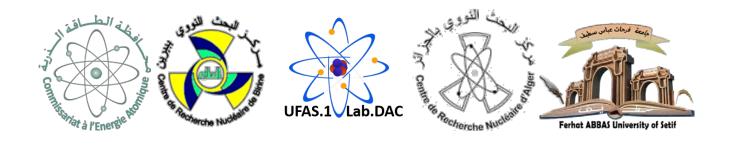
Second International Conference and School on Radiation Imaging and Nuclear Medicine

Ferhat Abbas-Setif1 University-UFAS1
Faculty of Sciences
In partnership with the Atomic Energy Commission-COMENA
ALGERIA

Setif, June 11-15, 2023



Conference Scientific Program



Scientific Program of the Conference

O8h00 08h30 Welcome and Opening Ceremony 09h00 Pr. Fayçal Kharfi and Dr. Layachi Boukerdja Oral Session 1 : Medical Imaging, Molecular Imaging, and Nuclear Medicine Plenary Talk 1 :			
08h30 08h30 Welcome and Opening Ceremony 09h00 Pr. Fayçal Kharfi and Dr. Layachi Boukerdja Oral Session 1 : Medical Imaging, Molecular Imaging, and Nuclear Medicine Plenary Talk 1 : Pr. Habib ZAIDI PET Instrumentation & Neuroimaging Laboratory, Geneva University Hospital,			
09h00 Pr. Fayçal Kharfi and Dr. Layachi Boukerdja Oral Session 1 : Medical Imaging, Molecular Imaging, and Nuclear Medicine Plenary Talk 1 : Pr. Habib ZAIDI PET Instrumentation & Neuroimaging Laboratory, Geneva University Hospital,			
Oral Session 1 : Medical Imaging, Molecular Imaging, and Nuclear Medicine Plenary Talk 1 : Pr. Habib ZAIDI PET Instrumentation & Neuroimaging Laboratory, Geneva University Hospital,			
Plenary Talk 1: Pr. Habib ZAIDI O9h00 O9h30 PET Instrumentation & Neuroimaging Laboratory, Geneva University Hospital,			
09h00 09h30 PET Instrumentation & Neuroimaging Laboratory, Geneva University Hospital,			
09h00 09h30 PET Instrumentation & Neuroimaging Laboratory, Geneva University Hospital,			
09830			
I. Rekik Ohan Department of Physics, Forbat Abbas Sotif1 University, Sotif Algeria	ı		
I. Rekik Ohio Department of Physics, Forbat Abbas, Sotiff University, Sotif Algeria	Ch		
00h20 Department of Physics Forhat Abhas Sotiff University Satif Algeria	Chairman :		
Department of Frigsics, Fernat Abbas-Settle University, Settl, Algeria	nan		
09h50 Locoregional Recurrence Prediction in Head & Neck Cancer: A Comparative ☐			
Study			
09h50 Salah Azaïez Institute Tunis Tunisia			
10h10 Primary location of a neuroendocrine tumor identified by PET-CT or 18F-FD G			
10h10 Coffee Break			
10h30			
10h10 Poster Session : All Topics 11h30 Dr. Seif Eddine Allah Chouaba, Dr. Abderrahim Betka, and Dr. Bilal Sari			
N. Mekroud			
Denartment of Computer Science Ferhat Ahhas-Setif1 University Setif Algeria			
Knowledge extraction from gene expression images: Adaptation of association rule	les		
mining for theory of evidence			
L. Boumedine			
Department of Physics, Faculty of Sciences, Ferhat Abbas-Setif1 University, Setif, Alge			
Simulation of Target Material Choice on Laser proton Dose Distribution for Biomedi Imaging	icui		
K. Nasri			
3 Department of Computer Science, Ferhat Abbas-Setif1 University, Setif, Algeria			
Very Deep Learning Approach for MGMT Detection			
F. Lahrache Department of Mathematics and Computer Science Faculty of Science and Technol	0.51		
Department of Mathematics and Computer Science, Faculty of Science and Technology, University of Ghardaia, Ghardaia, Algeria	ogy,		
Medical Images Semantic Segmentation Using Deep Learning: A Survey			
N. Ait Ali Braham			
Department of Physics, Faculty of Sciences, Ferhat Abbas-Setif1 University, Setif, Alge			
Renal Time activity curves (TACs) modelling and comparison to images-based and	Renal Time activity curves (TACs) modelling and comparison to images-based and		
clinical dynamic scintigraphy results K. Benkahila			
Fighting against Cancer Medical Centre of Setif Algeria			
6 Dimensions, positioning and Hounsfield unit verification of 3D printed radiotherap	οy		
bolus using X-ray CT-scanning			

