

EIT 2026 Conference Program

Time start	Time end	Monday 06/07	Tuesday 07/08	Wednesday 08/07
08:00	- 08:30			
08:30	- 09:00			
09:00	- 09:30		Instrumentation & Hardware	Keynote II (Merja Kallio)
09:30	- 10:00			Coffee
10:00	- 10:30		Coffee	Other (non-lung) clinical applications
10:30	- 11:00		Lungs & Ventilation 2	
11:00	- 11:30		Sciospec	
11:30	- 12:00			
12:00	- 12:30	Registration		
12:30	- 13:00	Lunch	Lunch	Lunch
13:00	- 13:30			
13:30	- 14:00	Opening & Welcome	Keynote I (Brian Brown & David Barber)	Experimental Methods and Validation
14:00	- 14:30	Lungs & Ventilation 1	Conference picture	
14:30	- 15:00			
15:00	- 15:30		Lungs & Ventilation 3	Conference summary & farewell
15:30	- 16:00	Coffee		
16:00	- 16:30	Regularisation, Optimisation and Machine Learning Methods	Coffee	
16:30	- 17:00			
17:00	- 17:30		Image & Reconstruction	
17:30	- 18:00	Posters (1-minute presentations)		
18:00	- 18:30	Poster session		
18:30	- 19:00	Poster session		
19:00	- 19:30	EIT Committee meeting		
19:30	- 20:00		Dinner	
20:00	- 20:30			
20:30	- 21:00			



Lungs & Ventilation 1

ID	Title	Presenting Author	Day	Time	Session
3	Aerosol Deposition in Bronchiectasis: Regional Airway Obstruction is the Key	Zhanqi Zhao	Monday	14:00	Lungs & Ventilation 1
6	EIT-Derived Ventilatory Burden in Obstructive Sleep Apnoea	Tingting Zhang	Monday	14:15	Lungs & Ventilation 1
20	Pulmonary perfusion assessment without breath-hold using pixel-wise linear regression in electrical impedance tomography	Ágape da Fonseca	Monday	14:30	Lungs & Ventilation 1
26	Correlation of EIT-Derived Regional Ventilation Parameters with Global Pulmonary Function in Post-Acute SARS-CoV-2 Patients	Carmen Bente	Monday	14:45	Lungs & Ventilation 1
28	Temporal Ventilation Heterogeneity Detected by EIT during Quiet Breathing in COPD Patients	Laura Herrmann	Monday	15:00	Lungs & Ventilation 1



Regularisation, Optimisation and Machine Learning Methods

ID	Title	Presenting Author	Day	Time	Session
69	Feature-Based Identification of Object Shape from Boundary Voltages in Electrical Impedance Tomography	Olfa Kanoun	Monday	16:00	Regularisation, Optimisation and Machine Learning Methods
34	Solving the Complete Electrode Model with Physics-Informed Neural Networks	Ke Zhang	Monday	16:15	Regularisation, Optimisation and Machine Learning Methods
18	Artificial intelligence–assisted saline-contrast electrical impedance tomography for bedside pulmonary embolism assessment in acute hypoxemic respiratory failure	Rui Zhang	Monday	16:30	Regularisation, Optimisation and Machine Learning Methods
24	Fast CGO-based 3D EIT Reconstruction from Partial Boundary Data	Sarah Hamilton	Monday	16:45	Regularisation, Optimisation and Machine Learning Methods
52	EIDORS v3.13	Andy Adler	Monday	17:00	Regularisation, Optimisation and Machine Learning Methods
58	We need good measures of pendelluft so EIT can guide care	Peter Somhorst	Monday	17:15	Regularisation, Optimisation and Machine Learning Methods



