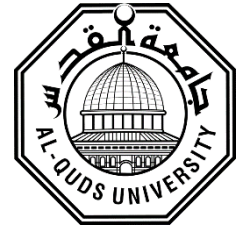




# ICPET



## 2020 International Conference on Promising Electronic Technologies

Al-Quds University - Jerusalem, Palestine 16-17 December 2020

### First Day- Wednesday 16 December 2020

**Opening Ceremony – Arabic Poetry Hall – Al-Quds University Main Campus**

Moderator: Dr. Elham Kateeb

Time	Title
8:30 – 9:00	Registration
9:00 – 9:05	Holy Quran & Palestinian National Anthem
9:05 – 9:10	Speech by the representative of higher council for innovation and excellence
9:10 – 9:15	Speech by the conference co-chair from Al-Quds University – Jerusalem, Palestine
9:15 – 9:20	Speech by conference chair from Palestine Technical College – Deir El-Balah
9:20 – 9:25	Speech by the dean of the Palestine Technical College - Deir El-Balah
9:25 – 9:30	Speech by the president of Al-Quds University
9:30 – 9:35	Speech by the president of PALAST, minister of education
9:35 – 9:40	Speech by the minister of higher education and scientific research
9:40 – 9:50	Break

### Panel Session - Main Hall

Time	Title	Speakers
9:50 – 10:20	Launching session of the Palestinian Communications and Informatics Society (PCIS)	<b>Dr. Ayman Al Haj Daoud</b> PGSB & PQSB Coordinator for Palestine, Palestine Academy for Science and Technology (PALAST)  <b>Dr. Ashraf Al-Rimawi</b> PCIS Chairman, Birzeit University - Palestine

### Keynote Talk I - Main Hall

Time	Title	Speaker
10:20 – 10:40	New Radio Interface Technologies: Recent Progress Made under 5G and New Directions Paving the Way Towards 6G	<b>Prof. Dr. Sofiène Affes</b> EMT Centre, INRS, Canada

## First Session: Technology in the COVID-19 Pandemic – Main Hall

Chairperson: Dr. Isam Ishaq

Time	Title	Authors
10:40 – 11:00	COVID-19 Detection from Chest X-ray scans using machine learning	Duaa Eljamassi and Ashraf Maghari
11:00 – 11:20	COVID-19 Detection in X-ray images Using CNN Algorithm	Areej Musleh and Ashraf Maghari
11:20 – 11:40	Challenges Faced by Palestinian Women in Electrical, Electronic and Computer Technology and Engineering During COVID-19 Crisis	Syuhaida Ismail, Nur Syazni Nazihah Kamal Baharin and Safa Nassereldin
11:40 – 12:45	Lunch Break	

## Second Session: IoT and Smart Systems – Main Hall

Chairperson: Dr. Ahmed Issa

Time	Title	Authors
12:45 – 13:05	Wireless Sensor Network for Traffic Monitoring	Mohammed Fadi Abdelhaq and Adnan Salman
13:05 – 13:25	Smart System to Avoid Car Accidents	Muhammed Saffarini, Rasha Saffarini and Isam Ishaq
13:25 – 13:45	Implementation of IoT for Sustainability of the Irrigation System	Rasha Assaf and Isam Ishaq
13:45 – 14:05	Cloud-based Internet of Things Approach for Smart Irrigation System	Thaer Thaher and Isam Ishaq
14:05 – 14:25	Online Monitoring Health Station Using Arduino Mobile	Eman Karajah and Isam Ishaq
14:25 – 14:40	Web-based Monitoring and Control of Poultry Farms in Gaza	Ezzaldeen Edwan, Mohammed Abu Qassem, Said Abu Al-Roos and Mohamed Elnaggar
14:40 – 15:00	Break	

## Third Session: Circuits and Communication Systems – Main Hall

Chairperson: Dr. Ezzaldeen Edwan

Time	Title	Authors
15:00 – 15:20	Generalized Space-Time Block Coded Quadrature Spatial Modulation	Mohammed Taha El Astal, Mohammed Mohareb and Ammar Abu-Hudrouss
15:20– 15:40	A Study of Low Complexity Antenna Selection Algorithms for Signed Quadrature Spatial Modulation	Ammar Abu-Hudrouss, Hassan Al Nahhal, Ibrahim Mousa and Khaled Issa
15:40 – 16:00	An Identifying Wavelet-Filtering Approach for Alarm Process Signals	Mariam Ramadan and Salaheddin Odeh
16:00 – 16:20	Design New Companding Scheme to Reduced PAPR for FBMC/OQAM in 5G Communication	Imad Shaheen and Abdelhalim Zekry
16:20 – 16:40	Ringing Test for Tow-Thomas Low-Pass Filters	Tri Tran, Anna Kuwana and Haruo Kobayashi

