Third International Conference and School on Radiation Imaging and Nuclear Medicine

Setif, October 12-16, 2025

Conference Program

Scientific Program of the Conference

Sunday, October 12, 2025		
08h00 **08h30**	**Registration**	
08h30 **09h00**	**Welcome and Opening Ceremony**	
Oral Session 1 : Molecular Imaging and Nuclear Medicine (SPECT, SPECT/CT, PET/CT, PET/MR, etc)		
09h00 **09h40**	**Plenary Talk 1 :** **Prof. Habib ZAIDI** PET Instrumentation & Neuroimaging Laboratory, Geneva University Hospital, Switzerland ***Quantitative Imaging Biomarkers in the Era of Precision Medicine***	**Chairman : Pr. Hacene Azizi**
09h40 10h00	**N. Ounoughi** Mohamed Seddik Ben Yahia University, Jijel, Algeria ***Real-Time Imaging for Beam Control in Hadrontherapy***	
10h00 10h20	**A. Marouani** Faculty of Medicine, - University Setif1-Ferhat Abbas, Setif, Algeria ***The contribution of PET scan in the management of lung cancer***	
10h20 **10h40**	**Coffee Break**	
Oral Session 2 : Radiation Imaging Methods and Systems		
10h40 11h20	**Plenary Talk 2 :** **Prof. Nabil MAALEJ** Khalifa University, United Arab Emirates ***Spectral CT Parametric Imaging***	**Chairman : Pr. Habib Zaidi**
11h20 11h40	**A. Mahdjoubi** Clinique EL Moncef, Setif, Setif, Algeria ***Recent advances in ophthalmological exploration***	
11h40 12h00	**S.A. Kabara** University of Laghouat, Laghouat, Algeria ***Impact of CT Acquisition Parameters on Radiomics-Based Classification of Brain Tumors and Intracerebral Hemorrhage***	
12h00 **13h30**	**Lunch Break**	

Oral Session 3 : Image Processing and Data Analysis		
13h30 **14h10**	**<u>Plenary Talk 3 :</u>** **Dr. Mohamed El Hafedh ABDI** Centre of Scintigraphy Imaging of Bilda Blida, Algeria ***Exploring Artificial Intelligence AI as a tool for Detecting Hyperthyroidism Etiology in Thyroid Scans***	**Chairman:** **Pr. Abdelouahab Moussaoui**
14h10 14h30	**N. Hameche** Department of Computer Science, University Setif1-Ferhat Abbas, Sétif, Algeria ***Machine and Deep learning Techniques for Histological Images Classification***	
14h30 14h50	**O. Mebarki** Department of Physics, University Setif 1-Ferhat Abbas, Sétif, Algeria ***Hybrid Deep Learning Model for Complex Medical Image Segmentation***	
14h50 15h10	**A.O. Meddas** Department of Physics, University Setif 1-Ferhat Abbas, Sétif, Algeria ***Linking Noise and Training Variance for Breast Cancer Detection Through Deep Learning***	
15h10 15h30	**M. Lakab** Department of Computer Science, University Setif1-Ferhat Abbas, Setif, Algeria ***Neuro-Symbolic Integration of Deep Learning and Association Rule Mining for Interpretable Analysis of HIV Protein Sequences***	
15h30 **16h00**	**Coffee Break**	
16h00 **17h00**	**Poster Session : All Topics** **Pr. Hacene Azizi, Pr. Seif Eddine Allah Chouaba, and Dr. Abderrahim Betka**	
#10	**L. Issaadi** Department of Physics, University Setif 1-Ferhat Abbas, Sétif, Algeria ***Evaluation of the Spatial Resolution and Noise of Siemens Somatom Emotion 16 CT scanner for different scanning protocols and reconstruction kernels and windows***	
#14	**M. Belattar** Department of Physics, University Setif 1-Ferhat Abbas, Sétif, Algeria ***3D-Printed Personalized Bolus via Structured Light Scanning for Adaptive Radiotherapy***	
#15	**F. Mokeddem** Department of Physics, Faculty of Material Sciences, University Ibn Khaldun of Tiaret, Algeria ***Comparative Analysis of Hybrid Denoising Techniques and DnCNN for Poisson-Gaussian Noise Removal in Brain CT Images***	
#16	**M. Mahgoun** Department of Physics, University Setif 1-Ferhat Abbas, Sétif, Algeria ***L'intelligence artificielle en radiothérapie : état de l'art, défis et perspectives***	

