

PROGRAM

March 3rd, 2025

Session I. Welcome and Inaugural lecture

5.30pm	6.00pm	Arrival and Registration
6.00pm	6.15pm	Welcome address - Sam Lhatoo (USA)
6.15pm	7.00pm	Fact Checking the Future : Artificial Intelligence in Medicine - Fei Wang (USA)
7.00pm	9.00pm	Refreshments

March 4th, 2025

7.00pm	7.30pm	Breakfast
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Session 2. Data, Platforms and Methods for AI

Chair: Philippe Ryvlin, Barbara Jobst
Panel : All Speakers

7.30am	7.50am	The Artificial Intelligence Alliance - Lara Jehi (USA)
7.50am	8.10am	AI for Epilepsy Decision Support - Michael Sperling (USA)
8.10am	8.30am	Natural Language Processing Tools - Real World Implementation -Tao Cui (USA)
8.30am	8.50am	Neural Resonance and AI - Rachel Smith (USA)
8.50am	9.10am	Re-visiting AI Based Detection of Generalized Convulsive Seizures - Philippe Ryvlin (Switzerland)
9.10am	9.20am	Panel Discussion
9.20am	9.30am	Platform 1
9.30am	9.40am	Platform 2
9.40am	1.30pm	Break

SESSION 3. Phenotyping Epilepsy Part I.

Chair: Michael Sperling, Barbara Jobst
Panel: All Speakers

1.30pm	1.50pm	Noise Cancelation: Diagnosing Epilepsy with AI - Brandon Westover (USA)
1.50pm	2.10pm	Morgoth: Using AI for EEG Reporting - Jin Jing (USA)
2.10pm	2.30pm	Universal latent space EEG representations for classification, clustering and prognostication - Christian Meisel (Germany)
2.30pm	2.50pm	Formalizing temporal-spatial reasoning for epilepsy and electrophysiology-based phenotyping - GQ Zhang (USA)
2.50pm	3.10pm	Large Language Models for Phenotyping Epilepsy - Lidia Moura (USA)
3.10pm	3.20pm	Panel discussion

3.20pm	3.30pm	Platform 1
3.30pm	3.40pm	Platform 2
3.40pm	4.00pm	Break

SESSION 4. Genotyping Epilepsy

Chair: Chair: Dennis Lal, Sumaiya Iqbal

Panel: All speakers

4.00pm	4.20pm	The European Health Data Space for an AI Future - Andrea Ganna (Finland)
4.20pm	4.40pm	LLMs in the genetics of epilepsy - Patrick May (Luxembourg)
4.40pm	5.00pm	Precision Medicine Discovery using AI - Sumaiya Iqbal (USA)
5.00pm	5.20pm	Polygenic risk prediction of risk for common epilepsies - Henrike Heyne (Germany)
5.20pm	5.40pm	AI in rare genetic epilepsies - Christian Bosselman (Germany)
5.40pm	5.50pm	Panel discussion
5.50pm	6.00pm	Platform 1
6.00pm	6.10pm	Platform 2
6.10pm	6.20pm	Platform 3
6.20pm	6.30pm	Prize Announcements
6.30pm		Close

March 5th, 2025

7.00am	7.30am	Breakfast
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SESSION 5. Diagnosis and Treatment

Chair: Sammer Sheth, Sophie Adler

Panel: All speakers

7.30am	7.50am	Using AI for Focal Cortical Dysplasia - Sophie Adler (UK)
7.50am	8.10am	Artificial Intelligence in Neural Periodicity and Treatment Response - Nicole Provenza (USA)
8.10am	8.30am	Using Imaging AI for Temporal Lobe Epilepsy Diagnosis - Zeke Gleichgerrcht (USA)
8.30am	8.50am	Automating Focal Cortical Dysplasia Diagnosis - Henrik Heiland (Germany)
8.50am	9.10am	Using AI for SEEG Guided Sensing and Treatment of Mood Disorders - Sameer Sheth (USA)
9.10am	9.20am	Panel discussion
9.20am	9.30am	Platform 1
9.30am	9.40am	Platform 2
9.40am	1.30pm	Break

SESSION 6. AI in Neurological Diseases

Chair: Sunil Sheth, Jerome Jeevarajan

Panel: All Speakers

1.30pm	1.50pm	Symmetry sensitive deep learning networks in stroke - Luca Giancardo (USA)
1.50pm	2.10pm	2D to 3D angiographic image translation, aneurysm flow dynamics and outcomes prediction - Venkat Keshav Chivukula (USA)
2.10pm	2.30pm	TBA
2.30pm	2.50pm	NLP for accelerated stroke detection - Benjamin Kummer (USA)
2.50pm	3.10pm	Stroke outcomes prediction using net water uptake and DL networks -Jerome Jeevarajan (USA)
3.10pm	3.20pm	Panel discussion
3.20pm	3.30pm	Platform 1
3.30pm	3.40pm	Platform 2
3.40pm	4.00pm	Break

SESSION 7. Phenotyping Epilepsy Part 2

Chair: Sandor Beniczky, Birgit Frauscher

Panel: All Speakers

4.00pm	4.20pm	Score-AI: Long term EEG Diagnosis using Artificial Intelligence - Sandor Beniczky (Denmark)
4.20pm	4.40pm	Consciousness - A Machine Learning Approach - Adeel Ilyas (USA)
4.40pm	5.00pm	Video AI for Seizure Recognition - Christian Meisel (USA)
5.00pm	5.20pm	Predicting Epilepsy Outcomes: Leveraging AI in Multimodal Imaging and EEG Integration - Kathryn Davis (USA)
5.20pm	5.40pm	AI for prediction of the epileptic focus using SEEG: the class imbalance problem - Birgit Frauscher (USA)
5.40pm	5.50pm	Break
5.50pm	6.00pm	Platform 1
6.00pm	6.10pm	Platform 2
6.10pm	6.20pm	Platform 3
6.20pm	6.20pm	Prize Announcements
6.30pm		Close

March 6th, 2025

7.00am	7.30am	Breakfast
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SESSION 8. Operationalized AI

Chair: Samden Lhatoo

7.30am	7.50am	Operationalizing AI in the Hospital Environment - Lara Jehi (USA)
7.50am	8.10am	Operationalizing AI -Beyond Closed Loop Stimulation - Sharanya Desai (USA)
8.10am	8.30am	The Shakiness of Ground Truth in EEG: Problem of interrater variability and its impact on AI Development - Josef Parvizi (USA)
8.30am	8.50am	Short Seizure Detection in Ultra-Long Term EEG- Jonas Duun-Henriksen (Denmark)
8.50am	9.10am	Medical AI - Hits, Misses and Lessons - Nima Akhlagi (USA)
9.10am	9.20am	Panel Discussion
9.20am	9.30am	Platform 1
9.30am	9.40am	Platform 2
9.40am		Closing of Conference