

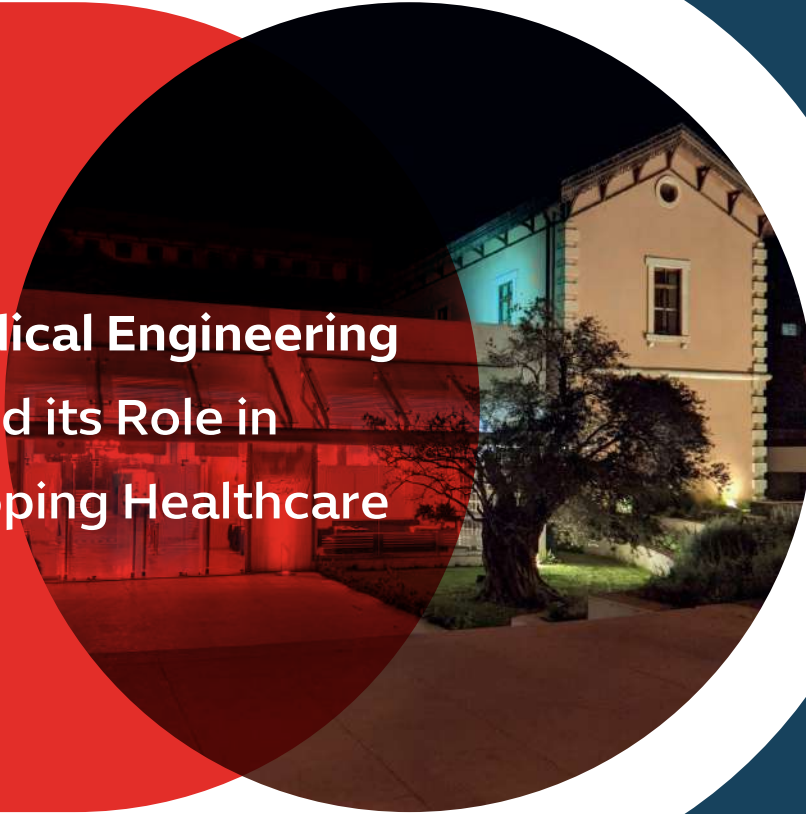


ICBME
ICBME 2024 - Damascus



وزارة التعليم العالي والبحث العلمي
MINISTRY OF HIGHER EDUCATION AND SCIENTIFIC RESEARCH

Biomedical Engineering and its Role in Developing Healthcare



International Conference
on Biomedical Engineering

ICBME 2024 - Damascus



April 28-30, 2024



9:00 Am - 6:00 Pm



Damascus university - Reda Saeed Conference center

About The Conference:

Organized by the Mechanical and Electrical Engineering Faculty at Damascus University, **the International Conference** will be held under the patronage of the Minister of Higher Education and Scientific Research.

The conference will take place at the **Damascus University Conference Center (Reda Saeed)** - Damascus University - Damascus - Syria during the period between 28-30 April 2024. Some sessions will also be held virtually. The conference program will include regular, special and other sessions to which specialists are invited. Contributions are in English.

In parallel of the conference, a medical equipment exhibition will be held in the same conference venue.

Second Conference Statistics



1700+

Attendance at the
conference and exhibition



45+

Participating
research



16

Participating
countries



6

Research published in the
Damascus University Journal



12+

The topics
presented



13

Participating
companies

The Co-Chairs of the Conference:



Prof.
Moustafa Al-mawaldi

Dean of the Faculty of
Mechanical and Electrical
Engineering at Damascus
University



Prof.
MHD Firas Al-Hinnawi

Vice President of Damascus
University for Postgraduate
Studies and Scientific
Research



Prof.
Rasha Massoud

Head of the Department
of Biomedical Engineering
at Damascus University

The Local Scientific Committee

Damascus University - Faculty of Mechanical and Electrical Engineering



Prof.
Prof. Issa Murad



Prof.
Maan Ammar



Prof.
Ahmad Khadour



Prof.
Nikola Abo Issa



Prof.
Zuheir Marmar



Assoc. Prof.
Hanan mukhaiber



Assoc. Prof.
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Assoc. Prof.
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The Local Scientific Committee



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Nisreen Sulayman



Dr.
Wael Imam



Dr.
Abdulrahman Abu Shuukur



Prof.