Instrumentation & Hardware

ID	Title	Presenting Author	Day	Time	Session
47	Open-Source Data Acquisition Hardware for Fast Neural EIT	Kirill Aristovich	Tuesday	09:00	Instrumentation & Hardware
61	An FPGA-Based High-Speed Real-Time Frequency Division Multiplexed EIT System for Measuring Neural Impedance Changes	Shaykhah Almaghrabi	Tuesday	09:15	Instrumentation & Hardware
66	DMA-Optimised Acquisition Framework for Portable EIT Systems	Esteban Pino	Tuesday	09:30	Instrumentation & Hardware
37	3D FE Simulations on Digital Twins to study Effects on Electrical Impedance Measurements on the Human Thorax	Anita Just	Tuesday	09:45	Instrumentation & Hardware
31	Automated Multi-Tissue FEM Generation for Electrical Impedance Tomography from CT Data	Theresa Nolte	Tuesday	10:00	Instrumentation & Hardware
42	Next-generation EIT: Will relaxation spectroscopy meet tomography?	Philipp Urban Jacobs	Tuesday	10:15	Instrumentation & Hardware



Lungs & Ventilation 2

ID	Title	Presenting Author	Day	Time	Session
36	THOSIM: An EIT Lung–Thorax Simulation Platform	Marvin Kordis	Tuesday	11:00	Lungs & Ventilation 2
40	Differences in regional ventilation during induction of general anaesthesia between men and women: preliminary observations	Silke Borgmann	Tuesday	11:15	Lungs & Ventilation 2
46	Frequency-Domain Electrical Impedance Tomography Features for Detecting Apnoea in Premature Neonates	Joseph Omisanya	Tuesday	11:30	Lungs & Ventilation 2
48	Clinically unrecognised single-lung ventilation during infant intubation detected by EIT: a clinical case study	Marika Rahtu	Tuesday	11:45	Lungs & Ventilation 2



Lungs & Ventilation 3

ID	Title	Presenting Author	Day	Time	Session
25	Spatial Distribution of Ventilation Determined by EIT during Quiet Breathing and Ventilation Manoeuvres	Bianca Korella	Tuesday	15:00	Lungs & Ventilation 3
56	Pressure and the lung: EIT's role to help diver breathing at depth	Andy Adler	Tuesday	15:15	Lungs & Ventilation 3
57	Lung Imaging using Magnetic Induction Tomography: Results of the human study	Manuch Soleimani	Tuesday	15:30	Lungs & Ventilation 3
62	EIT-based laparoscopic lung imaging: a phantom study	Ethan Murphy	Tuesday	15:45	Lungs & Ventilation 3
17	Monitoring remission of equine asthma with EIT	Andy Adler	Tuesday	16:00	Lungs & Ventilation 3
65	Impact of Ventilation and Perfusion Thresholds on Saline Contrast EIT-Derived V/Q Matching	Mengru Xu	Tuesday	16:15	Lungs & Ventilation 3



Image & Reconstruction

ID	Title	Presenting Author	Day	Time	Session
4	Comparison of Probabilistic Generative Model Architectures for EIT Image Reconstruction	Jacob Thönes	Tuesday	17:00	Image & Reconstruction
14	Single-Cell Conductivity and Permittivity Reconstruction by Complex-Electrical Impedance Tomography	Daisuke Kawashima	Tuesday	17:15	Image & Reconstruction
35	Shape-Aware FC-UNet for Absolute EIT Reconstruction	Dominik Becker	Tuesday	17:30	Image & Reconstruction
51	Parameterized inversion of electrical impedance tomography with sparse and dense case sampling	Matthew Grayson	Tuesday	17:45	Image & Reconstruction
63	Complete electrode model via Robin boundary condition	William Lionheart	Tuesday	18:00	Image & Reconstruction
70	Reconstruction and Quantification using Quarter Electrode Arrays	Rosalind Sadleir	Tuesday	18:15	Image & Reconstruction



