

12th Annual Undergraduate Research Conference on Applied Computing



PROGRAM OVERVIEW

#URC2020



Under the Patronage of
Her Excellency Noura bint Mohammed Al Kaabi
Minister of Culture and Knowledge Development
President of Zayed University



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Message from the Conference Chairs

Welcome to the 12th Annual Undergraduate Research Conference on Applied Computing (URC 2020). The objective of this conference is to promote undergraduate research activity at educational institutions across the Arab world and beyond, by providing a forum for undergraduate students to present their research projects, share ideas and interact with other young researchers, faculty members, and technology leaders from the region.

This year we have accepted 168 undergraduate research projects that represent 600 authors, who are primarily undergraduate students and their faculty advisors from 24 educational institutions in 7 countries, namely: Egypt, India, Kuwait, Oman, Palestine, Saudi Arabia, and the United Arab Emirates. The research projects have been accepted to be presented in live demos, lightning and poster presentation styles by undergraduate students, however, due to the on-going events concerning COVID-19 (Novel Coronavirus) and for the safety and health of everyone we have decided to move the conference online - each team will be provided with 5 minutes to present their project. The topics covered reflect the multidisciplinary character and wide spectrum of emerging technologies.

We would like to thank everyone involved in this conference. First and foremost, we thank the students and their faculty advisors for their submissions to this conference - without their research projects this conference wouldn't exist! We also thank the rest of our team, members of the organizing committee as well as the technical committee who reviewed all submissions and provided valuable feedback. We would also like to extend our special thanks to the keynote speakers, and members of the panel discussion, for taking the time out of their busy schedules to participate in this conference.

This year the conference introduced special track for full papers and ten papers have been accepted. The full papers will be published in IEEE Xplore.

We are grateful to our sponsor, Zayed University's Office of Research, for their continued commitment and contributions that help make this conference a reality. And, special thanks to Dr. Fatma Taher for her great efforts in securing IEEE as a technical sponsor.

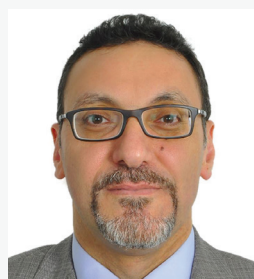
Finally, we take this opportunity to thank Zayed University for their continued support of this conference.

We hope you will enjoy the online conference.

Keep safe and healthy.



Dr. Hany El Kadi
Dean,
College of Tech Innovation
Zayed University, UAE



Dr. Qusay H. Mahmoud
Conference Co-Chair
Ontario Tech University,
Canada



Dr. Huwida Said
Conference Co-Chair
Zayed University, UAE



Dr. Omar AlFandi
Conference Co-Chair
Zayed University, UAE



Information for Online Conference Format

Due to the unfortunate events concerning COVID-19 (Novel Coronavirus) and for the safety and health of everyone we have decided to move the conference online. We will use Webex for a live video link for all conference sessions.

Students will present their research projects in 5 minutes in which they provide a snapshot of the work they have done – the problem they are trying to address, gaps or lack of existing solutions, their proposed solution, results and next steps.

All links for the live Webex events are provided below. To participate, please click on the link for the session in which you are presenting or interested in attending.

Each session will be hosted by a faculty member who will chair the session and moderate the presentations. And each meeting room will have a chat feature allowing participants to provide comments and ask questions.

Each paid participant will receive a certificate of attendance and a digital badge (micro credential).



Wednesday, April 15

9:45 – 10:00am Getting Ready

10:00am – 10:15am Opening Ceremony

Webex link: <https://zu-ae.webex.com/zu-ae/onstage/g.php?MTID=efc14bd0cbf5ccf9767ea8672f0f7d585>

Welcome Message

Zayed University

Welcome: Dr. Hany El Kadi

Dean, College of Technological Innovation

10:15am – 10:45am Keynote: H.E. Dr. Saeed Aldhaferi

Director, Center for Futures Studies, University of Dubai
Adjunct lecturer, Public Policy, MBRSG

10:45am – 11:30am Panel discussion (ICT and the Digital Economy)

Moderator: **Dr. Andrew Marrington**

Members: **Dr. May Al Taei, Eng. Omar M. Al Hashimi,
Mr. Ahmed A. Alkatheeri**

11:30am – 2:00pm Free time

See the detailed program for list of research projects and Webex links

2:00pm – 3:00pm Presentation Sessions A1, B1, C1

3:15pm – 4:15pm Presentation Sessions A2, B2, C2

4:30pm – 5:30pm Presentation Sessions A3, B3, C3



Thursday, April 16

9:45am - 10:00am Getting Ready

10:00am - 10:15am Welcome Message

Webex link: <https://zu-ae.webex.com/zu-ae/onstage/g.php?MTID=e0e549ea680cbdc4a343d1f1e38178a58>

10:30am - 12:00pm Special Track (Full Paper Presentations)

Webex link: <https://zu-ae.webex.com/zu-ae/onstage/g.php?MTID=e3f61787f68107c3a4dc96a1a69af1994>

See the detailed program for list of research projects and Webex links

2:00pm - 3:00pm Presentation Sessions D1, E1, G1

3:15pm - 4:15pm Presentation Sessions D2, E2, G2

4:30pm - 5:30pm Presentation Sessions D3, E3

6:00pm - 6:15pm Announcement of Best Presentations and Closing Remarks

Webex link: <https://zu-ae.webex.com/zu-ae/onstage/g.php?MTID=eeda8e5a13b0783f2427ff4992cf262d6>



Keynote Speakers



HE. Dr. Saeed Aldhaheri

Director, Center for Futures Studies, University of Dubai
Adjunct lecturer, Public Policy, MBRSG
Former Director General of Emirates Identity Authority

Linkedin: <https://ae.linkedin.com/pub/saeed-al-dhaheri/58/90/71a>
<http://www.slideshare.net/ddsaheed>

