

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

11-15 June 2023, Setif, Algeria

## 1st Call for Papers

With great pleasure, the Organizing Committee announces the first call for abstract submission and school application for the second International Conference and School on Radiation Imaging (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 Nuclear 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

## Conference Topics:

The 2<sup>nd</sup> International Conference and School on Radiation Imaging (ICSRI-2023) will held for the first 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.

Conference topics will include:

**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

researchers in the field of radiation imaging and applications (20 participants max.). The program of the school will include lectures and practical sessions on five 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 5. Transmission computed tomography.

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

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

## Important Dates

- Registration and Abstract Submission Opening  
**December 1, 2022.**
- Abstract Submission Deadline  
**February 20, 2023.**
- Acceptance notification  
**April 20, 2023**

## *Secretary of the ICSRI-2023*

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Ferhat ABBA5 University of Setif

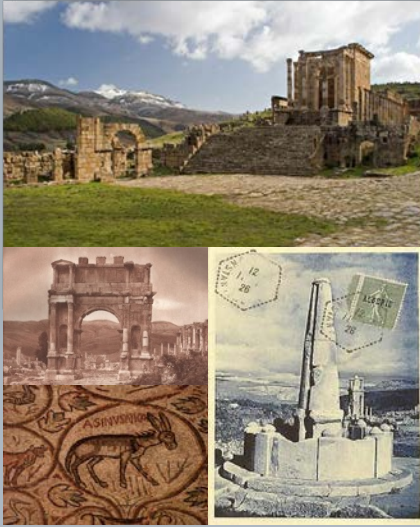


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Cuicul (Djémila- 55 km from Setif city-) was built at 900 meters of altitude during the 1st century AD as a Roman military garrison. It became a UNESCO World Heritage Site for its unique adaptation of Roman architecture to a mountain environment. Significant 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.

## Registration Fees

- The registration fees include:
  - o Lunch, banquet,
  - o Conference proceedings and conference 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) 7000 DZD (50 Euro)	AI * ANI**
Doctorate students	10000 DZD (75 Euro) 6 000 DZD (40 Euro)	AI ANI
School		
	15000 DZD (100 Euro) 6000 DZD (40 Euro)	AI ANI
Industrial:	30000 DZD (200 Euro)	ANI

\*: Accommodation included, \*\*: Accommodation not included

## International Program Committee

- |  |   |
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## 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.



## Preliminary Conference and School Program

Day	Morning		Afternoon	
<b>Conference</b>				
				
<b>Day1</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>Day2</b>	<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>				
				
<b>Day1</b>	<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)
				
<b>Day2</b>	<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
<b>Day3</b>	<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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