Prof.
Taher kaddar



Dr.
Hiyam Khaddam



Prof.
Nour Shamma



Dr.
Raouf-Hamdan



Assoc. Prof.
Talal Hammoud



Prof.
Mustafa Al-Hazouri



Prof.
Samir Karaman



Prof.
Imad Fattash



Dr.
Nidal Zidan



Assoc. Prof.
Mohallab Al Dawood



Assoc. Prof.
Basel Younes



Dr.
Abeer Alassod



Dr.
Sami Al Issa



Dr.
Hadeel Alghafari

The Local Scientific Committee

Damascus University - Faculty of Human Medicine



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Marwan Alhalabi



Prof.
Maher saifo



Prof.
Raed Abu Harb



Assoc. Prof.
Samer Mohsen



Assoc. Prof.
Fatmah tarrab

Damascus University - Faculty of Pharmacy



Prof.
Majd Aljamali



Prof.
Lama Youssef

Faculty of Dentistry



Prof.
Khaldoun Darwich

Aleppo University



Prof.
Louay Chachati

The Local Scientific Committee

Damascus University Faculty of Science



Prof.
Majeda Nahili

Higher Institute for Laser Research and Applications



Prof.
Tammam Motaweh

Tishreen University



Assoc. Prof.
Ghada Mohyeldin Saad



Assoc. Prof.
Lamis Kodsí

Tartous University



Prof.
Mohamad Ayham Darwich

ALBaath University



Dr.
Joumana Diab



Prof.
Abdul Karim Al salem



Dr.
Yaser Khadra



Dr.
Laila Khaddour

Atomic Energy Authority



Prof.
Yehia Lahfi



Prof.
Rami Jarjour



Prof.
Walid Al-Achkar

The Local Scientific Committee

Andalus University



Dr.
Rufaïda Hussain



Dr.
Ayman Al Kayal



Dr.
MHD Abdulkarem Daear



Assoc. Prof.
Mamdouh Mounif

Yarmouk Private University



Dr.
Muznah AlKhani

Ministry of Communications and Technology



Dr.
Anas Dahabiah

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Saint Petersburg State
Electrotechnical University,
Russia



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Professor
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& Technology, Kuwait



Moutaz Hamdan
Systems Development
Manager LumiraDx, Hospitals
and Health Care, UK



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Iraq



Bilal Alchalabi
Lecturer
Montreal ÉTS University
Canada



Antoun Khawaja
CEO and Chief Scientific Officer
Khawaja Medical Technology
GmbH, Germany



Saif Huq
Assistant Professor
York College of Pennsylvania
USA



Yasser Mostafa Kadah
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Saudi Arabia



Samer Al-Abed
Associate Professor
German-Jordanian University
Jordan



Ahmed Moh. El-Bialy
Professor
Cairo University
Egypt

Organizing Committee

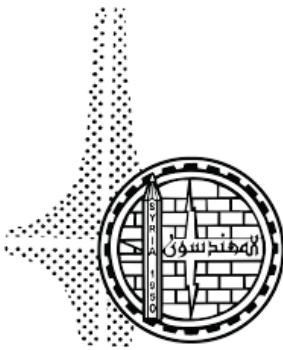
- Prof. Zuheir Marmar
- Assoc. Prof. Ayman Sabouni
- Eng. Mohamad Hamoud
- Eng. Amal Alromhein
- Eng. Roula Kayal
- Dr. Ayman Al Kayal
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- AbdAlslam ALfraaj
- Eng. Lama Mohammad
- Eng. Hiba Allah Essa
- Ahmad Kzbr
- Eng. Omar Alkousa
- Eng. Aleen Sliman
- Esber Esber
- Tasneem Bakeer
- Thaer Maasrani
- Ahmad Ahmad
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- Rama Khazaal
- Eng. Rama Shaheen
- Eng. MHD-Abd Alsattar Nafis
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- Eng. Saher Alnona Almorgana
- Alyaa Hussain
- Eng. Marah Barakat
- Eng. Hatem Zarefa
- Eng. MHD Marwan Alwanli
- Muhammad Maher Ibrahim Ibrahim
- Mohammad Shikh Hussain
- Eng. Najlaa Jolha
- Eng. Fatema Taha
- Hassan Al Zien
- Yasmin Abosaeb
- Zaher Allababidi
- Saisaban Salem Mohaamedsaeed
- Eng. Khaula Wejhani

