Haseler (Curtin University); Ping Zhang (Griffith University)*

16:10-16:20 Opportunistic Screening of Osteoporosis from Dental Panoramic Radiographs using Deep Learning

*Divya Biligere Shivanna (MS Ramaiah University of Applied Sciences); Roopa S Rao (M.S.Ramaiah University of Applied Sciences); Tushar Patil (M.S.Ramaiah University of Applied Sciences); Lichingngamba Tensubam (M.S.Ramaiah University of Applied Sciences); Sowmya Gujjar Vishnu Rao (Institute Of Dental Sciences); Ashok Lingappa (Bapuji Dental College and Hospital)*

16:20-16:30 Adaptive Biofeedback for Digital Physiotherapy Using Sakoe-Chiba Constrained Pose Matching

*Jonas Mueller (Friedrich Alexander University); Alexander Weiss (Friedrich Alexander University); Bjoern Eskofier (Friedrich Alexander University)*

- 16:30-16:50    **Predictive Analytics in Healthcare**  


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*chair: Stephen Smith, University of York*
- 16:30-16:40    Translating Genes into Insight: Causal Genomics for Diabetes Risk Prediction  
*Sheresh Zahoor (Munster Technological University); Pietro Liò (University of Cambridge); Gaël Dias (Normandie Univ, Université Caen Normandie, ENSICAEN, CNRS, GREYC); Mohammed Hasanuzzaman (Queen's University Belfast)*
- 16:40-16:50    A machine learning-based surrogate model of a hemodialyzer for the prediction of the urea dialyzer clearance  
*Angelo Giordano (Università degli Studi di Palermo); Nunzio Cancilla (Università degli Studi di Palermo); José Martín-Guerrero (Universitat de València); Yolanda Gilabert (Universitat de València); Michele Ciofalo (Università degli Studi di Palermo); Giorgio Micale (Università degli Studi di Palermo); Alessandro Tamburini (Università degli Studi di Palermo)*
- 16:50-17:00    **Machine and deep learning approaches for health data**  


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*chair: Stephen Smith, University of York*  
A Comparison of Potentials and Limitations of Transformer Models for Aspect-based Medical Sentiment Analysis  
*Yihan Deng (Bern University of Applied Sciences); Kerstin Denecke (Bern University of Applied Sciences)*
- 19:00-21:30    **Conference Dinner (Gonville & Caius Hall)**

# Programme: Wednesday 10th September

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08:30 Registration (until 12.00)

## Keynote

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*chair: Hao Ni, University College London*

09:00-10:00 **Advancements in Pharmacovigilance with Large Language Models**

*Yulan He, Kings College London*

## Healthcare workflow optimisation and automation

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*chair: Hao Ni, University College London*

10:00-10:10 Evaluating the feasibility of using smaller Large Language Models for generating impressions from findings in radiology reports

*Margarita Deli-Slavova (Swansea University); Julian Hough (Swansea University)*

10:10-10:30 **Maternity and women's health and wellbeing**

*chair: Hao Ni, University College London*

10:10-10:20 Patient-Centred Explainability in IVF Outcome prediction

*Adarsa Sivaprasad (University of Aberdeen); Ehud Reiter (University of Aberdeen); David McLernon (University of Aberdeen); Nava Tintarev (Maastricht University); Siladitya Bhattacharya (University of Aberdeen); Nir Oren (University of Aberdeen)*

10:20-10:30 From Clinic to Code: Using Clinician Insights to Develop a Framework for Fair and Representative Datasets in Women's Health AI