#19	**S. Meddah** Department of Matter Sciences, Faculty of Sciences and Technology, Mohamed El Bachir El Ibrahimi University, Bordj-Bou-Arreridj, Algeria ***Determination of L1-L2 Coster-Kronig transition probabilities for some lanthanides elements***
#21	**H. Taiar** Department of Physics, University Setif 1-Ferhat Abbas, Sétif, Algeria ***Intelligent Patch-Level label Sampling using Deep Learning on Histopathological Whole Slide Images for the Perspective of Predicting Breast Cancer Recurrence***
#22	**A. Bendjedi** Ecole Normale Supérieur Messaoud Zoghar, Sétif, Algeria ***New values of 2P1/2 subshell fluorescence yields for heavy elements***
#23	**N. Taibouni** Faculty of Physics, University of Sciences and Technologies Houari Boumediene (USTHB), Algiers, Algeria ***Comparative Study of Natural Radioactivity in Domestic Ceramic Products***
#25	**M. Lamara** Department of Computer Science, University Setif1-Ferhat Abbas, Setif, Algeria ***MRI Segmentation and Prognostic Analysis Framework for Brain Cancer Using Foundation Models***
#26	**A. S. Mokhneche** Department of Physics, University Setif 1-Ferhat Abbas, Sétif, Algeria ***Artificial Intelligence based CAD for Early Prostate Cancer Diagnosis and Classification***
#28	**S. Abbassene, L. Benkacem** Laboratoire santé et environnement des hauts plateaux Sétifiens, Faculté de Médecine Université Sétif 1, Sétif, Algérie ***Protection des professionnels de santé exposés aux rayonnements ionisants (RI) : cadre réglementaire et missions du médecin du travail***
#29	**A. Guermache** Department of Physics, University Setif 1-Ferhat Abbas, Sétif, Algeria ***Deep Learning for Dose Prediction in Radiotherapy: A Comprehensive Review***
#30	**L. Benkacem, S. Abbassene** Service de médecine du travail, EPSP Ain El Kebira, Sétif, Algérie ***Réinsertion professionnelle post-irathérapie chez une manipulatrice de radiologie***
#33	**M. Sari** Department of Computer Science, University Setif1-Ferhat Abbas, Setif, Algeria ***A Hybrid Vision Transformer with LBP for Robust Facial Expression Recognition Using Local Texture Features***
#34	**I. Rekik** Department of Physics, University Setif 1-Ferhat Abbas, Sétif, Algeria ***Breast cancer recurrence prediction using machine learning***

#35	**S. Alouani, N.Bensekhria, S. Benaicha, W. Benhassine.** Faculté de Médecine, Université Ferhat Abbas Sétif 1, Sétif, Algérie ***Connaissances en radioprotection du personnel expose aux rayonnements ionisants d'un centre hospitalo-universitaire algérien: évaluation qualitative***
#36	**S. Benaicha, S. Alouani, W.Benahssine** Faculté de médecine, Université de Batna, Batna, Algérie ***Évaluation des risques professionnels liés à l'exposition aux radiations ionisantes chez les femmes travaillant en radiothérapie***
#38	**A. Tanto** Faculty of Technology, University Sétif1, Sétif, Algeria ***Simulation of Plasmonic Nanoantenna Arrays for Intracellular Sensing***
#39	**A. Lebal** University Batna 2-Mustapha Ben Boulaid, Batna, Algeria ***Deep Learning Approaches In Nuclear Imaging: A Systematic Review In Recent Decade***
#40	**K.E. Bensadallah** Service médecine nucléaire et imagerie moléculaire, CHU Bab El Oued, Algiers, Algeria ***Contrôles qualité des TEPSCAN***
#41	**A.E. Mihoubi** Department of Physics, University Setif 1-Ferhat Abbas, Sétif, Algeria ***Radiobiology-Informed Dosimetry for Personalized Nuclear Medicine Therapy***
#42	**L. Boumedine** Department of Physics, University Setif 1-Ferhat Abbas, Sétif, Algeria ***Validation of Li-CHx thin target for high dose distribution in LPA***
#43	**Y. Boukerdja** Faculty of Physics, University of Sciences and Technologies Houari Boumediene (USTHB), Algiers, Algeria ***Quantum Holography Imaging***
#46	**A. Benaidja** Department of Physics, University Setif 1-Ferhat Abbas, Sétif, Algeria ***Artificial Intelligence in Ophthalmic Image Processing: Advances and Challenges***
#48	**R. Bencheikh** University of Setif1, Sétif, Algeria ***Neurological solution using AI applied to Dyslexia***
#49	**N. Ghediri** Department of Physics, University Setif 1-Ferhat Abbas, Sétif, Algeria ***Dosimetric Evaluation of Custom 3D-Printed Boluses for Surface Tumors***
#51	**S.F. Labed** Université de Constantine 3, Constantine, Algérie ***Risques professionnels et radioprotection dans les services d'imagerie médicale et de médecine nucléaire***