Twitter: @DDSaeed

Dr. Saeed is a well-known technologist, entrepreneur and speaker. He brings with him over 30 years of experience in academics, leadership and advisory roles in the public and private sectors in the UAE. He was the former Director General of Emirates Identity Authority and a former IT Advisor to the UAE Minister of Foreign Affairs. He has advised and consulted several UAE government organizations including Abu Dhabi Investment Authority (ADIA), The UAE Space Agency, Ministry of Interior and Ministry of Foreign Affairs in areas including smart government & smart city, digital innovation, and more recently on AI and blockchain projects. He is an author of Digital Nation: How the UAE is building a future based on tech innovation. A first-of-its-kind book on the unique journey of the UAE to build a future based on harnessing disruptive technologies such as artificial intelligence and driving digital innovation. He has led and participated in local and international assessment teams of several programs and awards including the GCC e-government award, Dubai Government Excellence Program (DGEP) and the UAE Drones and AI & Robotics for Good Awards. Dr. Saeed has earned his PhD in biomedical Engineering from Drexel University, Philadelphia, USA in 1994. He is currently serving as Chairman of the board of Smartworld, a joint venture between Etisalat and Dubai World Central (DWC), established in 2008 as a digital ICT service provider. Also, he is the Director of the Center for Futures Studies at the university of Dubai and an adjunct lecturer of Public Policy – Science & Technology track at the MBRSG. He is a part time advisor of Digital Trust at PwC ME. Dr. Saeed is on technology advisory boards of several universities in the UAE. He enjoys speaking about future foresight and the new disruptive technologies and their impact on business and society.



Panel Members

Panel Discussion: ICT and the Digital Economy



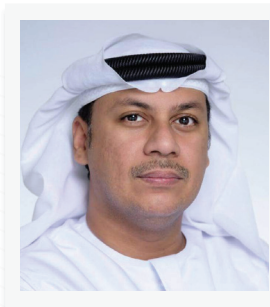
Dr. Andrew Marrington

Dr. Andrew Marrington is an Associate Professor and the Associate Dean of the College of Technological Innovation at Zayed University. At Zayed University, Dr. Marrington teaches digital forensics at the undergraduate and graduate level. Dr. Marrington received his PhD in digital forensics from Queensland University of Technology (QUT), where he studied at the Information Security Institute. Dr. Marrington's primary field of research is digital forensics, although he is also interested in other aspects of information security, and in the security and investigative implications of emerging technologies. He serves on the program committees of various conferences and workshops in digital forensics and information security, and on the editorial boards of several journals in the same field. He has also edited, with his colleagues Dr Don Kerr and Dr John Gammack, a book of peer-reviewed chapters about the security issues associated with wearable technologies.



Dr. May Al Taei

Dr. May Al Taei is with the Abu Dhabi School of Government. Previously, she was the Assistant Dean of Research and Graduate Studies at Zayed University. May received her PhD in Knowledge Management from the University of Birmingham (UK), and she also completed her Masters degree in Management Sciences from the University of Bath (UK). Dr. Al Taei received the Sheikh Rashed Award for Scientific Outstanding and two of Zayed University's highest honors; membership in the Sheikha Fatima Honor Society and the ATHENA leadership award.



Eng. Omar Mohammed Al Hashimi

Eng. Omar Mohammed Al Hashimi is a Director of Knowledge Management and Innovation Department at the Municipality of Abu Dhabi City, UAE. In 2008, he took a position as Director of Municipal Service Project Management. During the 2005-2008, he was Director of the Municipal Service Division.



Mr. Ahmed Arfan Alkatheeri

Mr. Ahmed Arfan Alkatheeri is the Service Delivery Manager at Etihad Airways. He works in the airline industry for mobile application service delivery. He is certified in SAFe 5.0 Agilist, Associate Project Management, support innovation adoption, interest on machine learning and data scientist.



Presentations Schedule

Wednesday, April 15

2:00 – 3:00pm

Session A1: Chair (Dr. Hussein Fakhry), **Evaluators** (Dr. Basel Almourad and Dr. Sanaa Kaddoura)

Webex link: <https://zu-ae.webex.com/zu-ae/onstage/g.php?MTID=e3acd61ca824a4022670201654ceff25e>

Paper#	Title	Author(s)	University	Country
8	Tangible Media Table	Huwaida Al-Shammari, Fay Al-Azmi, Mariam Taqi and Najeebah Al-Attar	American University of Kuwait	Kuwait
10	Proposing A Secure Database Warehousing System for UAE K-12 Schools	Masood Almansoori, Sand Adwan, Aref Albanna and Abdallah Tubaishat	Zayed University	UAE
12	WeCare The Ultimate Assistant for Elderly and Caregivers	Rand Altalhi, Muna Althawab, Norah Alotaibi, Nora Alotaibi and Fatima Rahal	King Saud University	KSA
13	Smart Rehabilitation Device for Neck Injuries	Habeba Sarwat, Mohammed Abduljawad and Mohammed Osama	Ajman University	UAE
14	“ASMEANY”: AN ANDRIOD APPLICATION FOR DEAF AND HEARING-IMPAIRED PEOPLE	Samar Zaid and Reem Alsulami	King Abdulaziz University	KSA
16	Eye Tracking Glasses For ADHD Patients	Asma Almasharqah, Khaled Mahfouz, Marah Nasry, Batoul Andoura and Lama Kasem	Ajman University	UAE
17	Najat: IoT Based Vehicle Accident Detection and Alert System	Laila Alqahtani, Ghadi Alowaimer, Alanoud Alangari, Ghalia Altuwaijri and Nouf Alown	King Saud University	KSA
19	Smart Two-Way Communication System for the Hearing-Impaired	Mohamed M. Abduljawad, Mohammed O. Elnour, Youssef M. El Sonbaty, Mustahsan Mir and Wessam Shehieb	Ajman University	UAE
20	Juice Mixing Machine	Farah Almjali, Ahmad Al-Abdulrazaq, Alaa Oqlah and Maryam Al-Humoud	American University of Kuwait	Kuwait
27	Emergency Planning for UAV Controlled Crowd Evacuations	Deem Alyami, Razan Almousa, Aziza Alsubki and Ebtessam Bin Ghafra	King Saud University	KSA



Wednesday, April 15

2:00 – 3:00pm

Session B1: Chair (Dr. Fatma OUTAY), **Evaluators** (Dr. Safa Otoum and Dr. Sinan Salman)

Webex link: <https://zu-ae.webex.com/zu-ae/onstage/g.php?MTID=eb58ce9ddf8db8f397ab4fd786493bb9>