*Andrea Heaney (TU Dublin); Emma Murphy (TU Dublin); Eugene Hickey (TU Dublin)*

10:30-11:00	<b>Break (tea &amp; coffee)</b> <i>Poster Session Three presenters to set up posters</i>
11:00-12:00	<b>Poster Spotlight Presentations (Session 3)</b> <i>chair: Daniele Cafolla, Swansea University</i> <hr/>
12:00-13:30	<b>Lunch &amp; Poster Session Three</b> <hr/>
P01	Robustness of Human vs. AI Measurements Under Progressive Image Degradation <i>Jevgeni Jevsikov (Imperial College London); Catherine C Stowell (Imperial College London); Tiffany Ng (Imperial College London); Beth Unsworth (Royal Devon and Exeter NHS Foundation Trust); Massoud Zolgharni (Imperial College London); Darrel P Francis (Imperial College London); Charlotte H Manisty (University College London); Matthew J Shun-Shin (Imperial College London)</i>
P02	A Clinician-Centred Interface for AI-Powered Echocardiographic Image Quality Feedback <i>Sara Adibzadeh (University of West London); Patricia Fernandes (University of West London); Mayur Agrawal (University of West London); Ali Gheitasy (University of West London); Nasim Dadashiserej (University of West London); Massoud Zolgharni (University of West London)</i>
P03	Domain-Aligned OCT Pre-training: Enhancing Retinal Disease Diagnosis Through Cross-Anatomy Vision Transformers <i>Zihao Han (University of Kent); Philippe De Wilde (University of kent); Marco Santopietro (University of Kent)</i>
P04	Skin Lesion Hybrid Classification and Segmentation based on Extracted Deep Features <i>Aakaou Aboubakr (University of Malaga); Karl Thurnhofer-Hemsi (University of Malaga); Enrique</i>

- P05 *Dominguez (University of Malaga)*  
Enhancing Cardiac Cell Networks Segmentation via Hybrid Supervised and Zero-Shot Strategies  
*Sarah Costa (Swansea University); Hassan Eshkiki (Swansea University); Fabio Caraffini (Swansea University); Christopher H. George (Swansea University)*
- P06 Robust Windowing Harmonisation for Improved Cross-Scanner Generalisation of White Matter Hypoattenuation Segmentation in Brain CT Clinical Scans  
*Nada Alamoudi (University of Edinburgh); Maria Valdes Hernandez (University of Edinburgh); Sohan Seth (University of Edinburgh); Joanna Wardlaw (University of Edinburgh); Miguel Bernabeu Llinares (University of Edinburgh)*
- P07 Vision Transformers for Interpreting ECG Diagrams  
*Jarod Hartley (Swansea University); Jennifer Edwards (Swansea University); Ehinafa Akinola (Swansea University); W. Joseph MacInnes (Swansea University)*
- P08 Categorizing acquisition intervals from whole-brain MEG functional connectivity  
*Vasiles Balabanis (Swansea University); Jiaxiang Zhang (Swansea University); Xianghua Xie (Swansea University); Su Yang (Swansea University)*
- P09 GPT-Based Pipeline for Structuring 193k Stroke Discharge Reports  
*Temirgali Aimyshev (Nazarbayev University); Iliyar Arupzhanov (Nazarbayev University); Abduzhappar Gaipov (Nazarbayev University)*
- P10 Interoperability of standardised electronic healthcare records facilitates transfer learning  
*Elizabeth Remfry (Queen Mary University of London); Rafael Henkin (Queen Mary University of London)*
- P11 Adversarial Registration Method for Non-Rigid Brain MRI and DVF Estimation

*Eashrat Jahan Muniya (Austrian Center for Medical Innovation and Technology); Gernot Kronreif (Austrian Center for Medical Innovation and Technology); Ander Biguri (University of Cambridge); Wolfgang Birkfellner (Medical University of Vienna); Sepideh Hatamikia (Danube Private University)*

