

• ORGANIZING AND SCIENTIFIC COMMITTEE

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Organisers:



**SORCYL**

Sociedad de Oncología Radioterápica  
de Castilla y León

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# ARTIFICIAL INTELLIGENCE IN RADIATION ONCOLOGY



**SALAMANCA 2023**

VENUE: EUROSTARS LAS CLARAS HOTEL

## THURSDAY JUNE 29

16:00 Reception

16:55 Welcome  
Organizing Committee

Moderator: Dra. M<sup>a</sup> Carmen Rubio Rodríguez. HM Hospitales. Madrid

17:00 AI Concepts and Methods  
Dr. Juan Manuel Corchado Rodríguez. Universidad de Salamanca

17:20 AI for oncology outcomes prediction  
Dr. Amadeo Wals Zurita. H.U. Virgen Macarena, Sevilla

17:40 What do we need to participate in AI EU-funded projects?  
Pending speaker

18:00 Discussion

### 18:15 Coffee

Moderator: Dr. Javier Serrano Andreu. Clínica Universidad de Navarra, Madrid

18:45 AI based autocontouring and dose prescription  
Dr. Juan Antonio Vera Sánchez. Hospital QuirónSalud, Madrid

19:05 AI for adaptive radiotherapy: the Ethos solution  
Sra. Naiara Fuentemilla Urío. H.U. Navarra, Pamplona

19:25 Potential challenges for AI along the RT workflow  
Dr. Davide Cusumano. Hospital Gemelli, Roma (Intervention by videoconference)

19:45 Discussion

### 21:00 Dinner

## FRIDAY JUNE 30

Moderator: Dr. Damián Guirado Llorente. Universidad de Granada

8:30 AI solutions for radiotherapy (I)

8:30-8:40 Accelerating Radiation Therapy Planning with Autocontur: An AI Tool for Contours Generation  
Dr. Sebastián Sánchez Góez. Aplicaciones Tecnológicas

8:40-9:00 Data driven indication specific treatment planning for radiotherapy and radiosurgery  
Dr. Cornelis Kamerling. BrainLab

9:10-9:20 AI autocontouring is a reality: MVISION.  
Dr. Nestor Chinillach Ferrando, PhD. DTA

9:20-9:35 AI for earlier diagnostics, treatment planning and delivery acceleration.  
Mrs. Laura Benítez, Healthcare Innovation Strategist, Microsoft

9:35 Automated treatment planning solutions  
Mr. Mohammad Hussein. National Physical Laboratory (UK)

9:55 Discussion

10:00 Oral communications: AI for RT-experiences (I)  
Dr. David Miguel Pérez. Valladolid University Clinical Hospital

10:20 AI solutions for radiotherapy (II)

10:20 - 10:30 Automatic segmentation with artificial intelligence AIRC OrgansRT  
Mr. Miguel Rodríguez Checa. Varian

10:30-10:45 AI in clinical practice - challenges - needs - future vision  
Mr. Florian Cremelie. Clinical Implementation Specialist at MIM Software (Intervention by videoconference)

10:45-10:55 AI solution embedded in CT Aquilion LB Exceed (AICE)  
Mr. Israel López Velázquez. Business manager CT en Canon Medical Systems Europe

### 11:00 Coffee

Moderator: Dr. Jaime Martí Asenjo. HM Hospitales, Madrid

11:25 Radiotherapy and Artificial Intelligence  
Prof. Vincent Grégoire. Léon Bérard Cancer Center, Lyon, France

11:45 AI clinical impact in oncologic imaging: An engineer perspective  
Dr. Pedro M. Martínez Gironés. La Fe University and Polytechnic Hospital

12:00 AI clinical impact in oncologic imaging : A radiologist perspective  
Dr. Luis Gorospe Sarasua. Ramon y Cajal University Hospital

12:15 Discussion

12:30 Oral communications: AI for RT-experiences (II)

13:20 Optimization of treatment strategies: AI or mathematical models?  
Dr. Gabriel Fernández Calvo. Universidad de Castilla-La Mancha, Ciudad Real

13:40 Discussion

13:50 Wrap-up and conclusions  
Dr. Luis A. Pérez-Romasanta. H.U. Salamanca