

# 2<sup>nd</sup> International Conference and School on Radiation Imaging and Nuclear Medicine (ICSRI-2023)

11-15 June 2023, Setif, Algeria

## 2<sup>nd</sup> Call for Papers

With great pleasure, the Organizing Committee announces the second call for abstracts submission and school application for the second International Conference and School on Radiation Imaging and Nuclear Medicine (ICSRI-2023), to be held at Ferhat Abbas-Setif1 University, in Setif, Algeria, from **11 to 15 June, 2023**. The conference is supported by the Algerian Atomic Energy Commission (COMENA).

**The conference** will include plenary sessions with conferences presented by eminent scientists, and orally and in poster sessions covering the different conference topics.

The invited talks are chosen to review recent advances in different areas covered by the conference.

The conference will be followed by **a three (3) days school** for doctorate students and newly qualified academics and

researchers in the field of radiation imaging and applications (20 participants max.). The program of the school will include lectures and practical sessions on four topics: 1. Monte Carlo simulations in molecular imaging and dosimetry, 2. Advanced anthropomorphic computational models, 3. Medical lasers-Physics, Clinical Applications and Safety Management, 4. Artificial intelligence in medical image processing, and 4. Transmission computed tomography.

The conference proceedings will be published in a special issue via an academic publisher.

The conference will be held at Moloud Kacem Nait Belkacem Auditorium of Ferhat Abbas-Setif1 University, Algeria.

## Conference Topics:

The 2<sup>nd</sup> International Conference and School on Radiation Imaging and Nuclear Medicine (ICSRI-2023) will be held for the second time at the University of Sétif1 and will provide an international forum for discussing current research and developments in the domain of radiation imaging and applications that includes all kind of medical and industrial techniques.

**Track 1:** Non-medical radiation imaging (X-ray,  $\gamma$ -ray, neutrons, electrons...)

**Track 2:** Radiation Imaging methods and systems development

**Track 3:** Radiation Imaging Simulation and modeling

**Track 7:** Image Processing and Data Analysis Techniques

**Track 4:** Molecular Imaging and Nuclear Medicine (SPECT, SPECT/CT, PET/CT, PET/MR, etc)

**Track 5:** Medical Radiation Imaging (CT, Mammography, Fluoroscopy, MRI, US, etc)

**Track 6:** Advanced Imaging Methods (Image Reconstruction, Artificial Intelligence, Radiomics, Theragnostics, etc)

## Organizing Committee

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### Important Dates

- Registration and Abstract Submission Opening  
1<sup>st</sup> December 2022
- Abstract Submission Deadline  
10<sup>th</sup> May 2023
- Acceptance notification  
20<sup>th</sup> March to 20<sup>th</sup> May 2023

### Secretary of the ICSRI-2023

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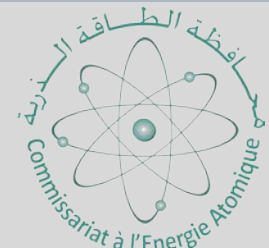
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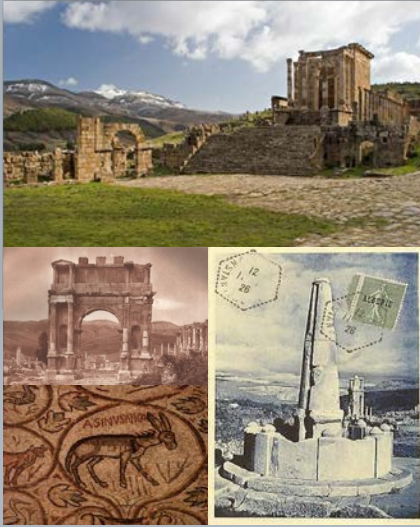
E-mail: [icsri@univ-setif.dz](mailto:icsri@univ-setif.dz)

Website:

<https://ocs.univ-setif.dz/ICSRI/ICSRI>



## International Program Committee



Cuicul (Djémila- 55 km from Setif city-) was built at 900 meters of altitude during the 1st century AD as a Roman military garrison. It became a UNESCO World Heritage Site for its unique adaptation of Roman architecture to a mountain environment. Significant buildings in ancient Cuicul include a theatre, two fora, temples, basilicas, arches, streets, fountain and houses. The exceptionally well preserved ruins surround the forum of the Harsh, a large paved square with an entry marked by a majestic arch.

