



# 1<sup>st</sup> INTERNATIONAL GLAUCOMA SYMPOSIUM

## Artificial Intelligence Assisted Glaucoma Diagnosis & Management



February 1, 2025  
Mainz | Germany  
9 am – 4 pm

Heidelberg Engineering Academy  
in cooperation with:



UNIVERSITÄTS**medizin.**

MAINZ

# 1<sup>st</sup> International Glaucoma Symposium

With advances in powerful image processing and machine learning techniques, computer-aided diagnosis has become increasingly widespread across all medical fields, including ophthalmology.

Glaucoma, a group of potentially blinding eye diseases, is characterized by optic disc changes, irreversible visual field defects, and often elevated intraocular pressure. Early and accurate diagnosis of glaucoma is crucial to prevent loss of visual function. However, the limitations of conventional diagnostic methods present opportunities for more advanced techniques using artificial intelligence (AI). These methods enable reliable and standardized large-scale screening of various imaging modalities, supporting clinicians in disease detection.

When combined with optical coherence tomography imaging, AI can create algorithms that model complex data for the effective detection and diagnosis of glaucoma.

We are very proud to present national and international experts in the field of artificial intelligence during this 1<sup>st</sup> Heidelberg Engineering Glaucoma Symposium (IGS) hosted at the Department of Ophthalmology of the Mainz University Medical Center. This meeting is intended to inspire other AI meetings in the field of ophthalmology.

We look forward to seeing you in Mainz!



**Prof. Norbert Pfeiffer, MD**

Head of Department of Ophthalmology  
University Medical Center Mainz



**Prof. Esther Hoffmann, MD**

Executive Consultant Ophthalmologist,  
Head of German Childhood Glaucoma Center  
University Medical Center Mainz

## Topics



Introduction to **Artificial Intelligence**

**AI Opportunities and Challenges** in Ophthalmology

**Glaucoma and AI:** The World of Tomorrow


**AI for Glaucoma:** State of the Art

**Which Glaucoma Imaging Modalities Suit AI**

**Which AI Model** for Glaucoma and **Why?**

**AI-Assisted Clinical Workflow** in Glaucoma

**Deep Learning Predicting:**

- Glaucoma Patients Vision
  - Fast Glaucoma Progressors
- 

## Speakers



**Ahmed, Sheraz** | Kaiserslautern, Germany

**Bozek, Katarzyna** | Cologne, Germany

**Mardin, Christian** | Erlangen, Germany

**Medeiros, Felipe** | Miami, USA

**Pazos, Marta** | Barcelona, Spain

**Pinto, Luis Abegao** | Lisboa, Portugal

**Schmetterer, Leopold** | Vienna, Austria

**Schottenhamml, Julia** | Erlangen, Germany

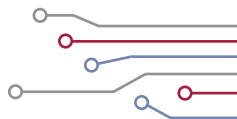
**Stalmans, Ingeborg** | Leuven, Belgium

**Xu, Benjamin** | Los Angeles, USA





**REGISTER  
NOW!**



<https://pretix.eu/academy.heidelbergengineering/IGS2025>

### Meeting Venue:

Department of Ophthalmology  
Mainz University Medical Center  
**Auditorium, Building 102**  
Langenbeckstrasse 1  
55131 Mainz | Germany



### Registration fee:

69,00 EUR incl. meals and VAT

Save your seat and register latest by Jan. 15, 2025!

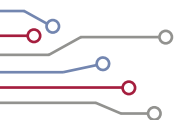
### Travel Information:

**Parking:** Car parks **Am Augustusplatz** or **Unimedizin** (10 EUR/day)

**By Plane:** From Frankfurt Airport (FRA): 30-45 min. ride by taxi.

**By Bus:** From Mainz train station (Hauptbahnhof) busses 62, 67, 69, 76, 92, 652 and 660 take you to station **Universitätsmedizin** with a short walking distance to building 102 on the campus.

**By Tram:** From Mainz train station (Hauptbahnhof) trams 50, 52 and 53 take you to station **Am Gautor** with 10 min. walking distance to building 102 on the campus.




**For more information and scientific  
program visit our website:**

[www.he-academy.com](http://www.he-academy.com)



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