Supporting Entities

Contributing Entities



Sponsoring Companies and Organizations



Themes of The Conference

- 01 Biomechanics** 1st/2nd Day
Damascus university auditorium
- 02 Bioinformatics** 2nd Day
Damascus university auditorium
- 03 EEG Lab Workshop** 2nd Day
Damascus university auditorium
- 04 Modern Technologies in Dentistry** 3rd Day
Damascus university auditorium
- 05 Radiology** 3rd Day
Damascus university auditorium
- 06 Biomedical Electronics & Biosignal Processing** 1st Day
Reda Saeed Theater
- 07 AI Applications in Medicine** 2nd Day
Reda Saeed Theater
- 08 AI for diagnosis** 2nd Day
Reda Saeed Theater
- 09 Robotics and Control in Biomedical Engineering** 2nd Day
Reda Saeed Theater
- 10 Healthcare and Biomedical Engineering** 3rd Day
Reda Saeed Theater
- 11 Biomedical Engineering and Audiology** 3rd Day
Reda Saeed Theater



Scientific Program of The Conference

ICBME - 2024

Opening ceremony programme

 April 28, 2024

 10:00-11:30 Am

 Damascus university auditorium

- **Introductory video about Damascus University** 10:00 Am
- **Speech of Prof. Mostafa AL-Mawaldi** 10:15 Am
Dean of Faculty of Mechanical and Electrical Engineering
- **Introductory video about the conference** 10:25 Am
- **Speech of Prof. Mohammad Firas Al-Hinnawi** 10:35 Am
Vice President of Damascus University for Scientific Affairs
and President of the Conference
- **Introductory video about previous conference** 10:45 Am
- **Speech of Prof. Mohammad Osama AL-Jabban** 10:50 Am
President of Damascus University
- **Introductory video about the CT lab** 11:00 Am
- **Speech of Prof. Bassam Ibrahim** 11:10 Am
Minister of Higher Education and Scientific Research
- **The opening of the exhibition** 11:20 Am

Damascus university auditorium

1st Day



University auditorium_ Day1				
28/04/2024				
Scope	Time	Title	Speaker	Affiliation
Chair person: Prof. Mhd Amer AL Mardini Moderators: Prof.Mhd Firas Al Hinnawi, Prof. Maher Saifo				
Opening Session	11:30-12:00	Cutting Edge in Pharmaceutical Technology Drug 3D Printing	Prof. Mhd Amer AL Mardini	Damascus University- Syria
	12:00-12:30	AI in medical technology	Prof. Mhd Firas Al Hinnawi Eng. Nisreen Almadi	Damascus University- Syria
	12:30-13:00	Precision Medicine in Cancer Therapy	Prof. Maher Saifo	Damascus University- Syria
	13:00-13:30	Radiation Protection Methods in Radiological and Hybrid Diagnostic Imaging	Prof. Yehia LAHFI	Atomic Energy Commission Syria
Coffee Break	13:30-14:00	Coffee Break		
Chair person: Prof. Zuheir Marmar Moderators: Dr. Faten Ajeeb, Dr. Abdulrahman Abu Shuukur				
Biomechanics	14:00-14:30	The role of Biomechanics in Rehabilitation	Prof. Zuheir Marmar	Damascus University Syria
	14:30-14:50	Evaluating The Effect Of Surgical Operations On Patients With Spastic Cerebral Palsy Using Fuzzy Logic Type2-	Saleh Massoud, Rasha Massoud, Moustafa AL-MAWALDI	Damascus University Syria
	14:50-15:20	Modeling of silver nanoparticle under the effect of blood flow	Dr. Lama Bou Farah	Lebanese German University Lebanon
	15:20-15:40	Investigation of nanocomposites based on epoxy resin	Shuklin S.G , Bystrov S.G	Udmurt State University Russia
	15:40-16:10	Examine The Impact of Total Hip Replacement on Spine Mobility Via Gait Analysis	Haider Alsaigh	Kerbala University Iraq
Coffee Break	16:10-16:30	Coffee Break		
Chair person: Moustafa AL-MAWALDI Moderators: Dr. Safa sarakbi, Dr. Laila Khaddour				
Biomechanics	16:30-16:50	Developing a Multi-Keel Prosthetic Foot: Static Analysis Simulation	Mohammad Alkhalili, Rufaida Hussain	AlAndalus university for medical sciences Syria
	16:50-17:10	OTO-AI - Development of a Novel Deep Learning Research Software for Inner Ear Malformation Classification.	Abdulrahman Alkojak Almasri, Abdulrahman Alsanosi, Franca Wagner, Anandhan Dhanasingh, Andras Kedves	University of Pecs, Hungary
	17:10-17:30	The effects of Charcot Marie Tooth Disease on Ankle Dorsiflexion/ Plantarflexion Angle	Zubida Subh , Moustafa Al-Mawaldi	Damascus University Syria
	17:30-17:50	Mechanical Behavior and Corrosion Properties of Ti7-Mo8-Nb Alloy for Biomedical Applications	Dr. Modar Saood	Cairo University Egypt