7	Dorea Maria Khalal Department of Physics, Faculty of Sciences, Ferhat Abbas-Setif1 University, Setif, Algeria Deep learning based automatic segmentation of lungs in CT images
8	S. Malki Department of Physics, Faculty of Sciences, Ferhat Abbas-Setif1 University, Setif, Algeria Evaluation of the complexity of a Volumetric Modulated Arc Therapy (VMAT) plan
9	M.O. Mebarki Department of Physics, Faculty of Sciences, Ferhat Abbas-Setif1 University, Setif, Algeria Automatic Detection of Anatomical Landmarks for Image Registration in Radiotherapy
10	M. Hebboul Nuclear Research Centre of Birine, Algeria Development of a control system for neutron tomography facility
11	N. Osmani Nuclear Research Centre of Birine, Algeria SEM and AFM study of radiation damage induced by neutron transmutation doping of Silicon
12	M. Sari Department of Computer Science, Faculty of Sciences, Ferhat Abbas-Setif1 University, Setif, Algeria An Efficient Convolutional Neural Network Model for Detecting Colorectal Cancer From Histological Images
13	B. SI Tayeb Department of Physics, Faculty of Sciences, Laboratory of Mechanics, Structures and Energy, Mouloud Mammeri University of Tizi-Ouzou, Tizi-Ouzou, Algeria Electrons elastic scattering by DNA and/or RNA molecules
14	H. Belloui Department of Physics, Faculty of Sciences, Ferhat Abbas-Setif1 University, Setif, Algeria Cerebrovascular segmentation using Deep learning techniques
15	H. Belloui Department of Physics, Faculty of Sciences, Ferhat Abbas-Setif1 University, Setif, Algeria Brain vessel segmentation using two deep learning techniques
16	M. Boukabcha Department of Physics, Faculty of Exacts Sciences and Informatics, Hassiba Benbouali University of Chlef, Chlef, Algeria Studying the effect of solar ultraviolet radiation on sunflower plants growth in Algeria
17	N.E.H. Boughaba University of Science and Technology Houari Boumediene, Faculty of Physics, SNIRM Laboratory, Algiers, Algeria A Scintillation Dosimeter Prototype for Brachytherapy
18	K. Khalal-Kouache University of Science and Technology Houari Boumediene, Faculty of Physics, SNIRM Laboratory, Algiers, Algeria Dosimetric benefits of adaptive radiotherapy for head and neck cancer
19	A.O. Meddas Department of Physics, Faculty of Sciences, Ferhat Abbas-Setif1 University, Setif, Algeria Influence of the architecture's depth and data size on the model performance for breast cancer classification

20	M.L. Yahiaoui Nuclear Research Centre of Birine, Djelfa, Algeria				
20	X-ray tomography reconstruction using TIGRE				
A. Benaidja					
21	Mohammed Seddik Benyahia University of Jijel, Jijel, Algeria				
	The impact of additional filtration on patient radiation dose in diagnostic radi	ology			
	I. Mehidi				
22	Department of Physics, Faculty of Sciences, Ferhat Abbas-Setif1 University, Setif, A	Algeria			
	Retinal Vessel Segmentation: Overview, Challenges and the Future				
22	R. Merghem	. I			
23	Department of Physics, Faculty of Sciences, Ferhat Abbas-Setif1 University, Setif, A	_			
	Exploration of Medical Image Registration Methods: CNN and Transformer-ba				
24	R.A. Boukabouya Department of Computer Science, Ferhat Abbas-Setif1 University, Algeria				
24	Cross-modality learning for prostate detection				
	Videoconference Session 1 : All Topics				
	D. Gayathri				
10h30	Digital Evidence Based Medicine, United Kingdom				
10h50	The use of Artificial Intelligence to optimise Pelvic Imaging for Women				
	Y. Salimi] _			
10h50	Geneva University Hospital, Geneva, Switzerland	P.			
11h10	Fully Automated Multi-Organ Segmentation in CT Images via Deep Neural	D.E			
	Networks	유 유			
	M. Amini	Chairman: Chouaib E			
11h10	Division of Nuclear Medicine and Molecular Imaging, Geneva University	n ar Bib			
11h30	Hospital, Geneva, Switzerland	Chairman: Pr. D.E.Chouaib Belkhiat			
	Auto-PET-IQA: A Fully Automated Region-Specific PET Image Quality Assessment Tool	<u> </u>			
	A. Akhavanallaf	#			
11h30	University of Michigan, Ann Arbor, MI, USA				
11h50	The predictive value of pretherapy 68Ga-DOTATATE PET and clinical				
	biomarkers in 177Lu-PRRT tumor dosimetry				
12h00 13h30	Lunch Break				
101100	Oral Session 2 : Medical Images Classification and Processing				
	Plenary Talk 2 :				
	Dr. Adouda ADJIRI				
13h30	Department of Physics, Faculty of Sciences, Ferhat Abbas-Setif1 University,				
14h00	Algeria	-			
	Understanding cancer resistance to therapy	Chairman: Pr. Habib Zaidi			
1.45.00	Y.R. Haddadi	Chairman: . Habib Za			
14h00 14h20	LTC Laboratory, Faculty of Technology, University of Saida , Saida Algeria	nar b Z			
141120	Medical Image Denoising Based on a Novel Bio-Inspired Optimization	aid:			
	Algorithm and Total Generalized Variation				
14h20	H. Chellakh				
14h40	Department of Computer Science, Ferhat Abbas University of Setif 1, Algeria				
	Rule Based Classifier for MRI Brain Tumor identification and classification				