Paper#	Title	Author(s)	University	Country
28	RAZI : An Augmented Reality Application Designed to Assist Arabic-speaking Children in Learning Human Biology Using Gamification	Alanoud Alzkeri, Latifa Alsagaby, Nouf Aldueb, Nourah Alhassan and Reem Alharthi	King Saud University	KSA
29	Mama's Shop & Recipes	Amal Mohammed, Alyazia Saif and Moza Seif	Zayed University	UAE
30	Face Recognition in Autism Spectrum Disorders: Improving Learning Engagement	Sadeem Aljubair, Dalal Aldayel, Renad Alsaleh, Hind Alfauzan, Sara Alsanea and Raghad Alomar	Princess Nora Bin Abdulrahman University	KSA
31	Yusser: Mobile Application	Ajwan Alshaye, Asma Binatee, Atheer Alfuraydi, Hissah Alsedais and Shahad Alsuhaim	King Saud University	KSA
32	Maghna: Smart Home Based On Speech Recognition Technology	Razan Alsughayer, Sarah Almunif, Fahda Alromi, Rania Bin Khunin and Reem Almaziad	King Saud University	KSA
33	Pothole Detection System	Arwa Aljohani, Hessah Al-Mansour, Wafa Al-Askar, Alanoud Al-Dokhi and Shahad Al-Saqabi	King Saud University	KSA
38	Metaheuristics for the Classification of Medical Data	Nourah Alhelal, Shatha Alduheshi, Fatimah Alkhamees, Reem Binghamnam, Raghad Alsuhailani and Sarab Almuhaideb	King Saud University	KSA
39	Radar-Based Vocal Cords Rehabilitation Monitoring System	Abdelhadi Hamed, Yousef Ahmed, Radwan Ammar, Khalid Loutfi, Ayman Tawfik and Wessam Shehieb	Ajman University	UAE
40	Seeker: Marketplace for Freelancers	Raghad Almatrodi, Reema Abuabat, Jumana Alsabi, Hind Alshubaili and Noura Alsabr	King Saud University	KSA
41	Sights Tourism iOS Mobile Application in Riyadh using AR and Location-Based Notification	Lina Alkhodair, Noura Alzamil, Rahaf Alzamil, Shahad Alhanaya and Maymona Hamami	King Saud University	KSA



Wednesday, April 15

2:00 – 3:00pm

Session C1: Chair (Dr. Mohammed Hussain), **Evaluators** (Dr. Mohamad Badra and Dr. Ahmed Shuhaiber)

Webex link: <https://zu-ae.webex.com/zu-ae/onstage/g.php?MTID=ea888349f9915f72a160e4847a820fe4d>

Paper#	Title	Author(s)	University	Country
42	Shurfa: Neighborhood Analytics and Social Networking Mobile Application	Bayan Alarifi, Albtool Alkhudiry, Aljauhara Aldamigh, Aljohara Alrshaid, Lama Alqasem and Raghad Aloliwi	King Saud University	KSA
43	Automatic Detection of Cyberbullying in Social Media Content	Alanoud Alhakbani, Abeer Alessa, Elaf Almahmoud and Hebah Alshamlan	King Saud University	KSA
44	Code Smell Detection Using Deep Learning	Rana Abdelhamid	The British University in Egypt	Egypt
45	Multipath Routing in SDN Using Machine Learning	Younis Moahmed	The British University in Egypt	Egypt
46	Lustre: Platform to Connect Individuals with Programs that Fit Their Lifestyle	Anoud Alsubaie, Ghaida Alanazi, Lama Alshabib, Raghad Alfahid and Shahad Almojaly	King Saud University	KSA
47	Automatic Detection of Guns Using Deep Convolutional Neural Network	Rana Alaqil, Jaida Alsuhaibani, Raghad Alnasser, Batool Alhumaidi and Rahaf Alotaibi	King Saud University	KSA
48	CBT Story Editor for Mental Health	Toka Ahmed Saad and Gerard McKee	The British University in Egypt	Egypt
49	Manar: An Arabic Game-based Application Aimed for Teaching Cybersecurity using Image Processing	Moneera Alfulaij, Lulu Altamran, Tarfa Almuneef, Asma Alotaibi and Majd Almalki	King Saud University	KSA
51	Trusted Reviews: Applying Blockchain Technology to Achieve Trusted Reviewing Systems	Jood Alanzy, Ghadah Alhudhayf, Jude Altalhi, Shahad Alghunaim and Shahad Alnasser	King Saud University	KSA
53	Little Chemist: AR Chemistry	Noura Alkanhal, Esraa Alhashmi, Ruba Alkhateeb and Sarah Alsarami	King Saud University	KSA



Wednesday, April 15

3:15 – 4:15pm

Session A2: Chair (Dr. Hussein Fakhry), **Evaluators** (Mrs. Liza Ahmed and Dr. Afshan Parkar)

Webex link: <https://zu-ae.webex.com/zu-ae/onstage/g.php?MTID=e8c6784d19c4f7386e1b7d844ef0767a1>

Paper#	Title	Author(s)	University	Country
54	Crypto-Cargo: Blockchain-Powered Smart Shipping Container	Abduraouf Hassan, Omar Alkhoori and Omar Almansoori	Khalifa University	UAE
55	Jasour: A Virtual Reality Application using Neurofeedback to Enhance Publiisk Speaking Skills	Sadeem Alzmami, Sarah Alothman, Amani Alqahtani, Raghad Almanea and Maha Almojil	King Saud University	KSA
56	Talaqah: Naming Therapy Application	Muhailah Alsahali, Atheer Alghannam, Haneen Alsuhaibani, Rawan Almajed and Horiah Alhazzani	King Saud University	KSA
58	Ankle Rehabilitation Device	Mohammed Anwar, Abdulrahman Abdulghani and Mohamad Agam	Ajman University	UAE
60	ARABIC TEXT CLASSIFICATION OF NEWS ARTICLES USING CLASSICAL AND DEEP LEARNING CLASSIFIERS	Ashraf Elnagar, Leen Al Qadi, Hozayfa El Rifai and Safa Obaid	University of Sharjah	UAE
62	Augmented Reality Game-Based Learning Application	Shaden Al-Romi, Asma Al-Judaya, Raghad Al-Khudair, Reem Al-Malki and Nouf Al-Yousef	King Saud University	KSA
64	Smart Detection of Phishing Attacks in HTML Emails	Yomna Hamdoun, Bassem Mokhtar and Mulhim Al-Doori	University of Fujairah	UAE
68	Hackwati: Children Story Application	Raghad Alshaalan, Asma Aljudaya, Ghedaa Alajaji, Fatimah Alqahtani and Shaden Alromi	King Saud University	KSA
70	You Are Not Alone	Nouf Alsuhaymi, Sara Alnasser, Abeer Almuhaiddib, Madawi Alruwaished, Najla Alosaimi and Nouf Bin Slimah	King Saud University	KSA
75	Where is my kid: Tracking and Monitoring System Framework	Hajar Hilal and Ahed Abugabah	Zayed University	UAE