Damascus university auditorium

2nd Day



Scope	Time	Title	Speaker	Affiliation
Chair person: Prof. Majd Aljamali, Moderators: Prof. Lama Youssef, Prof. Walid Al-Achkar				
Bioinformatics	9:00-9:30	Transcriptomics: Analysis of Big Data	Prof. Majd Aljamali	Damascus University-Syria
	9:30-10:00	Engineering and <i>in vitro</i> and <i>in vivo</i> Characterizations of Immuno-Therapeutic Proteins Targeting Cancers	Prof. Lama Youssef	Damascus University-Syria
	10:00-10:30	AI's Evolution in Bioinformatics - Applications, Challenges, and Future Perspectives	Ghada Saad, Roushan Mubarak, Obada Massri	Tishreen University Syria
	10:30-11:00	Introduction to Pharmacogenomics	Rasha Alhomsy, Ramez M. Alkoudmani	Syrian virtual University Syria
Coffee Break	11:00-11:30	Coffee Break		
Chair person: Prof. Rami Jarjour Moderators: Dr. Raouf-Hamdan, Dr. Muznah AlKhani				
Bioinformatics	11:30-11:50	In Silico Identification of Key Genes and Pathways Associated with Bipolar Disorder Using GWAS	Hiba Mohammad, Lama Youssef	Damascus University Syria
	11:50-12:10	Study Stromal Cell-Derived Factor-1 (SDF1- α) in Patients Infected Urinary Tract Infections and Bacterial Vaginosis	Najat Mohammed Flyyih, Ahmed Abbas Ali, Alaa Hashim Abd Ali	Al furat Al-Awsat university Iraq
	12:10-12:30	Development of An Expert Predictive System for Colorectal Cancer Based on Measuring Gene Expression of The C-FLIP Protein Using Qrt-PCR Technology	Adnan Asber, Rasha Massoud	Damascus University Syria
Coffee Break	12:30-13:00	Coffee Break		
Chair person: Dr. Mohallab Al Dawood Moderators: Dr. Basel Younes, Dr. Rufaida Hussain				
Biomechanics	13:00-13:20	Mechanical Characteristics of Nitinol Stent Elements	Andrey Savchenko, Pavel Bogdan, Vladimir Minchenya, Heorgiy Viarshyna, Alexandr Ulasevich, Sunnat Sattorov	State Enterprise "Science and Technology Park of BNTU "Polytechnic" Belarus
	13:20-13:40	Design of Osteosynthesis Plates with Reduced Stress Shielding Effect Using 2 Topology Optimization	Dmitry Stepanenko, Hanna Bileichyk, Viktoryia Akhremchyk, Iskandar Mudinov, Denis Bodyak	State Enterprise "Science and Technology Park of BNTU "Polytechnic" Belarus
	13:40-14:00	Co-Cr-Mo Alloys for Medical Endoprostheses: Review	Diana Kurach, Pavel Lushchik, Heorgiy Vershina, Leonid Dolgiyg, Igor Rafalski,	State Enterprise "Science and Technology Park of BNTU "Polytechnic" Belarus
Coffee Break	14:00-14:30	Coffee Break		
Chair person: Dr. Hani Amasha Moderators: Dr. Ayman Sabouni, Dr. Lamis Kodsi				
Workshop	14:30-18:00	EEG / ERP Signal Processing Training Workshop in EEGLAB Toolbox	Dr. Golnaz Baghdadi	Amirkabir University of Technology (AUT) Iran