14h40 15h00	S. Hamdi Department of Computer Science, Ferhat Abbas Setif1 University, Setif, Algeria Ensemble Transfer Learning for Improved Brain Tumor Classification in MRI Images	
15h00 15h20	Y. Azzi Department of Computer Science, Faculty of Sciences, Ferhat Abbas-Setif1 University, Setif, Algeria Class Imbalance and Evaluation Metrics for Medical Image Segmentation with Machine Learning Models	
15h20 15h40	Coffee Break	
	Oral Session3: Simulation in Radiation Therapy, Medical Imaging, and Dosimetry	
15h40 16h00	N. Ounoughi Mohammed Seddik Benyahia University of Jijel, Jijel, Algeria Ions beam therapy monitoring with the in-beam PET scanning: Monte Carlo simulation	F
16h00 16h20	N. Charmat University of Science and Technology Houari Boumediene, Faculty of Physics, SNIRM Laboratory, Algiers, Algeria Absorbed dose at the interface of two media under γ-rays irradiation: simulation vs experience	Chairman: Pr. Abdelouahab Moussaoui
16h20 16h40	Z.E. Bouraoui University of Science and Technology Houari Boumediene, Faculty of Physics, SNIRM Laboratory, Algiers, Algeria Evaluation of morphological changes based on cone beam CT for adaptive radiotherapy	nan: ເb Moussaoui
16h40 17h00	M. Semine Algerian Institute of Nuclear Engineering, Algiers, Algeria Virtual reality simulation: A tool for imaging and radiation therapy training	
	Monday, June 12, 2023	
	Oral Session 4: Imaging Techniques and Modalities	
08h00 08h30	Plenary Talk 3: Pr. Nabil MAALEJ Khalifa University, United Arab Emirates Development of nanoparticles for X-ray and MRI imaging	
08h30 08h50	N. Benmehenni Department of Mathematics, Faculty of Sciences, University of Sétif 1, Algeria Watermarking Images Using Virtual Color Models	Ch Pr. Yassi
08h50 09h10	O. Boukhennoufa SUPMICROTECH, CNRS, Institute FEMTO-ST, Besançon, France Multistage deep learning benchmarking of OAI imaging: Contribution of VIT in medical imaging	Chairman: Pr. Yassine Bouchareb
09h10 09h30	A. Lebal Mathematics and Computer Science Department, Amar Telidji University, Laghouat, Algeria EEG Signal for Schizophrenia Detection Using Deep Convolutional Neural Networks and Attention Mechanism	eb

09h30 09h40	Coffee Break				
	Videoconference Session 2 : All Topics				
09h40 10h00	O. Al-Kharusi Department of Physics, College of Science, Sultan Qaboos University, Muscat, Oman In-vivo Dosimetry using Diodes and MOSFETs in Radiation Therapy	Chairman Dr. Adouda A			
10h00 10h20	E. Şahiner Earth Sciences Application and Research Centre, Ankara University, Turkey Luminescence Dosimetry in Radiology and Nuclear Medicine: Advancements and Applications	Chairman: Adouda Adjiri			
10h20 10h30	Break				
	Oral Session 5 : Artificial Intelligence in Medical Imaging				
10h30 11h00	Plenary Talk 4 Dr. Yassine BOUCHAREB Department of Physics, College of Science, Sultan Qaboos University, Muscat, Oman Artificial Intelligence for Radiation Dose Optimization in Diagnostic Radiology and Molecular Imaging				
11h00 11h20	S. Atek Department of Physics, Faculty of Sciences, Ferhat Abbas-Setif1 University, Setif, Algeria Deep learning in medical image Segmentation using Multi-Modality fusion	Chairman: Pr. Nabil Maalej			
11h20 11h40	R. Bencheikh Department of Computer Science, Faculty of Sciences, Ferhat Abbas-Setif1 University, Setif, Algeria Innovative Deep Neural Network Models for Multilingual Translation Applied to Dyslexia	nan: Maalej			
11h40 12h00	I. Mansour Department of Computer Science, University of Ferhat Abbas Setif 1, Setif, Algeria Fully Attention Convolutional Deep Neural Networks for Polyp Segmentation and Classification from Histological and Colonoscopic Image				
12h00	Closing Ceremony				
12h30 12h30 14h00	Lunch				
14h00 18h00	Tour to the Antic Roman City of Djemila				