## REGISTRIERUNG

**online:**
**www.isroi.org**

## FEES:

### Participation fee*:

**until 02.04.2024: 70 € / 90 €**
**until 23.04.2024: 80 € / 100 €**
**from 05.05.2024: 90 € / 110 €**
*The discounted rate applies to ISROI members

### Social evening:

**Friday, 24.05.2024: 35 € per Person**

The number of participants in the social evening is limited to 80 people and can therefore only be booked if there are still places available!

Go directly to the registration here:

## CONTINUING EDUCATION POINTS:

- **DGMP: 12 Punkte**
- **SSRMP: 9 Punkte**
- **Landesärztekammer Baden-Württemberg: 11 Points (CME)**

## ORGANISERS:

**ISROI - International Society for Radiation Oncology Informatics**
9000 St. Gallen, Schweiz

## Local Organiser:

**Universitätsklinikum Freiburg**
**Klinik für Strahlenheilkunde**
Robert-Koch-Strasse 3, 79106 Freiburg

UNIVERSITÄTS KLINIKUM FREIBURG

PD Dr. F. E. Heinmann
Leiter Klinische und Administrative Informatik
Tel.: +49 (0) 761 / 270 - 94550
kai-workshop@uniklinik-freiburg.de

## SCIENTIFIC COMMITEE:

PD Dr. F. E. Heinmann
Klinik für Strahlenheilkunde
Universitätsklinikum Freiburg

Prof. Dr. S. Janssen
Gemeinschaftspraxis für Strahlentherapie und Radioonkolgie, Hannover

S. Peters
Klinik für Radio-Onkologie, Kantonsspital St. Gallen

Prof. Dr. C. Bert
Strahlenklinik, Uniklinikum Erlangen

## SPEAKERS:

Detailed information on the speakers can be found on the website at:

**https://isroi-meeting.strahlenheilkunde.org**

## VENUE:


## SUPPORING ORGANISATIONS:

- Deutsche Gesellschaft für Medizinische Physik (DGMP)
- Swiss Society of Radiobiology and Medical Physics (SSRMP)
- Deutsche Gesellschaft für Radioonkologie (DEGRO);

Accredited by DEGRO Akademie

DEGRO AKADEMIE

## SPONSORS:

- **Varian Medical Systems 5000 EUR**
- **PTW Freiburg GmbH 3000 EUR**
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- **C-RAD GmbH**
- **LIMBUS AI**
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RaySearch Laboratories
C-RAD

# ISROI 2024

**24 - 25 May**
**Freiburg i.Br., Germany**

**International Society for Radiation Oncology Informatics**

*Formerly under the name KAI-Workshop*

**KLINIK FÜR STRAHLENHEILKUNDE**

# KAI - WORKSHOP

FÜR KLINISCHE UND ADMINISTRATIVE INFORMATIK IN DER RADIOONKOLOGIE

## GROSSER HNO HÖRSAAL
## KILLIANSTRASSE 579106
## FREIBURG i. Br., Germany

**www.isroi.org**

# EINLADUNG

Dear Colleagues,

We are pleased to announce the ISROI Meeting 2024 in close cooperation with DEGRO (Digitalisation Working Group) and DGMP. In 2018, the 7th edition of the KAI workshop (Klinische und Administrative Informatik in der Radioonkologie) was held for the last time in Freiburg under the chairmanship of PD Dr Felix Heinemann. The KAI workshops and the radiation oncology IT meetings in St.Gallen inspired by these workshops led to the founding of the International Society for Radiation Oncology Informatics (ISROI) in 2020. And the first official meeting under the auspices of ISROI was held in St.Gallen in spring 2022. Now, after 6 years, the event is returning to Fribourg - under the name ISROI 2024!

The interest and need for information and knowledge exchange in the field of radiation oncology informatics is greater than ever. In addition to the many existing challenges in taking the step towards fully digital working methods in radiation oncology, many new topics have recently emerged. The most prominent of these is probably artificial intelligence and, in particular, the use of generative data models. In the tradition of the KAI workshops, the upcoming ISROI meeting aims to highlight the approaches, possibilities and experiences for the implementation and operation of a digital radiotherapy facility and to provide space for the presentation of current topics and innovations.

The event is recognised by the German Society for Medical Physics (DGMP), the German Society for Radiaton Oncology (DEGRO) and the Swiss Society for Radiobiology and Medical Physics (SSRMP). Furthermore, it is applied for the recognisation by the Baden-Württemberg State Medical Association (LAEKBW) to be assessed with 11 continuing medical education points (CME).

We cordially invite you to come to Freiburg after 6 years and look forward to your participation.