#52	**D.M. Khalal** Department of Physics, University Setif 1-Ferhat Abbas, Sétif, Algeria ***Clinical Evaluation of Automatic Brain Segmentation in CT Images***	
#52	**F. Bella** LIMOSE laboratory - University of M'hamed Bougara Boumerdes, Boumerdes, Algeria ***Enhancing Pneumonia Diagnosis via Transfer Learning with ConvNeXt and CNNs on Chest X-Ray Images***	
Monday, October 13, 2025		
Oral Session 4 : Medical Physics		
08h30 **09h10**	**<u>Plenary Talk 4</u>:** **Prof. Abdelouahab MOUSSAOUI** Department of Computer Science, University Setif1-Ferhat Abbas, Sétif, Algeria ***From Scarce Data to Smart Diagnosis: Self-Supervised, Multimodal, and Multi-Task AI Driving the Future of Medical Imaging***	**Chairman:** **Pr. Nabil Maalej**
09h10 09h30	**A. Bouchikhi** Fighting Against Cancer Centre of Tlemcen, Tlemcen, Algeria ***In the Fight against Nasopharyngeal Carcinoma, Which Wins: Sequential or Integrated Boost?***	
09h30 09h50	**N. Hameche** Department of Computer Science, University Setif1-Ferhat Abbas, Sétif, Algeria ***Fully Attention Convolutional Deep Neural Networks for Polyp Segmentation of Colonoscopic Images***	
09h50 10h10	**S. Malki** Department of Physics, University Setif 1-Ferhat Abbas, Sétif, Algeria ***Machine learning models to asses patient specific quality assurance for pelvic cancers***	
10h10 **10h40**	**Coffee Break**	
Oral Session 5 : Dosimetry in Radiation therapy and Radiation Imaging		
10h40 11h00	**A. Rezoug** Faculty of Medicine, University of Oran, Oran, Algeria ***Le risque d'exposition radiologique en médecine dentaire : étude technique, comportementale et dosimétrique***	**Chairman:** **Pr. Djamel Eddine Chouaib**
11h00 11h20	**A. Benabdessadok** University Hospital of Annaba, Annaba, Algeria ***The effectiveness of radioactive iodine doses 30 mCi and 50 mCi in the treatment of thyroid gland cancer***	
11h20 11h40	**A. Boukchida** Department of Matter Sciences, Mohamed El Bachir, El Ibrahimi University, Bordj-Bou-Arreridj, Algeria	

	Empirical Calculation of L X-Ray Fluorescence Cross-Sections for Thorium Excited by Photons at Different Energies	
11h40 12h00	**A. Behouch** Department of Physics, Khalifa University of Science and Technology, Abu Dhabi, UAE ***AgenticRad: A Task-agnostic framework for automated and autonomous radiotherapy workflows***	
12h00 12h30	**Closing Ceremony**	
12h30 14h00	**Lunch**	
14h00 18h00	**Tour to the Antic Roman City of Djemila**	