- P12 Fine-Tuning Open-Source LLMs on Multi-Turn CBT Conversations  
*Rishabh Balse (University of Cambridge); Sam Nallaperuma-Herzberg (University of Cambridge); Pietro Liò (University of Cambridge)*
- P13 Deep Learning-Based Classification and Segmentation of Diabetic Foot Sole Images as a First Step Towards Pre-ulcerative Lesion Detection  
*Germán Comina (Universidad Nacional de Ingenieria); Marlon Bustos (Universidad Nacional de Ingenieria); Lucas Taipe (Universidad Nacional de Ingenieria); Sergio Sosa (Universidad Nacional de Ingenieria); Margarita Segovia (Universidad Nacional de Ingenieria); Maria Lazo-Porras (Universidad Peruana Cayetano Heredia); J. Jaime Miranda (University of Sydney)*
- P14 Deep Learning Based Histological Classification of Inflammatory Bowel Disease Samples Derived From Non-Linear Multimodal Imaging  
*Jawad Kamran (Leibniz IPHT); Thomas Bocklitz (FSU Jena/Leibniz-IPHT)*
- P15 Towards an Empathetic and Meta-Cognitive Digital Therapy Framework  
*Rishabh Balse (University of Cambridge); Sam Nallaperuma-Herzberg (University of Cambridge); Sonia Koszut (University of Cambridge); Pietro Liò (University of Cambridge); Anna Bevan (University of Cambridge); Tristan Bekinschtein (University of Cambridge)*
- P16 Agentic Reasoning in Vision-Language Models for Rare Brain MRI Analysis: A Multi-Turn Tool-Augmented

## Approach

*Duaa Alim (Imperial College London); Lina Alim (Hillingdon Hospitals NHS Foundation Trust); Liam Chalcroft (University College London)*

- P17 A Pilot Study of a Custom GPT for the 2024 RCOphth Curriculum  
*William Purcell (Yorkshire and Humber School of Ophthalmology); Vikas Chadha (Yorkshire and Humber School of Ophthalmology); Devina Gogi (Yorkshire and Humber School of Ophthalmology); Vernon Long (Yorkshire and Humber School of Ophthalmology); Aabgina Shafi (Yorkshire and Humber School of Ophthalmology); Yashin Ramkissoon (Yorkshire and Humber School of Ophthalmology)*
- P18 Health Practitioner Credential Fraud: An Emerging Research Opportunity and Critical Challenge  
*Lauren Herckis (TruMerit Inc.); Emily Tse (TruMerit Inc.)*
- P19 Exploring Hidden Patterns: A Priori Class Labels in Contrastive Learning for Phenotype Discovery  
*Annina Helmy (University of Bern); Rafael Morand (University of Bern); Markus Schmidt (University of Bern); Claudio L. A. Bassetti (University of Bern); Stavroula Mougiakakou (University of Bern); Athina Tzovara (University of Bern)*
- P20 Does a SARS-CoV-2 Infection Increase the Risk of Dementia? Causal Machine Learning for Predictive Risk Models on Real-World Patient Data  
*Jannis Guski (Fraunhofer SCAI); Holger Fröhlich (Fraunhofer SCAI)*
- P21 Deep Learning Multi-State Models for Individualized Risk Prediction in Multiple Myeloma  
*Sebastian Schwick (Fraunhofer SCAI); Shammi More (Fraunhofer SCAI); Holger Fröhlich (Fraunhofer SCAI)*
- P22 Machine learning for automated detection of senescent adipose tissue-derived stem cells

*Rana Judeh (University of Sydney); Teng-Hui Huang (University of Sydney); Hesham El Gamal (University of Sydney); Zufu Lu (University of Sydney); Hala Zreiqat (University of Sydney)*

P23      An Evaluation of Time Series Foundation Models' on Short Horizon Forecasting With Limited Data  
*Matt Ploszajski (Swansea University); Gary Tam (Swansea University); Xianghua Xie (Swansea University)*

13:30-14:20      Machine and deep learning approaches for health data (cont.)