**PD Dr. F. E. Heinemann**
**S. Peters**

**Prof. Dr. S. Janssen**
**Prof. Dr. C. Bert**

# PROGAM

## Friday, 24 May 2024

09:00 – Registrations

10:20 – Opening

*Paul Martin Putora (President ISROI, St.Gallen)*

*Felix Heinemann (Lokaler Organisator)*

**SESSION I - 10:30 - 12:10**

### Worklfow and Datamanagement

*Chair: P.M. Puora; C. Bert*

10:30 – How we transformed our clinic to become more efficient by implementing web-based workflow solutions
*Gerd Heilemann (Wien)*

10:50 – From Frustration to Innovation: Crafting Solutions for End-User Workflow Challenges
*Frank Grozema (Genf)*

11:10 – Apps in der Radio-Onkologie
*Stefan Janssen (Hannover)*

11:30 – Implementierung einer digitalen Nachsorge in der Strahlentherapie auf Basis eines standardisierten, einheitlichen, strukturierten, deutschsprachigen Nachsorgefragenkatalogs
*Micheal Ehmann (Mannheim)*

11:50 – Prospektive Studien zu ePROMs
*Nils Nicolay (Leipzig)*

**12:10 –** *LUNCH BREAK* ***(60 MIN.)***

**SESSION II - 13:15 - 14:35**

### Data and Security

*Chair: S. Peters, N.Nicolay*

13:15 – Riskmanagement in Radioation Oncology
*Christoph Bert (Erlangen)*

13:35 – Business Continuity Management – rise like a phoenix
*Peter Fischer (Luzern)*

13:55 – Cyberattack fallback scenario for a radiotherapy department
*Eric Messen (Antwerpen)*

14:15 – Mitigation and management of cyberattacks from a radiotherapy perspective - an ESTRO ROSQC project
*Samuel Peters (St.Gallen)*

**14:35 –** *COFFEE BREACK* ***(25 MIN.)***

**SESSION III - 15:00 - 16:20**

### Artificial Intelligence 1 - General

*Chair: F. Dennstädt, D. Baltas*

15:00 – KI - was ist das eingentlich?
*Marco Meinschad (Salzburg)*

15:20 – Detecting and mitigating biases in multimodal generative models
*Janna Hastings (St.Gallen)*

15:40 – Imaging-based Clinical Decision Support Systems in Radiation Oncology - The potential role of Artificial Intelligence
*Jan Peeken (München)*

16:00 – AI applications in radiation oncology-The role of the FAIR data principles
*Petros Kalendralis (Maastricht)*

**SESSION IV - 16:30 -17:00**

### International Society for Radiation Oncology Informatics

*Chair: P.M. Putora*

16:30 – Allgemeine Infos zur ISROI
*Paul Martin Putora (St.Gallen)*

16:40 – Projekt: Need for IT-Specialist in RO-Departments
*Samuel Peters (St.Gallen)*

16:45 – Projekt: CMD
*Fabio Dennstädt (Bern)*

16:50 – Projekt CDSS and KnowledBase
*Fabio Dennstädt (Bern)*

**Clinic tour starting at 17:15**

Social Evening at
Greiffenegg-Schlössle
19:00 - 23:00
Schlossbergring 3
79098 Freiburg

35 € per Person

The number of participants in the social evening is limited to 80 people and can therefore only be bookedif there are still places available!

## Saturday, 25 May 2024

**SESSION V - 08:30 - 10:10**

### Artificial Intelligence 2 - Applications

*Chair: N. Cihoric, M. Meinschad*

08:30 – Using LLMs for data- and knowledge management in radiation oncology
*Fabio Dennstädt (Bern)*

08:50 – KI-gestützte Zielvolumendefinition in der Strahlentherapie
*Florian Putz (Erlangen)*

09:10 – Optimised intraoperative radiotherapy treatment workflow using machine learning methods
*Sara Vockner (Salzburg)*

09:30 – Data Aspects in the Implementation of Deep Learning Based Image Segmentation
*Tobias Fechter (Freiburg)*

09:50 – ncRNAs as biomarkers for clinical outcome and toxicity in locally advanced NSCLC stage III
*Elvis Ruznic (Salzburg)*

**10:10 –** *COFFEE BREAK* ***(30 MIN.)***

**SESSION VI - 10:40 -12:20**

### Applikations in clinial settings

*Chair: S. Peters, F. Heinemann*

10:40 – SeDI – Einführung eines semantischen PACS zur Datenmigration von Pinnacle® zu Raystation®
*Mike Fröhlich (Singen)*

11:00 – Eclipse Scripting in Focus: Applications in Radiation Oncology
*Ilias Sachpazidis (Freiburg)*

11:20 – Potential der Datenalyse für die angewandte Strahlentherapie
*Marcel Nachbar (Berlin)*

11:40 – Common Data Elements
*Nikola Cihoric (Bern)*

12:00 – Der Einsatz von Kubernetes im Bereich der strahlentherapeutischen Informatik
*Lukas Marquerdt (Freiburg)*

**Closing Discussion 12:20 - 13:00**

### Grand Challenges in RO-IT - and possible solutions

*Chair: F. Heinemann, S. Peters*