Wednesday, April 15

3:15 – 4:15pm

Session B2: Chair (Dr. Fatma OUTAY), **Evaluators** (Dr. Andrew Leonce and Dr. Saiqa Aleem)

Webex link: <https://zu-ae.webex.com/zu-ae/onstage/g.php?MTID=e60b7351c59d8f479fee607e8b3d5c765>

Paper#	Title	Author(s)	University	Country
77	Smart 3D Printed Budget Oriented and Scalable Explorer Rover	Omar Alnuaimi, Hamad Mohamed, Abdulla Al Muthanna, Dr. Mohammed Saleh, Mahmoud Qasaymeh, Adnan Abdalla, Amira Al-Aamri and Abdalla Alzarooni	HCT Sharjah	UAE
79	Demonstration of Possible Attacks on Windows 10	Amna Ahmed Hasan Mohamed Almansoori and Dr. Sanaa Kaddoura	Zayed University	UAE
80	Travel Ravel	Dr.Hend Al-Rasheed, Arwa Al-Zeer, Arwa Al-Huwaimel, Nora Al-Shameri and Aisha Al-Thyabi	King Saud University	KSA
83	Yohka: Arabic Augmented Reality-Based Storybook for Children with Autism	Nouf Alduaifi, Ghadah Alnafisi, Layan Aljowair, Raghad Alhumood and Leena Alotaibi	King Saud University	KSA
84	Aircom: New Application for Monitoring Indoor Air Quality Based on Internet of Things (IoT)	Rasha Shakir Abdulwahhab, Amira Ali Al-Fazari and Mahra Said Ahmed Al-Risi	College of Applied Sciences-Sohar	Oman
85	Smart Monitoring System for Home Energy Consumption (SMEC)	Rasha Abdulwahhab, Yusuf Ibrahim Khabbush and Ahmed Abdulsalam	College of Applied Sciences-Sohar	Oman
88	Understanding Zero Trust Architecture for Network Security	Rawda Khaled, Dr. Ahmad Wazan, Maitha Alshehhi, Rasha Maarouf and Kadhim Hayawi	Zayed University	UAE
92	Be Safe Application	Hawwaa Abu-Bakr, Arwa Al-Huthali, Elaf Al-Harbi, Shahad Qary, Basma Al-Hatani and Areej Al-Fraih	Umm Al-Qura University	KSA
94	Energy Consumption Mobile Application for Optimum Use of Power	Israa Gadi and Maryam Bahmaid	King Abdulaziz University	KSA
95	Exoskeleton Arm	Yara Badr, Kathrina Baguyo and Yara Tulbah	Ajman University	UAE



Wednesday, April 15

3:15 – 4:15pm

Session C2: Chair (Dr. Mohammed Hussain), **Evaluators** (Dr. Mathew Nicho and Dr. Mohammed Hussain)

Webex link: <https://zu-ae.webex.com/zu-ae/onstage/g.php?MTID=ec0e1865ac2d74c2d27f02c2d8117cddb>

Paper#	Title	Author(s)	University	Country
96	Hotel Smart-Card System	Maha Alaskar, Hind F. Alaskar and Salma Alkhalaf	Prince Sultan University	KSA
97	Smart Guidance: Mobile Application for Tourism	Ahlam Ali, Haya Alharthi and Renad Almeahmadi	King Abdulaziz University	KSA
98	Eyesight Tests and Lazy Eye Exercise by Using VR -Mobile Application	Maram Alshehri, Amjad Alorfi and Hanoof Alasiri	King Abdulaziz University	KSA
99	Highway Animal Detection System	Abdullatif Alshajajeer, Abdulaziz Althani and Mohammed Aldandan	King Faisal University	KSA
101	QUES: Quality Estimation of Arabic to English Translation	Anfal Alatawi, Bayader Alsahafi and Najwa Noorwali	King Abdulaziz University	KSA
103	Wasl: Arabic Speech Recognition And Transcription	Shahad, Wafa and Ameera	King Abdulaziz University	KSA
105	Augmented Reality based Learning Platform for Digital Hardware	Razan Elwan, Mona Albluwi and Arwa Alomaireen	King Faisal University	KSA
108	The Influence of Music on Attention Disorders - An EOG Based Approach	Noor Ali, Amna Abdulmoneim, Eman Abushaban and Alaa Ibrahim	Ajman University	UAE
109	Detect Depression on Arabic Tweets	Amal Alghamdi, Fatima Alaidarous and Lama Baabdullah	King Abdulaziz University	KSA
110	Hardware/Software Codesign Using an Open-Source Authentication Algorithm	Ashraf Zaher, Haseeb Rahman and Saadoun Al-Bader	American University of Kuwait	Kuwait



Wednesday, April 15

4:30 – 5:30pm

Session A3: Chair (Dr. Hussein Fakhry), **Evaluators** (Dr. Maurice Danaher and Dr. Erik Thornquist)

Webex link: <https://zu-ae.webex.com/zu-ae/onstage/g.php?MTID=ec69468b83adb47a4f73f0b152c08356>

