

Integrating AI into Ophthalmology

From Clinical Practice to Research

02 December 2024

eLOS Platform

time: 18:00 CET

ESASO Scientific director: Mario Romano

Course Scientific coordinators: Vito Romano, Uazman Alam, Yalin Zheng

MODERATOR: Vito Romano

Welcome and Introduction

Introduction to Artificial Intelligence in Ophthalmology

Understanding AI and Its Role in Ophthalmology

- Brief history and evolution of AI in healthcare.
- Explanation of core AI concepts relevant to ophthalmology (e.g., machine learning, deep learning).
- Overview of current AI applications in ophthalmology.
- The potential and future directions of AI in eye care

Speaker TBC

10 minutes

Training Ophthalmologists to Integrate AI

How integrate AI Tools into Clinical Workflows

- Key components of a robust AI research paper in ophthalmology.
- Criteria for evaluating the clinical impact of AI studies.
- Common pitfalls and red flags in AI research.
- Insights into the peer-review process and improving research submissions.
- The benefits of AI expressing own uncertainty (Gabriela Czanner)

Speaker TBC

15 Minutes

Q&A session

5 Minutes

Associated to



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How AI in Ophthalmology can impact upon systemic disease

Practical Applications of AI in Diagnosing and Treating Eye Diseases Speaker TBC *15 Minutes*

- Overview of AI research in systemic disease
- Case studies demonstrating of AI research in systemic diseases

Q&A session All *5 Minutes*

Building a Database for AI in Ophthalmology

Best Practices for Creating and Managing AI Databases

- Essential elements of a high-quality AI database in ophthalmology.
- Data collection strategies: Ensuring accuracy and diversity.
- Annotation and labeling protocols for eye disease data.
- Compliance with privacy regulations and data security.
- Long-term management and updating of AI databases.

Speaker TBC *15 Minutes*

Q&A session All *5 Minutes*

Participant Abstract Presentations and Evaluation

- *Pre-Course Submission: Participants are encouraged to submit abstracts on AI-related research in ophthalmology before the course.*
- *Presentation: Selected participants will present their abstracts during this session.*
- *Evaluation: Abstracts will be evaluated by the panel of speakers based on originality, methodology, and potential clinical impact.*
- *Feedback: Each presentation will receive constructive feedback from the experts, aimed at refining the research and encouraging further exploration.*

All Speakers *15 Minutes*

Closing Remarks and Summary

- Summary of key points discussed in the course.
- Final thoughts on the future of AI in ophthalmology.
- Information on further learning resources and next steps for participants

All Speakers