Damascus university auditorium

3rd Day



Scope	Time	Title	Speaker	Affiliation
Chair person: Prof. Khaldoun Darwich Moderators: Prof. Mohamad Ayham Darwich				
Modern Technologies in Dentistry: The Role of Medical Engineering and Digital Transformation	9:00-9:40	Applications of Medical Modeling in The Management of Bone Material Loss of The Maxillary Facial Structure Cases	Prof. Khaldoun Darwich	Damascus University-Syria
	9:40-10:20	Materials Science and Its Engineering Is a Platform for Modern Dentistry	Dr. Basem Ammar	Damascus University-Syria
	10:20-11:00	Digital Analysis in Dentistry: The Future of Treatment and Diagnosis	Prof. Mohamad Ayham Darwich	Tartous University-Syria
Coffee break	11:00-11:30	Coffee break		
Chair person: Prof. Omar Hamada Moderators: Dr. Eng. Basem Ammar				
Modern Technologies in Dentistry: The Role of Medical Engineering and Digital Transformation	11:30-12:10	Laser applications in oral lesions treatment: techniques and clinical results	Prof. Omar Hamada	Damascus University-Syria
	12:10-12:50	Orofacial Scanning: Evolving Technologies and The Role of Medical Engineering in Continuous Improvement	Dr. Zeina Darwich	Damascus University-Syria
Coffee Break	12:50-13:20	Coffee Break		
Chair person: Prof. Nikola Abo Issa Moderators: Prof. Majeda Nahili, Dr. Ayman Sabouni				
Radiology	13:20-13:50	Virtual Readouts: Radiologists should embrace the change	Prof. Khalid Esmat Allam	Ain Shams University - Egypt
	13:50-14:20	Designing A Monochromator Multi Crystal to Obtain A Monochromatic X-Ray Beam	Nikola Abo Issa, Hani amasha, Baraa Noman, Marah Barakat	Damascus University Syria
	14:20-14:40	Potential Thermal Effect of Stimulating Brain Tissue during Low Level Laser Therapy	Kawthar Shurrab, Moustafa Sayem El-Daher	Damascus University Syria
	14:40-15:00	The Effect of The X-Ray Tube Angle and The Field of View on The Radiation Dose Rate Absorbed by The Patient in Cardiac Catheterization Operations	Boutros Halak, Mohamad Firas AlHinnawi, Rasha Massoud, Waael Al-Imam	Damascus University Syria
	15:00-15:30	Latest CT Imaging Techniques	Eng. Farah Almuati	Al-Faisaliah Medical Systems Co. Ltd- syria

Reda Sae'ed Theater

1st Day



Scope	Time	Title	Speaker	Affiliation
Chair person: Dr.Hani Amasha Moderators: Prof. Abdulkarim Assalem, Dr. Hanan mukhaiber				
Biomedical Electronics & Biosignal Processing	11:30-12:00	Nervous System Augmentation	Prof. Hasan Al-Nashash	American University of Sharjah UAE
	12:00-12:30	The Evaluation of Bone Fracture Healing Using Ultrasound Waves	Dr. Hanan mukhaiber Eng. Rama Shaheen	Damascus University Syria
	12:30-13:00	New approaches for detecting and monitoring musculoskeletal disorders using smart wearable sensors	Prof. Sami Bennour	University of Sousse Tunisia
	13:00-13:30	Early breast cancer detection using microwave imaging	Prof. Abdulkarim Assalem	Al-Baath university Syria
Coffee Break	13:30-14:00	Coffee Break		
Chair person: Dr. Hani Amasha, Moderators: Dr. Ayman Sabouni, Dr. Bassam Lala				
Biomedical Electronics & Biosignal Processing	14:00-14:20	CineECG for Enhancing Cardiac Diagnosis: Review and Cases Study.	Mhd Jafar Mortada, Agnese Sbrollini, Laura Burattini	Marche Polytechnic University Italy
	14:20-14:40	When Does Your Brain Know You? Segment Length and Its Impact on EEG-based Biometric Authentication Accuracy.	Nibras Abo Alzahb, Lorenzo Scalise, Marco Baldi	Marche Polytechnic University Italy
	14:40-15:00	Time changes of involvement indexes in a cohort of epileptic patients during a working memory task	Erica Iammarino, Ilaria Marcantoni, Agnese Sbrollini, Micaela Morettini, Laura Burattini	Università Politecnica delle Marche Italy
	15:00-15:20	Personalized Temperature Control System for Hypo and Hyperthermic Patients	Dib R., Al Boutros D., Bou Farah L.	Lebanese German University Lebanon
	15:20-15:40	An electronic application for developing communication skills in children with Autism Spectrum Disorder	Mousa A., Ali R., Saad Gh., Nouman B.	Tishreen University Syria
	15:40-16:10	Developing AI-Powered Medical Software: From Concept to Market Readiness	Dr. Antoun Khawaja	Khawaja Medical Technology GmbH, Germany
	16:10-16:30	Cardiometry: A New Fundamental Scientific Field in Cardiology	O. VORONOVA, M. RUDENKO, V. ZERNOV	Russian New University Russia