Paper#	Title	Author(s)	University	Country
111	Solar-Powered IOT Irrigation System	Ali Bostani, Khalifeh Alotaibi, Sara Alhasawi, Amani Alharbi and Talal Allanqawi	American University of Kuwait	Kuwait
112	RF Intensity Indicator	Ali Bostani, Dalal Al-Junaidel, Nourah Al Adwani, Ghaneemah Al-Fajji and Aseel Rashed	American University of Kuwait	Kuwait
114	Similar Verses of the Holy Quran (Mutashabihat)	Lamya Alzomai, Atheer Alqahtani, Anfal Alharbi and Heyam Aljaser	King Saud University	KSA
117	Be Volunteer: Volunteering Platform for Volunteering Opportunities and Skills Development	Amaal Alotaibi, Shahad Alazeb and Fatimah Alnashmi	Saudi Electronic University	KSA
118	Preventing Road Accidents by Controlling Vehicle Speeds Using RFID Technology	Mariyah Alsaleem, Teflah Al-Ajmi, Batool Al-Shakhouri and Sarah Al-Bahrani	King Faisal University	KSA
119	Detection of Plants Leaves Diseases	Rawan Alsultan, Dalal Albdah, Ghaliah Almulhim and Norah Alshaikhmubarak	King Faisal University	KSA
121	Sleep Apnea Detection Device using IoT	Shahed Hilal, Mona Mammdoh, Mariem Mohamed and Safana Saeed	Ajman University	UAE
124	The Smart Box of Children's Vaccinations	Albandry Alqaseemi, Amjad Alasmari and Elham Alqarni	King Faisal University	KSA
125	A Game Mobile based Application with AI Agent for Children with Autism Spectrum Disorder (Not Alone)	Ghada Alogaiel, Mona Alfayyadh and Albandery Aldossary	King Saud University	KSA
126	Easy Archive: Handwritten Digit Recognition Using Deep Learning	Raghad Alqahtani, Abrar Alkaf and Shoug Alafif	King Abdulaziz University	KSA



Wednesday, April 15

4:30 – 5:30pm

Session B3: Chair (Dr. Fatma OUTAY), **Evaluators** (Dr. Abdallah Tubaishat and Mrs. Liza Ahmed)

Webex link: <https://zu-ae.webex.com/zu-ae/onstage/g.php?MTID=ec64d17c61a30b776dd90b59a4f3542c>

Paper#	Title	Author(s)	University	Country
127	SMART SHOES	Nahedh Alkhaldi, Ahmed Alomair, Ammar Alnaeem and Mohammed Al-Naeem	King Faisal University	KSA
128	Automatic Information Extraction from Unstructured Mammogram Reports	Lama Baabdullah, Amal Alghamdi and Fatima Alaidarous	King Abdulaziz University	KSA
131	Automated Breast Cancer Classification Model For Saudi Mammograms	Israa Alwah, Reem Alsulami and Nehad Alnahari	King Abdulaziz University	KSA
132	Automated Detection of Distracted Driver - Cell-Phone Usage Detection	Amal Balubaid, Areej Altaban and Maram Albsisi	King Abdulaziz University	KSA
133	Teryaq: Medications Reminder Application Designed-based User Experience for Elderly Usage	Amal Balubaid, Areej Altaban and Lina Bahmdean	King Abdulaziz University	KSA
135	BookIt (Android Based Cab Booking Application with Sentiment analysis)	Seema Neloufer and Heba Fatima	Birla Institute of Technology RAK	UAE
136	Understanding Knee MRI Scans: Salient Region Detection and Automatic Report Generation	Amr Ramadan, Ismail El Yamany, Khaled Mohab, Abdelrahman Wael, Ahmed Ibrahim and Mohamed El Gharawy	Alexandria University	Egypt
137	Smart Mailing System: Using Technology to Improve User Experience in Delivery of Packages	Samahir Bantan, Afrah Al-Harbi and Shorooq Al-Qahtani	King Abdulaziz University	KSA
138	Sickle Cell Anemia: Estimation of Treatment	Nourah Alharbi, Rana Bameer and Shahad Geddan	King Abdulaziz University	KSA
141	User Experience Beyond Validation Medical Report-based Image Processing	Rahaf Alsulami, Mona Alhaqqas, Shahad Tayeb, Raghad Alsulami and Reem Alnanih	King Abdulaziz University	KSA



Wednesday, April 15

4:30 – 5:30pm

Session C3: Chair (Dr. Mohammed Hussain), **Evaluators** (Dr. Mohammed Hussain and Dr. Andrew Leonce)

Webex link: <https://zu-ae.webex.com/zu-ae/onstage/g.php?MTID=ed87d8894cdc597d24756ed74823b17c>

Paper#	Title	Author(s)	University	Country
142	School Bus Tracking System using NFC	Selamawit Weldegebriel and Yordanos Mengesteab	Zayed University	UAE
143	Planteer: Jeddah Plant Gardening Using Intelligent and Gamified Application	Sara Al-Sanaani, Rana Sandouka, Lina Bahmdean and Arwa Al-Linjawi	King Abdulaziz University	KSA
145	Lifetime Healthcare Support in Beta Thalassemia Using Expert System with QR Code	Asma Alshamrani, Ghaidaa Almouhana and Hanadi Almutiry	King Abdulaziz University	KSA
146	iCare: an Interactive Application to Share Medical Equipment	Amal Balubaid, Lama Baabdullah, Sara Alsanaani and Nehad Alnahari	King Abdulaziz University	KSA
147	Adaptive Food Recommendation System for Healthy Living	Raghad Nakshou, Maha Ali Al-Edresi, Sabah Al-Zahrani and Nauman Qureshi	King Faisal University	KSA
148	Adaptive Fall Detection System using Pose Estimation	Arwa Hussain Alali, Shaima Khalid Alkhudair, Esraa Abdulmohsen Alshareet and Nauman Qureshi	King Faisal University	KSA
165	AIBA Chatbot Usable AI for College of Applied Sciences	Asia Al-Sinani and Bayan Al-Saidi	College of Applied Sciences-Sohar	Oman
166	IoT based Smart Refrigerator	Hend Al.Badaai and Maria Al.Hashmi	College of Applied Sciences-Sohar	Oman
174	A Smart Locker System Using Face Recognition	Fatmah Alfahid, Lama Alfalah and Malak Alsumail	King Faisal University	KSA
178	Jamarat Area Evacuation Plan using Crowd Simulation	Amal Alzuhair, Hessa Alsweed, Noor Almoqayyad, Dana Alotaibi and Razan Albaqmi	King Saud University	KSA



Special Track

Thursday, April 16

10:30am – 12:00pm

Session ST: Chair (Dr. Fatna Belqasmi)

Webex link: <https://zu-ae.webex.com/zu-ae/onstage/g.php?MTID=e3f61787f68107c3a4dc96a1a69af1994>