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*chair: Chen Chen, University of Sheffield*

13:30-13:40      Intelligent Blood Product Management in Hospital: A Data-Driven Model for Optimizing Platelet Inventory  
*Yuan Zhu (Institute of Medical Statistics, Computer and Data Sciences (IMSID)); Cord Spreckelsen (Institute of Medical Statistics, Computer and Data Sciences (IMSID)); Maximilian Schilling (Department of Neurosurgery, University Medicine Greifswald, Greifswald); Sasanka Potluri (Institute of Medical Statistics, Computer and Data Sciences (IMSID))*

13:40-13:50      Multi-Modal Deep Learning with Spatial Transformers for Biparametric MRI Prostate Cancer Classification  
*Charalambos Chrysostomou (The Cyprus Institute); Constantine Dovrolis (The Cyprus Institute)*

13:50-14:00      BCONDS: Borderline Counterfactual Oversampling with Noise elimination and Density Scoring  
*Asifa Qureshi (Dundalk institute of technology); Abhishek Kaushik (Dundalk Institute of Technology); Roisin Loughran (Dundalk Institute of Technology); Fergal McCaffery (Dundalk Institute of Technology)*

14:00-14:10      Decoding the Stressed Brain with Geometric Machine Learning  
*Sonia Koszut (University of Cambridge); Sam*

*Nallaperuma-Herzberg (University of Cambridge); Pietro Lio (University of Cambridge)*

14:10-14:20 Integrating Rule-Based eGFR Labels with Expert GP Annotations: A Multi-Method Framework for CKD Classification

*Ali Guran (Swansea University); Avishek Siris (Swansea University); Gary K.L. Tam (Swansea University); James Chess (Wales Kidney Research Unit and Morriston Hospital); Xianghua Xie (Swansea University)*

### Assistive living technology

*chair: Massoud Zolgharni, University of West London*

14:20-14:30 Enhanced Sparse Point Cloud Data Processing for Privacy-aware Human Action Recognition

*Maimunatu Ahmad Tunau (Aston University); Vincent Zakka (Aston University); Zhuangzhuang Dai (Aston University)*

14:30-14:50 Intelligent systems and robotics

*chair: Massoud Zolgharni, University of West London*

14:30-14:40 Human-centred Design of AI-Driven Robots for Healthcare in a Global Context: a Case Study of AIREC (AI-driven Robot for Embrace and Care)

*Toshie Takahashi (Waseda University)*

14:40-14:50 A protocol for analysing ankle motion data: a standardized approach to kinematic assessment  
*Giovanni Mastrangelo (University of Rome Tor Vergata)*

### AI in echocardiography

*chair: Massoud Zolgharni, University of West London*

14:50-15:00 Deep Learning for Assessing Rotational Misalignment in Echocardiographic Imaging

*Patricia Fernandes (University of West London); Preshen Naidoo (University of West London); Isreal Ufumaka (University of West London); Sara Adibzadeh (University*

*of West London); Eman Alajrami (University of West London); Jevgeni Jevsikov (Imperial College London); Nasim Dadashiserej (University of West London); James Howard (Imperial College London); Matthew Shun-Shin (Imperial College London); Darrel Francis (Imperial College London); Massoud Zolgharni (University of West London)*

15:00-15:30    **Break (tea & coffee)**

### **AI in mental health**

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*chair: Daniele Cafolla, Swansea University*

15:30-15:40    **Breathalyzer as a Remote Monitoring and Support System for AUD: Early Findings on Dropout and Relapse Prediction Using Machine Learning**  
*Valentina Navarro-Ovando (Amsterdam UMC); Jop Rijksbaron (Amsterdam UMC); Glenn Dumont (Amsterdam UMC); Cristian Rodriguez Rivero (Polytechnic University of Catalonia)*

15:40-16:00    **Medical image analysis and processing**

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*chair: Daniele Cafolla, Swansea University*

15:40-15:50    **Graph Convolutional Neural Networks to Model the Brain for Insomnia**  
*Kevin Monteiro (University of Cambridge); Sam Nallaperuma-Herzberg (University of Cambridge); Martina Mason (Royal Papworth Hospital); Steven Niederer (Alan Turing Institute)*

15:50-16:00    **Classification-to-Segmentation: Class Activation Mapping for Zero-Shot Skin Lesion Segmentation**  
*Matthew Cockayne (Keele University); Marco Ortolani (Keele University); Baidaa Al-Bander (Keele University)*

16:00-16:20    **Best Poster Prize & Closing remarks**

# Tutorial:

## Large Language Models

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Dr. Meng Fang is an Assistant Professor in AI at University of Liverpool. He is also a visiting (assistant) professor at Eindhoven University of Technology (TU/e). Meng co-leads the UTS NLP Group. He had been a research scientist / intern at Tencent Robotics X / AI, CSIRO and Microsoft Research Asia before.