Other (non-lung) clinical applications

ID	Title	Presenting Author	Day	Time	Session
10	Area Clustering of Breast Cancer Tissues by Electrical Impedance Tomography Implemented with Gaussian Relaxation-time Distribution and Gaussian Mixture Models (EIT-GRTD-GMM)	Kunti Khoirunnisaa	Wednesday	10:30	Other (non-lung) clinical applications
12	Planar Frequency-Difference EIT (pfdEIT) for Investigation of Physiological Swelling in the Dorsum of the Foot	Kiagus Ibrahim	Wednesday	10:45	Other (non-lung) clinical applications
38	Tissue-Engineered Oral Mucosal Models for Preclinical Evaluation of Electrical Impedance Spectroscopy in Oral Cancer	Rachel Furnidge	Wednesday	11:00	Other (non-lung) clinical applications
60	EIT for Sarcopenia evaluated on Phantoms and Human Subjects	Ethan Murphy	Wednesday	11:15	Other (non-lung) clinical applications
50	Clinical Analysis of Bioimpedance Breast Detector in Diagnosing the Malignancy and Benignity of Breast Tumors	Barrington Burles	Wednesday	11:30	Other (non-lung) clinical applications
19	Modelling of a label-free DNA Biosensor based on MIS	César González Díaz	Wednesday	11:45	Other (non-lung) clinical applications
33	Synthetic- and in vitro- data enabled feature selection for EIS-based oral cancer diagnosis	Malwina Matella	Wednesday	12:00	Other (non-lung) clinical applications
54	Magnetic Induction Spectroscopy as a tool for detecting cervical remodelling to predict preterm birth – findings of a pilot study.	Dilly Anumba	Wednesday	12:15	Other (non-lung) clinical applications



Experimental Methods and Validation

ID	Title	Presenting Author	Day	Time	Session
68	Classification of Ambiguous German Sign Language Gestures Using Forearm Electrical Impedance Tomography	Bilel Ghouli	Wednesday	13:30	Experimental Methods and Validation
64	Magnetic Detection EIT with Optically Pumped Magnetometers (OPMs) in a Saline Phantom	Anhelina Holoborodko	Wednesday	13:45	Experimental Methods and Validation
72	At Last, an Explicit SVD for the Linearized Rotationally Symmetric EIT Problem on the Disk	William Lionheart	Wednesday	14:00	Experimental Methods and Validation
53	Frequency response of impedance changes during evoked activity in a rodent model	Florencia Maurino-Alperovich	Wednesday	14:15	Experimental Methods and Validation
59	3D EIT Improves Detection of Ventilation Inhomogeneity in Obstructive Lung Disease	Lana Chen	Wednesday	14:30	Experimental Methods and Validation



Posters

ID	Title	Presenting Author	Day	Time	Session
5	EIT with a wrapped-around electrode belt	Andy Adler	Monday	17:30	Poster session
11	CVAE-g*EIT: A Conditional Variational Autoencoder for Complex-Valued Gastric EIT Reconstruction	Armelia Ramandha	Monday	17:30	Poster session
21	Noise Separation for Electrical Impedance Tomography Using Weighted Nuclear Norm Robust Principal Component Analysis	Siyuan Han	Monday	17:30	Poster session
27	EIT reconstruction in constrained micro-laryngoscopy applications	Chiara Falagario	Monday	17:30	Poster session
30	Neural Network Post-Processing Resolves the Position-Size Trade-Off in 3D Breast EIT	SHADRACK Aboagye	Monday	17:30	Poster session
32	On applying a collocational approach to inverse problems in electrical impedance tomography	Rosalind Sadleir	Monday	17:30	Poster session
8	EIT Channel Selection for Estimating Aortic Blood Pressure	Patricia Fuchs	Monday	17:30	Poster session
22	Software Toolbox for Electrode Placement Optimization in Layered Material EBI Sensing	Marianne Petersen	Monday	17:30	Poster session
41	Stable recovery of piecewise constant conductance on spider networks	Enric Monsó	Monday	17:30	Poster session
43	Surrogate for EIT Forward Modeling	Carl Jacob Hormes	Monday	17:30	Poster session
9	PCB of Resistive Spider Networks for Conductance Recovery Validation	Inti Toalombo	Monday	17:30	Poster session
13	Adjacent Decomposition Algebra for EIT Measurement Protocols	Matthew Grayson	Monday	17:30	Poster session
49	Exploration of ex vivo tissue impedance spectrum measurement and discrimination criteria for breast detection in in vivo impedance tomography	Barrington Burles	Monday	17:30	Poster session
44	Feasibility Study of Magnetic Induction Tomography for Thigh Muscle Activity Monitoring	Zijiao Liu	Monday	17:30	Poster session
29	Data-driven approach towards localising biomedical robot using EIT	Anes Boulmerdj	Monday	17:30	Poster session
39	Electrical Impedance Tomography for In-Situ Process Monitoring	Moritz Hollenberg	Monday	17:30	Poster session