Paper#	Title	Author(s)	University	Country
2	A Decentralized Autonomous Ecosystem for Peer-To-Peer Clean Energy Trade	Hadi El Baba, Alaa Derhem, Hayaat Al-Hindwan and Vinod Pangracious	American University in Dubai	UAE
3	Voltage Producing Smart Wheelchair	Tanjir Arafat, Md Anisur Zaman and Mohammad Monirujjaman Khan	North South University	Bangladesh
86	Should We Rush to Implement Password-less Single Factor FIDO2 based Authentication?	Fatima Alqubaisi, Ahmad Samer Wazan, Liza Ahmad and David W Chadwick	Zayed University	UAE
116	Suitability of Blockchain for Collaborative Intrusion Detection Systems	Nahom Aron Dawit, Sujith Samuel Mathew and Kadhim Hayawi	Zayed University	UAE
122	Hybrid Three-Dimensional Thermal Aware Design Methodologies For Multiprocessor Systems	Serena Youssef Youssef and Vinod Pangracious	American University in Dubai	UAE
172	Smart Technologies for Visually Impaired: Assisting and Conquering infirmity of the blind people using AI Technologies	Faizal Hajamohideen, Fatma Muhammad Salim Al- Muqbali, Noura Abdullah Said Al-Tourshi and Khuloud Rashid Salim Al-Kiyumi	College of Applied Sciences-Sohar	Oman
175	Security Vulnerabilities Detected in Medical Devices	Aamna Alsuwaidi, Amna Hassan, Fatema Alkhatiri, Hana Ali, Mohammad Qbea'H and Saed Alrabaaee	UAE University	UAE
176	Discovering Public Wi-Fi Vulnerabilities Using Raspberry pi and Kali Linux	Eiman Al Neyadi, Shaima Al Shehhi, Ameera Al Shehhi, Mohammad Qbea'H and Saed Alrabaaee	UAE University	UAE
185	UniBud: A Virtual Academic Adviser	Abdulrahman Alkhoori, Mohammad Amin Kuhail and Abdulla Alkhoori	Zayed University	UAE
189	A WUSN-based Smart System for Water Flow Control	Nahom Aron, Bereket Yemane, Temesgen Mikael, Reem Salem and Fatna Belqasmi	Zayed University	UAE



Presentations Schedule

Thursday, April 16

2:00 – 3:00pm

Session D1: Chair (Dr. Ouns Bouacchir), **Evaluators** (Dr. Zakaria Maamar and Miss Muna Bader)

Webex link: <https://zu-ae.webex.com/zu-ae/onstage/g.php?MTID=e91b7311021fbce22ecec5d60acd469e7>

Paper#	Title	Author(s)	University	Country
182	Emergency Case Prediction for 9-1-1 Emergency Number Services using Machine Learning	Fatimah Bugshan, Raghad Abdulaal and Alanoud Alzahrani	King Abdulaziz University	KSA
183	Keep It: A Warranties Management System	Shaden Alosaimi, Maram Aldajani and Bshayer Almalki	King Saud University	KSA
186	An Intelligent WSN-based System for School Bus Safety	Ahmed Al Shamsi, Malik Al Rashdi, Ahmed Fareed, Rashed Al Mansoori and Ahmed Al Ketbi	Zayed University	UAE
188	trackBite: An Intelligent Food Expiration Tracker	Hiba Ilyas, Mahnoor Siddiqui, Sadaf Mahmood and Tanzila Saba	Prince Sultan University	KSA
190	Uknow: Augmented Reality Based Tourism Application To Enhance the Experience of Historical Jeddah Visitors	Samar Osailan, Raghad Aljedani and Hwazn Alzara	King Abdulaziz University	KSA
193	Security Accessing Control using BCI	Najoud Alkaabi, Reem Alblooshi and Shaikha Alsaadi	University of Science and Technology of Fujairah	UAE
194	Online Fitting Room: A Mobile Shopping Application using Augmented Reality (AR) Technology	Shrouk Atef	The British University in Egypt	Egypt
196	Smart Shopping Cart	Maryam Saber Ahmed Aldhanhani and Fatima Mohammad Ahmed Aldhanhani	University of Science and Technology of Fujairah	UAE
199	Detection of Cyber-Bullying Incidents on Social Network	Shams Atef	The British University in Egypt	Egypt
207	LoomoPology: An Anti-Bullying Robot	Miad Alqahtani, Shahad Bin Shuail, Latifah Alhwiseen, Sumayah Almazyad and Dr.Hebah Elgibreen	King Saud University	KSA



Thursday, April 16

2:00 – 3:00pm

Session E1: Chair (Dr. Emad Bataineh), **Evaluators** (Dr. Ahmad Samer Wazan and Dr. Andrew Leonce)

Webex link: <https://zu-ae.webex.com/zu-ae/onstage/g.php?MTID=e3098543c5764452d1b9a06dcf0a97247>

Paper#	Title	Author(s)	University	Country
209	Social Media News Analysis	Sara Aldakhilallah, Moudhi Alayadhi, Khulod Alzuhiri and Reem Alotaibi	King Saud University	KSA
210	INSTAURA: Makeup Secretary	Atheer Alqasim, Shatha Alswailem, Rawan Alshalhoub, Renad Alhosayen and Sarah Alkhodair	King Saud University	KSA
211	A WSN-based Smart System for Water Flow Monitoring	Nahom Aron Dawit, Bereket Yemane, Temesgen Mikae and Fatna Belqasmi	Zayed University	UAE
4	Upcycle Bot (re-sort)	Shaikhah Alhudaibi, Farah Edhbayah, Dalal Alqemlas and Shorouq Alzanki	American University of Kuwait	Kuwait
5	SkyBot: Window Washing Drone	Jumanah Sadeq and Amal Alhulaibi	American University of Kuwait	Kuwait
7	Beach Cleaner	Aisha Alfaiakawi, Mariam Aabedi, Alyaa Almatrouk and Banan Alsabah	American University of Kuwait	Kuwait
9	Self-Lawn Mower	Jawaher Shah, Alaa Alajmi, Lulwa Alwuqayan and Najd Alajmi	American University of Kuwait	Kuwait
11	Smart Charitable Fridge	Nora Alsanea and Lolwa Alsaleh	American University of Kuwait	Kuwait
21	The Impact of the Mastoid Bone Vibrations on Conductive Hearing Loss	Noor Ali, Amna Abdulmoneim, Eman Abushaban and Alaa Ibrahim	Ajman University	UAE
22	PTUK_Compass: Android-based Campus Navigation App	Sondos Jayousi, Yasmeen Abu Eid, Aya Rubo and Eman Draghami	Palestine Technical University	Palestine