Reda Sae'ed Theater

2nd Day



Scope	Time	Title	Speaker	Affiliation
Chair person: Prof. Marwan Alhalabi Moderators: Dr. Raouf-Hamdan , Dr. Mohammed Abdulkarem Daear				
AI Applications in Medicine	9:00-9:30	Artificial Intelligence in Assisted Reproduction	Prof. Marwan Alhalabi	Damascus University-Syria
	9:30-10:00	Artificial Intelligence Applications and Limitations in the Healthcare Industry	Prof. Yasser Mostafa Kadah	King Abdulaziz University-Saudi Arabia
	10:00-10:30	The Future Role of Artificial Intelligence in Advancing Healthcare and the Ethical Issues Associated with it	Dr. Fadi Motawej	Manara university Syria
	10:30-11:00	Bio/Nature-Inspired Swarm intelligence with Applications	Prof. Mohammad Osman Tokhi	London South Bank University UK
Coffee Break	11:00-11:30	Coffee Break		
Chair person: Prof. Joumana Diab Moderators: Dr. Hiyam Khaddam, Dr. Sami Al Issa				
Robotics and Control in Biomedical Engineering	11:30-12:00	Soft-Robotics for Healthcare Technology Applications	Dr. Khaled Goher	University of Nottingham UK
	12:00-12:20	Wheelchair Control through Eye Movement and Viola-Jones Algorithm Integration	Mohamad Ayham Darwich, Rami AlKadi, Hala Homsieh	Tartous University Syria
	12:20-12:40	Kinematics Study and Control of a Six-Degree-of- 1 Freedom Robotic Surgery Arm Using a Novel Super 2 Twisting Sliding Mode Control Algorithm	Hasnaa Wasouf, Joumana Diab	Al Baath University Syria
	12:40-13:00	Design And Implementation of a Wirelessly Controlled Medical Robotic Hand Locally	Eng. Zain Aldein Mahmoud Ahmad	Tartous University Syria
	13:00-13:20	Comparison of PSO-PID and GA-PID controllers for Heart Rate Pacemaker Control	Mohamad Ayham Darwich, Sahar AL Ali, AOs Mohammad, Muhammed Hikmat Muhammed	Tartous University Syria
Coffee Break	13:20-13:50	Coffee Break		
Chair person: Dr. Talal Hammoud Moderators: Dr. Ghada Saad , Dr. Anas Dahabiah				
AI for diagnosis	13:50-14:10	Machine Learning Models to Predict Osteoporosis Using Clinical Data	Kholoud Sweekat, Rasha Massoud, Mamdouh Monif	Damascus University-Syria
	14:10-14:30	LeukoVision: Improving Leukemia Diagnosis with VGG16 Convolutional Neural Network	Aseel Alshoraihy, Anagheem Ibrahim	Saint-Petersburg Electrotechnical University-Russia
	14:30-14:50	Utilize ML for Abnormal Tooth Classification in Dental Radiography	Saad Alkentar, Abdulkareem Assalem	Al-Baath university syria
	14:50-15:10	Building A Model for Early Prediction of Alzheimer's Disease Using Machine Learning	George Riashi, Rasha Massoud	Damascus University-Syria
Coffee Break	15:10-15:30	Coffee Break		
Chair person: Prof. Samir Karaman Moderators: Dr. Yaser Khadra, Dr. Ghada Saad				
AI Applications in Medicine	15:30-16:00	Segmentation of Brain Images for Medical Diagnostic Assistance	Dr. Abdellatif BOUZID-DAHO	Mouloud Mammeri University Algeria
	16:00-16:30	Autism Spectrum Disorder Classification Using The Most Correlated Features	Dr. Hichem Felouat	Graduate University for Advanced Studies, Tokyo, Japan
	16:30-17:00	Medical Imaging-based Musculoskeletal System Analysis in the Era of AI	Dr. Mazen Soufi	Nara Institute of Science and Technology Japan