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|--|---|
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| Amrani Naima (UFAS1, Dz)                     | Maalej Nabil (KU, UAE)                              |
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| Kharfi Fayçal (UFAS1, Dz)                    | Zidi Tahar (COMENA, DZ)                             |

## Welcome to Setif

Sétif (the capital of Sétif Province) is a town in north-eastern Algeria, 1096 meters above sea level. It is the second most populated Province after the country's capital. The streets are tree-lined with a fountain and theater, giving the town French feel. A large amusement park is located in the center of the city where the city Zoo can be found. The ruins from Roman, Byzantine, Islamic and colonial eras adorn the city center.

The local economy deals both with trade and industries. The trade is mainly in grain and livestock from the surrounding region. Sétif has become the commercial center of a region where textiles are made, phosphates are mined and cereals grown. Other industries are woodworking, manufacture of carpets and metal handicrafts.

Sétif is connected by rail as well as the main national highway. The city has also an international airport.

## Registration Fees

### • The registration fees include:

- o Lunch, banquet,
- o Conference proceedings and bag
- o City tour & Gala dinner
- o For the school participants diners are included in registration fees.

• Students are required to provide a copy of a valid ID that certifies their full-time student status.

The registration fees are:

### Conference

Regular scientists:	15000 DZD (100 Euro)	AI *
	7000 DZD (50 Euro)	ANI**

Doctorate students	10000 DZD (75 Euro)	AI
	6 000 DZD (40 Euro)	ANI





















School	15000 DZD (100 Euro)	AI
	6000 DZD (40 Euro)	ANI

Industrial:	30000 DZD (200 Euro)	ANI
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\*: Accommodation included, \*\*: Accommodation not included



# Preliminary Conference and School Program

Day	Morning		Afternoon	
<b>Conference</b>				
Day1	 <b>Opening Ceremony</b> <b>Plenary Session</b>	 <b>Session 1:</b> Non-medical radiation imaging (X-ray, $\gamma$ -ray, neutrons, electrons...)	 <b>Session 2:</b> Radiation Imaging methods and systems development	 <b>Session 3:</b> Radiation Imaging Simulation and Modelling
Day2	 <b>Session 4:</b> Molecular Imaging and Nuclear Medicine (SPECT, SPECT/CT, PET/CT, PET/MR, etc)	 <b>Session 5:</b> Medical Radiation Imaging (CT, Mammography, Fluoroscopy, MRI, US, etc)	 <b>Session 6:</b> Advanced Imaging Methods (Image Reconstruction, Artificial Intelligence, Radiomics, Theragnostic, etc)	 <b>Session 7:</b> Image Processing and Data Analysis Techniques
<b>School</b>				
Day1	 <b>Lecture 1:</b> The role of Monte Carlo simulations in molecular imaging and dosimetry	 <b>Lecture 2:</b> Advanced anthropomorphic computational models	 <b>Lecture 3:</b> Medical lasers- Physics, Clinical Applications and Safety Management (Part1)	 <b>Lecture 4:</b> Medical lasers- Physics, Clinical Applications and Safety Management (Part2)
Day2	 <b>Lecture 1:</b> Artificial Intelligence (AI) for medical image analysis	 <b>Lecture 2:</b> Deep learning (DL) for medical image analysis	 <b>Practical work 1:</b> Practical examples of machine learning for medical image analysis	 <b>Practical work 2:</b> Practical examples of DL for medical image analysis
Day3	 <b>Lecture 1:</b> Fundamental of Transmission Tomography	 <b>Lecture 2:</b> Image Reconstruction Methods in Computed Tomography	 <b>Practical work 1:</b> X-ray Tomography in Practice	 <b>Practical work 2:</b> 3D Image Reconstruction and Analysis

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