Thursday, April 16

2:00 – 3:00pm

Session G1: Chair (Dr. Farkhund Iqbal), **Evaluators** (Dr. Saiqa Aleem and Mrs. Liza Ahmed)

Webex link: <https://zu-ae.webex.com/zu-ae/onstage/g.php?MTID=ea950b3cb0afbec55834b26ab4061513b>

Paper#	Title	Author(s)	University	Country
23	Book Box (B2): Andorid-based Mobile App for Books Exchange in PTUK Campus	Abeer Hijazi, Naela Raed, Zahwa Ziyad and Eman Draghmi	Palestine Technical University	Palestine
24	Plagiarism Detection for Software Systems	Dina Zekry	The British University in Egypt	Egypt
25	At Home Physiotherapy Guide	Engy Abdelkarim, Shahd Iraki, Shams Otair and Shahd Mohammed	Ajman University	UAE
26	Cardiac Emergency System for Car Drivers	Samaa Al-Lawindy, Sara Rakan and Maryam Reda	Ajman University	UAE
34	VGRIP – Virtual Reality in a GRIP	Hind W. Al-Jouhari and Alaa Al-Humaidan	American University of Kuwait	Kuwait
35	SWC: Smart Wheelchair Mobing by Head Motion and Voice Recognition	Sarah Al-Najjar, Raghad Ayesh, Noor Aldadah and Yasmine Banat	Ajman University	UAE
36	Self-Stabilizing bed	Adham Mahmoud, Ehab Soliman, Mobarak Borhamah and Bassema Zaidan	American University of Kuwait	Kuwait
37	Yumnak: An Arabic Instance Services Mobile Application	Kholoud Abudajene, Mzoon Alkadi, Mashaal Aleid, Maha Alqadeeb and Shahad Alhammad	King Saud University	KSA
52	SAYAR - An Arabic Application for Teaching Car Driving Regulations	Dana Alhaqbani, Amjad Algarej, Norah Alsubaie, Sarah Alqahtani and Najla Alharthi	King Saud University	KSA
57	Saleem:A Good Start to a Healthier and Happier Life	Fatimah Alqahtani	King Saud University	KSA



Thursday, April 16

3:15 – 4:15pm

Session D2: Chair (Dr. Ouns Bouacchir), **Evaluators** (Dr. Ons Al-Shamaileh and Dr. Abdallah Tubaishat)

Webex link: <https://zu-ae.webex.com/zu-ae/onstage/g.php?MTID=e20691bbbd74e00f3c8a7f35fc3d28c34>

Paper#	Title	Author(s)	University	Country
59	Otisma - Therapy Robot	Manar Atiyeh, Hania Al-Tabaa, Sarah Saad and Rayane Bouhali	American University of Kuwait	Kuwait
63	Indoor Navigation Guidance Using Sensor Fusion and Deep Learning-Based Object Recognition	Mohamed Adel and Doaa El-Zanfaly	The British University in Egypt	Egypt
65	Moean: Consultation Support System	Lulwa Aldawood, Ghada Alaasim, Njood Almainan, Raneem Aladhadh and Sarah Alnimer	King Saud University	KSA
66	EMS: Exam Management System	Saleh Alshamlan, Sami Al Zakari, Mohammed Al Aqil and Abdulaziz Al Saeed	King Saud University	KSA
67	My Health Buddy: Health Information Exchange Application	Bodour Althwnaian, Noura Albalaa, Haifa Almansour, Raghad Alnassar and Nouf Almedlej	King Saud University	KSA
71	Eye tracking in Autism Spectrum Disorders to Improve Learning Engagement	Fahima Hajjej	Princess Nora Bin Abdulrahman University	KSA
72	Development of An Application of Math Education for Autism Spectrum Child	Fahima Hajjej	Princess Nora Bin Abdulrahman University	KSA
73	ROBOBUDDY	Yazan Najem, Mai Moneem and Moayad Aloqaily	Al Ain University	UAE
74	The Land of Al-Isra	Dina Issa, Mathooba Ayoub and Eman Draghami	Palestine Technical University	Palestine
76	AI and Sentiment Analysis of Arabic Social Media Contents	Alya Yaqoub Al Ali, Dhabia Alshehhi, Shaikha Ahmed Al Ali, Mohammed Saleh, Thair Khmour, Mahmoud Qasaymeh and Omar Alnuaimi	HCT Sharjah	UAE



Thursday, April 16

3:15 – 4:15pm

Session E2: Chair (Dr. Emad Bataineh), **Evaluators** (Dr. Imran Junejo and Dr. Hassan Abdalla)

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Paper#	Title	Author(s)	University	Country
78	Swimming Pool Sensor	Yasmeen Hamdan, Shahad Munzer, Mariam Abdalla and Aisha Dahan	Ajman University	UAE
87	A Self-Driving Remote-Controlled Toy Car	Tiantong Yin	Heriot-Watt University Dubai	UAE
89	Detecting of People Abandon Objects in a Controlled Area using Computer Vision	Souad Nablsi, Amal Alshomrani, Jalilah Fallatah, Etizaz Alqurashi and Arwa Alqurashi	Umm Al-Qura University	KSA
100	Historical Inscriptions Translating Model	Lubabah Mujallid, Samar Alrashdi and Shada Bahassan	King Abdulaziz University	KSA
102	MyReceipt: A Mobile Application that Collects Receipts Automatically	Shahad Nidal, Nedaa Saleh and Hania Alhafiez	King Abdulaziz University	KSA
104	EYE KEYBOARD	Leen Alserhani, Yara Alzahrahi and Lamis Alsulami	King Abdulaziz University	KSA
106	Open Source Operating Systems and Their Importance for Education	Salma Alkhalaf and Fatima Alhamed	Prince Sultan University	KSA
107	HoloLearn - An Educational Tool	Shoroog Alghamdi, Layan Alsalea and Samar Aloufi	King Abdulaziz University	KSA
120	AgroLeap : Blockchain for Agricultural Supply Chain	Aseel Alshuaibi, Munirah Alamer, Shahad Almulhim and Maryam Al Shaykh Ahmed	King Faisal University	KSA
129	IGSS: Intelligent Garbage Sorting System	Omar Elmanshawy, Yousef Alkrod, Ayham Bnaian and Dr.Abdenour Bounsiar	King Faisal University	KSA