Meng's research focuses on technologies for autonomous agents capable of human-like language understanding, reasoning, and decision-making. Currently, my interests are in trustworthy agents and agent applications. His main areas include NLP and RL.

## **Keynote:**

# **All that glitters is not gold - The unintended harm of artificial intelligence in healthcare**

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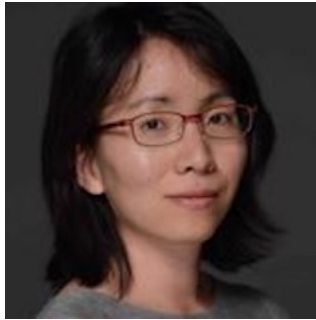


Kerstin Denecke (Bern University of Applied Sciences, Bern, Switzerland) received the Doctoral degree in computer sciences from the Technical University of Braunschweig, Germany. Since 2015 is full professor of medical informatics at the Bern University of Applied Sciences. Her research interests include medical language processing, artificial intelligence, conversational agents and participatory health informatics and sentiment analysis. Currently, she is leading projects related to sentiment analysis from clinical documents, information extraction from radiology reports and automatic validation of LLM-generated text.

# **Keynote:**

## **Advancements in Pharmacovigilance with Large Language Models**

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Yulan He is a Professor in Natural Language Processing at the Department of Informatics in King's College London, UK. She directs the NLP group there (<https://kclnlp.github.io>). Yulan obtained her PhD degree from the University of Cambridge. She is currently holding a prestigious 5-year UKRI Turing AI Fellowship. Yulan's research interests lie in the integration of machine learning and natural language processing for text understanding. Recently, she has focused on addressing the limitations of Large Language Models (LLMs), aiming to enhance their reasoning capabilities, robustness, and explainability. She has published over 250 papers on topics such as machine reading comprehension, model interpretability and trustworthy AI, NLP for health, finance and education. She has received several prizes and awards for her research, including a SWSA Ten-Year Award, a CIKM Test-of-Time Award, and AI 2020 Most Influential Scholar Honourable Mention. She served as the General Chair for ACL-IJCNLP 2022 and a Program Co-Chair for various conferences such as ECIR 2024, CCL 2024, and EMNLP 2020. Her research has received support from the EPSRC, Royal Academy of Engineering, EU-H2020, Innovate UK, British Council, and industrial funding.

# Keynote:

## AI for Surgical Imaging

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Daniel Elson is a Professor of Surgical Imaging and Biophotonics in the Hamlyn Centre for Robotic Surgery, Institute of Global Health Innovation and Department of Surgery and Cancer at St. Mary's Hospital. Research interests are based around the development and application of photonics technology to medical imaging, including multispectral imaging, near infrared fluorescence, structured lighting, light sources in endoscopy and diffuse and fluorescence spectroscopy.

# **Keynote:**

## **Mindful Mortality: Responsible AI for the Dying Process**

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Professor Elvira Perez Vallejos is Professor of Digital Technology for Mental Health and Digital Technologies at Nottingham Biomedical Research Centre Mental Health and Technology theme (Division of Psychiatry and Applied Psychology, Faculty of Medicine). She is interested on the ethical challenges embedded in digital solutions for mental health including the widespread of machine learning/AI methods on the development of new mental health interventions. She has experience on RRI (Responsible Research and Innovation) and Data Ethics as well as on Data Privacy, Online Consent, User-centric design, Creative Practices for Mutual Recovery, Experimental Psychology, Participatory research, Children and Young People, and Older Adults.