Reda Sae'ed Theater

3rd Day



Theater Day3				
30/04/2024				
Scope	Time	Title	Speaker	Affiliation
Chair person: Dr. Yaser Khadra, Moderators: Dr. Fatmah Altarrab , Dr. Hadeel Alghafari				
Healthcare and Biomedical Engineering	9:00-9:30	The Contribution of Control Charts to Quality Improvement in Healthcare	Dr. Fatmah Altarrab	Damascus university Syria
	9:30-10:00	Unlocking the Potential of Blockchain in Biomedical Engineering A Gateway to Innovative Medical Solutions	Eng. Nibras Abo Alzahab	Marche Polytechnic University Italy
	10:00-10:30	Biomedical Engineering: Driving Sustainable Healthcare Development with SDGs	Dr. Babul Salam KSM Kader Ibrahim	Gulf University for Science & Technology Kuwait
	10:30-11:00	Systems And Technologies for Remote Monitoring of The People Health State with Chronic Diseases	Prof Zafar M. Yuldashev	Saint-Petersburg Electrotechnical University- Russia
Coffee Break	11:00-11:30	Coffee Break		
Chair person: Dr. Hani Amasha, Moderators: Dr. Nisreen Sulayman, Dr. Wael Imam				
Healthcare and Biomedical Engineering	11:30-12:00	Cardiovascular Bioengineering to Fight Sport-Related Sudden Cardiac Death	Prof. Laura Burattini	Marche Polytechnic University Italy
	12:00-12:30	Introduction to System Integration	Dr. Moutaz Hamdan	Systems Development Manager LumiraDx, Hospitals and Health Care UK
	12:30-13:00	State Of the Art Applications of Biomedical Engineering in The Space	Dr. Bilal Alchalabi	École de Technologie Supérieure (ÉTS) Canada
	13:00-13:20	Placing and Docking Medical Devices Using Mixed Reality	Jafar Hamad, Vincinzo Ferrari	University of Pisa Italy
	13:20-13:40	Designing and Implementing a Digital Checklist System for Evaluating Infection Control Measures in Intensive Care Units	Dr. Khder Aboissa	Tishreen University Syria
	13:40-14:00	Highly Efficient Power Supply Systems for Medical Technology	Yakimovich B.A, Kuvshinov V.V., Bereznyak V.A, Al-Rufaae F.M.	Sevastopol state university Russia
Coffee Break	14:00-14:20	Coffee Break		
Chair person: Dr. Hani Amasha, Moderators: Dr. Mamdouh mounif, Dr. Samer Mohsen				
Biomedical Engineering and Audiology	14:20-14:50	A Primary Prediction of Brain Activity in Idiopathic Tinnitus Based on a Machine Learning Application	Dr. Samer Mohsen	Damascus university Syria
	14:50-15:10	Classification of Voice Disorders	Dr. Taouli Sidiahmed	University Aboubekr-Belkaid Algeria
	15:10-15:30	Simulating An Implantable Artificial Auditory Helix for The Treatment of Sensorineural Hearing Loss	Nada Hedar, Hani amasha, Lamis Kodsi	Tishreen University Syria



ICBME

International Conference
of Biomedical Engineering

Organized by the Mechanical and Electrical Engineering Faculty at Damascus University, **the International Conference** will be held under the patronage of the Minister of Higher Education and Scientific Research.

موبايل 0944 213131 هاتف 011 3312123
E-mail: syrianmedicare1@gmail.com
www.syrianmedicare.com



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المتحدة
للمعارض والمؤتمرات الدولية
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Supporting entities



+963 955 597 655



icbme@damascusuniversity.edu.sy



icbme.damas@gmail.com



damascusuniversity.edu.sy/icbme2024



@ICBME.Damascus