



European Head & Neck Society

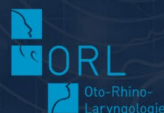
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CHARGE

3rd & 4th February 2023

ARTIFICIAL INTELLIGENCE MEETS HEAD & NECK ONCOLOGY



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ARTIFICIAL INTELLIGENCE MEETS HEAD & NECK ONCOLOGY

Friday 3rd & Saturday 4th February 2023



Dear Participants,

We would like to welcome you to the second virtual meeting of the European Head and Neck Society (EHNS) on Artificial Intelligence (AI) in Head & Neck Oncology. After a first teaser event last October with great feed-back, we have now organized a more in-depth congress this time also including workshops and debates.

The meeting will focus on AI and its impact on health care in general, cancer prevention, robotic surgery, radiotherapy, pathology, radiology, and the development of systemic treatment for head and neck cancers.

On the first day, we will hear keynote lectures addressing AI in cancer prevention, endoscopy, and robotics. This will be followed by a "submitted papers" session. In the afternoon we will address „safe“ AI and afterwards hear lectures on AI in radiation therapy and pathology.

On the second day we will hear lectures on AI in image analysis, drug development, and clinical trials. Afterwards there will be debates and workshops on AI for image and big data analysis.

We all look forward seeing you virtually in February 2023.

Many thanks in advance.

Yours sincerely,

Christian Simon, M.D.

Professor and Chairman

Department of Otolaryngology, Head and Neck Surgery, CHUV

University of Lausanne – Switzerland



ARTIFICIAL INTELLIGENCE MEETS HEAD & NECK ONCOLOGY

The scientific committee



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Aarhus - Denmark



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Dpt of Otolaryngology - H&N Surgery University of Turin
Turin - Italy



ARTIFICIAL INTELLIGENCE MEETS HEAD & NECK ONCOLOGY

DAY 01 - 3rd Feb 2023



08:45

Introduction to the meeting

Wojciech Golusinski, Sefik Hosai, Giovanni Succo, Christian Simon

09:00 - 10:30

AI in cancer prevention, endoscopy, and robotics

Moderator: Giovanni Succo

Keynote lectures:

- AI and videomics for early diagnosis and staging of head and neck cancer - Cesare Piazza
- AI in endoscopy - Marco Ferrari
- AI for head and neck surgery, including endoscopic and robotic approaches:
On our way to the "intelligent" surgeon? – Ferdinando Rodriguez

10:30 - 12:30

Submitted papers

Moderator: Chris Holsinger

Submitted papers

Each presentation 8 min (5 presentations)

12:30 - 13:30

LUNCH

13:30 - 15:30

"Safe" AI for health care

Moderator: Wojciech Golusinski

Keynote lectures:

- Understanding AI and its impact on health care - Allan Tucker
- Unlocking the power of AI for precision medicine with federated data science – Jean Louis Raisaro
- An Exposition on Data Characteristics Toward Promoting Reliable AI in Medicine - Sameer Antani
- How to make AI for head and neck oncology "safe" and transparent" in the future - Mathis Rasmussen

Coffee Break

16:00 - 17:30

AI in radiation therapy and pathology

Moderator: Jesper Eriksen

Keynote lectures:

- AI for delineation, planning and dose adaptation - Stine Korreman
- The future of AI in radiation therapy - Jesper Eriksen
- AI and applications in pathology – Torben Steiniche



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DAY 02 - 4th Feb 2023



09:00 - 11:00

AI for image analysis, drug development, and clinical trials
Moderator: Petr Szturz

Keynote lectures:

- AI for oral cancer management decisions - Carlos Miguel Chiesa Estompa
- AI and systemic head and neck cancer treatment - Petr Szturz
- AI in clinical head and neck cancer trials - Hisham Mehanna
- AI for head and neck imaging: Will we soon replace our radiologist? - Vishal Gupta

11:00 - 13:00

Debates on AI for image and big data analysis
Moderators: Hisham Mehanna, Sameer Antani

Debate 1:

- AI algorithms are ready and should be used for risk stratification: Pro – Ana Varges Gomes
- AI algorithms are ready and should be used for risk stratification: Contra – Christophe Le Tourneau

Debate 2:

- AI will lead to replacing the surgeon in surgery: Pro - Chris Holsinger
- AI will lead to replacing the surgeon in surgery: Contra - Vinidh Paleri

13:00 - 14:00

LUNCH

14:00 - 15:30

Workshops

Workshops:

- Demonstration on AI-supported radiographic image analysis: The case of delineation - Stine Korreman
- How to analyze big data sets using AI - Andres Bur
- Leveraging Complementary Strengths: Setting up a productive AI collaboration between computer-scientist and clinician - Anita Rau and Chris Holsinger

End of the event