Thursday, April 16

3:15 – 4:15pm

Session G2: Chair (Dr. Farkhund Iqbal), **Evaluators** (Dr. Zakaria Maamar and Dr. Ahmed Samer Wazan)

Webex link: <https://zu-ae.webex.com/zu-ae/onstage/g.php?MTID=e3cdae28f8d3d33fba066ec8ca5dfaecd>

Paper#	Title	Author(s)	University	Country
130	TALAQAH: For Social Anxiety and Fluency Difficulties	Shatha Almoteb and Lujain Alharbi	King Abdulaziz University	KSA
134	Smart Supporting Materials Pool via Dual Factors Model	Amenah Al Mulla, Aisha Al Abdulqader and Gaida Al Moheish	King Faisal University	KSA
140	Personal Budget Assistant (PBA) By Tracking SMS	Ebtihal Alghamdi, Amsha Alharbi and Wafa Alrashidi	Saudi Electronic University	KSA
144	Roots in STEM	Tazeen Sharif	Ajman University	UAE
150	MedAccess: A Scalable Architecture for Blockchain-based Health Record Management	Mohammed Misbhaudhin, Abdulaziz Alabdulatheam, Mohammed Aloufi, Hussien Al-Hajji and Ahmad Alghuwainem	King Faisal University	KSA
151	KFU Auto Car Check-in System using the Internet of Things (IoT)	Abdulahdi Alsayafi, Abdullah Alharbi, Ali Al-Khamees and Abdulaziz Al Barrak	King Faisal University	KSA
152	Remote Assistant System at CAS-Sohar	Khulood Al-Shabibi and Intisar Al-Mamari	College of Applied Sciences-Sohar	Oman
153	Brain-Controlled Educational Gaming Using EEG and IoT	Al Reem Al Hediwi	College of Applied Sciences-Sohar	Oman
154	Custody and Stock Control Management System For CAS-Suhar	Amna Hassan and Wejdan Said	College of Applied Sciences-Sohar	Oman
156	IoT Liquid Water Monitoring System	Hajer Alsahhi, Khulood Almanwari and Farah Alblushi	College of Applied Sciences-Sohar	Oman



Thursday, April 16

4:30 - 5:30pm

Session D3: Chair (Dr. Ouns Bouacchir), **Evaluators** (Dr. Ons Al-Shamaileh and Dr. Imran Junejo)

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Paper#	Title	Author(s)	University	Country
201	Redesigning the BUE Network for Enhanced Smart Campus Service Delivery	Sarah Taha	The British University in Egypt	Egypt
202	Real-Time Traffic Sign Detection and Recognition	Ahmed Abdelhaleem and Walid Hussein	The British University in Egypt	Egypt
164	Electronic Parking System (E-Parking)	Shrooq Alsaadi and Hana Alsaadi	College of Applied Sciences-Sohar	Oman
168	Flood Detection and Warning using IR 4.0 - A Study on Oman Wadis (Water Streams)	Marwa Al-Aamri, Sheikha Al-Khamisi and Amna Al-Shibli	College of Applied Sciences-Sohar	Oman
171	Using Smart App for Student to Learn Sciences using Omani Cambridge Curriculum at Elementary School	Marwa Alhatmi, Azhaar Alsiyabi and Majda Alsalhi	College of Applied Sciences-Sohar	Oman
177	Palm Tree Monitoring System using Sensors	Ahood Al-Saadi, Esraa Ahmed and Elham Shaker	King Faisal University	KSA
179	Monitoring Public Health Data in Saudi Arabia	Nouf Alwasidi and Tanzila Saba	Prince Sultan University	KSA
181	Smart Vehicles: Online Prognosis for Vehicle Health Monitoring	Nishita Goyal, Sahil Garg, Manan Anand and Vibhu Goel	Bharati V. College of Engineering	India
184	Enhanced Vehicle Power Detection System	Shaikhah Alajmi, Asmaa Al-Madani, Aysha Al-Ali, Khawla Al-Madani, Dr.Muhammad Akmal Chaudhary and Engr. Khaled Mahfouz	Ajman University	UAE
187	E-Kutub: An Online Book Sharing Platform for Students	Hiba Ilyas and Tanzila Saba	Prince Sultan University	KSA



Thursday, April 16

4:30 - 5:30pm

Session E3: Chair (Dr. Farkhund Iqbal), **Evaluators** (Dr. Zakaria Maamar and Dr. Ahmed Samer Wazan)

Webex link: <https://zu-ae.webex.com/zu-ae/onstage/g.php?MTID=edf7b9ec8bdaf44d3489665dc4fbd610b>

Paper#	Title	Author(s)	University	Country
191	Hand Gesture Recognition using Image Processing and Deep Learning	Mahmoud Sami and Walid Hussein	British University in Egypt	Egypt
192	Stock Price Prediction using Sentiment Analysis over Twitter API	Abdelrahman Hindi and Dr. Doaa El-Zanfaly	British University in Egypt	Egypt
198	An Efficient Low Cost Automatic Built-in Surveillance System for Vehicle Speed Monitoring, Alerting and Finning	Hamda Abdullah Alblooshi, Aishah Abdulla Alsharqi and Bushra Salim Alzaabi	University of Science and Technology of Fujairah	UAE
200	A Zero-Ddelay Automatic Vehicle Accident Reporting and Emergency Call System	Saeed Mohamed Alzahmi, Osama Ahmad Alnablsi and Musaab Abdelrahman Gasmelbari	University of Science and Technology of Fujairah	UAE
157	Activities Form Tracking System (AFTS)	Sabah Aljaradi and Ahood Algaithi	College of Applied Sciences-Sohar	Oman
162	Baby Monitoring System	Amal Ali, Ranya Mohammed and Zuwaina Salim	College of Applied Sciences-Sohar	Oman
205	Smart BUE Campus Wireless Network for High Education Services Availability	Nadine Khalid	The British University in Egypt	Egypt
206	Improved Noise Reduction Technique and Radiologist-Level Pneumonia Detection on Chest X-Rays Imaging	Lames Khaled	The British University in Egypt	Egypt



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