# Venue Information

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AliH 2025 will be hosted in the Jesus College, University of Cambridge. Jesus College is situated on Jesus Lane, a quiet side street in the centre of Cambridge. Jesus College was first founded in 1496 by John Alcock, and the College's full

name is "The College of the Blessed Virgin Mary, Saint John the Evangelist and the glorious Virgin Saint Radegund, near Cambridge". The common name, Jesus College, comes from the College's chapel, Jesus Chapel. Founded in the early 11th century, the chapel is the oldest Cambridge University building still in use.



Jesus College is well known for its beautiful grounds. The College also has an impressive permanent collection, including works by John Bellany, Stephen Chambers, Barry Flanagan, John Gibbons, Antony Gormley, Albert Irvin, Richard Long,

David Mach, Sarah Morris, Humphrey Ocean, Eduardo Paolozzi, Cornelia Parker, and Alison Wilding. First Court contains the famous Jesus Horse.

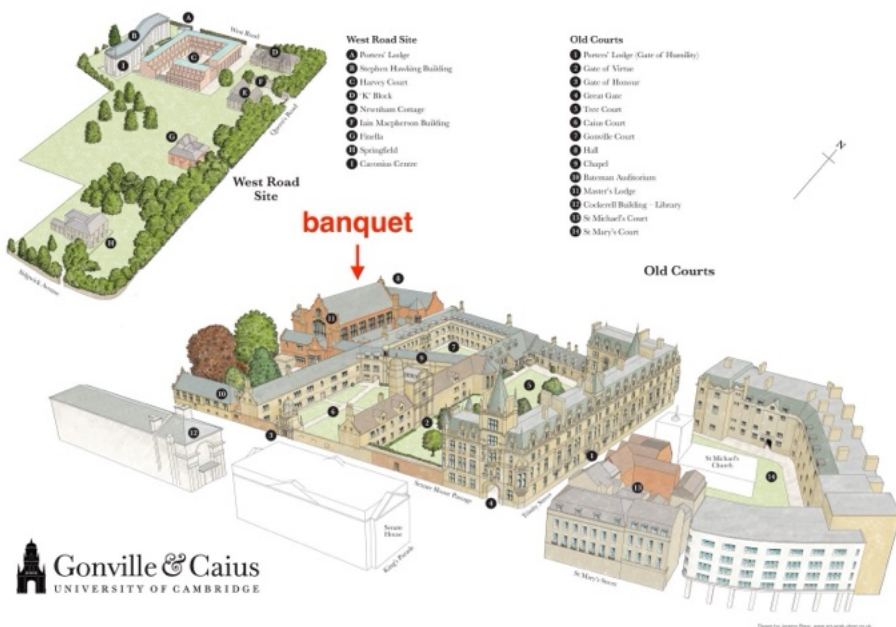


The oral sessions of the conference will take place in the Elena Hall, which is part of a contemporary warehouse conversion, with natural light, high ceilings and white walls hung with artwork. The poster session will be hosted in the adjacent Sibilla Room. The Elena Hall is a spacious and versatile ground floor hall connected to West Court, with huge picture windows offering views of the orchard. The location of the Elena Hall can be found in the College Map below.



# Banquet

The conference banquet is on Thursday the 9th of September and it will taken place in the Old Courts Hall of the Gonville & Caius College. Caius is the fourth oldest College in the University of Cambridge. The College was first founded as Gonville Hall by Edmund Gonville, Rector of Terrington St Clement in Norfolk, in 1348, and refounded in 1557 by John Caius as Gonville and Caius College. The heart of Caius is right in the very centre of the city. The College is one of the largest Colleges in Cambridge. It has produced fifteen Nobel Prize winners (more than any Oxbridge College bar Trinity College, Cambridge).









## **GOLD**

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## **BEST PAPER AWARD**

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