## Second Day – 17 December 2020

### Keynote Talk II - Main Hall

Time	Title	Speaker
9:00 – 9:20	Clinical Evaluation of Stretchable and Wearable Inkjet-Printed Strain Gauge Sensor for Respiratory Rate Monitoring	Prof. Ala'aldeen Al-Halhouli President of the Middle East University, Amman, Jordan

### Fourth Session: Machine Learning & Artificial Intelligence – Main Hall (Parallel Session with Fifth Session)

Chairperson: Prof. Samy Abu Naser

Time	Title	Authors
9:20 – 9:40	Data Mining Techniques in Identifying Factors Associated with Schoolchildren Science and Arts Academic Achievement	Radwan Qasrawi, Ziad Abdeen, Haneen Taweel, Mohammad Abu Younis and Diala Abu Alhalawa
9:40 – 10:00	Sentiment analysis of mobile phone product reviews using classification algorithms	Mohammed Salem and Ashraf Maghari
10:00 – 10:20	Sentiment Analysis of Arabic Tweets Using Supervised Machine Learning	Noor Bolbol and Ashraf Y. A. Maghari
10:20 – 10:40	Automatic Analytics Model for Learning Skills Analysis Using Game Player Data and Robotic Process Automation in a Serious Game for Education	Radwan Qasrawi, Malak Amro and Rashid Jayousi
10:40 – 11:20	Break	

### Fifth Session: Solar Cells, Materials and Energy – Second Hall (Parallel Session with Fourth Session)

Chairperson: Dr. Samy Shaat

Time	Title	Authors
9:20 – 9:40	Optical simulations of Graded Index Materials for solar cells model structure, TE case	Mohammed Shabat and Yousef Adwan
9:40 – 10:00	Antireflection Enhancement of Solar Cell Structure Based on Multi-type of Nanoparticles	Sahar Abuibaid, Mohammed Shabat and Hana Mousa
10:00 – 10:20	Periodic silicon nitride-metamaterials structure for enhanced solar cell efficiency	Houria Hamouche and Mohammed Shabat
10:20 – 10:40	Optimizing solar-thermal collector's angles to enhance useful energy gain	Mohamed Elnaggar, Hala El-Khozondar, Ezzaldeen Edwan, Rawan Abu Mutlaq, Ahmed Harb and Amir Awad
10:40 – 11:00	Theoretical Study of Propagation of Ballistic Electrons through multilayered Structure	Mohammed Shabat, Sara Al Khereibi and Muin Ubeid
11:00– 11:20	Break	

## Sixth Session: Cryptography, Routing Protocols, Privacy and Security – Main Hall

Chairperson: Dr. Radwan Qasrawi

Time	Title	Authors
11:20 – 11:40	Social Networking Sites: The Security Privacy Challenges	Amira Farah Abdul Rashid and Zarul Fitri Zaaba
11:40 – 12:00	Hybrid Cryptosystem Using Quasi Group and Chaotic Maps Applied on 1D Data	Heba Abughali and Mohammed Mikki
12:00 – 12:20	A Comprehensive Survey on Routing Protocols for Cognitive Radio-Based Disaster Response Networks	Khaled Fouzi Alaqad, M.A. Burhanuddin Bin Mohd and Norharyati Binti Harum
12:20 – 12:40	Traffic Aggregation in IP based WDM vs. IP based Elastic Optical Networks	Wajdi Halabi
12:40 – 13:40	Lunch Break	

## Seventh Session: Image Processing – Main Hall (Parallel Session with Eighth Session)

Chairperson: Dr. Rashid Jayousi

Time	Title	Authors
13:40 – 14:00	Computer-based Detection of Glaucoma Using Fundus Image Processing	Ahmed Ghorab, Mohammed Al-Rousan and Wisam Shihadeh
14:00 – 14:20	Color Harmony Classification using Machine Learning Algorithms	Heba Abughali and Faten Abushmmala
14:40 – 15:00	Break	

## Eighth Session: Developing Algorithms - Second Hall (Parallel Session with Seventh Session)

Chairperson: Dr. Suheir Harb

Time	Title and Authors	Authors
13:40 – 14:00	cJAYA: Cellular JAYA algorithm	Mohammed A. Awadallah, Mohammed Azmi Al-Betar and Iyad Abu Doush
14:00 – 14:20	Enhanced Genetic Algorithm for Optimized Classification	Thabit Sabbah
14:20 – 15:00	Break	

## Closing Ceremony – Main Hall

Time	Title
15:00 – 15:20	Recommendations of the Scientific Committee
15:20 – 15:40	Best Paper Awards Announcement