



ENGINEERING COMMUNITY NEWS

Spring 2023| Issue 11



**UNIVERSITY OF SHARJAH
COLLEGE OF ENGINEERING
NEWSLETTER ISSUE 11**

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3. New Appointments and Promotions

5. College News and Activities

12. Architectural Engineering

16. Civil and Environmental Engineering

18. Electrical Engineering

**21. Industrial Engineering and
Engineering Management**

23. Mechanical and Nuclear Engineering

**25. Sustainable and Renewable Energy
Engineering**

College of Engineering

University of Sharjah

W9 & M9 Buildings

P.O. BOX 27272 Sharjah, UAE

<https://www.sharjah.ac.ae/en/academics/Colleges/eng/Pag>

New Appointments and Promotions

NEW APPOINTMENTS:



Dr. Ihsanullah Obaidullah
Assistant professor
Department of Mechanical
& Nuclear Engineering



Dr. Adewale Olalekan Giwa
Assistant professor
Department of Mechanical
& Nuclear Engineering

PROMOTIONS (January 2023):



Dr. Ismail Shahin
promoted to the rank of
Professor
Department of Electrical
Engineering



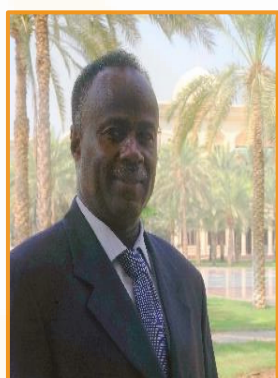
Dr. Khalid Hamad
promoted to the rank of
Professor
Department of Electrical
Engineering



Dr. Chaouki Ghenai promoted
to the rank of Professor
Department of Sustainable and
Renewable Energy Engineering



Dr. Bassam Khuwaileh
promoted to the rank of
Associate Professor
Department of
Mechanical & Nuclear
Engineering



Dr. Ali Ahmed Adam
promoted to the rank of
Associate Professor.
Department of Electrical
Engineering



Dr. Di Zhang promoted to the
rank of Associate Professor
Department of Sustainable
and Renewable Energy
Engineering



Dr. Reyhan Sabri
promoted to the rank of
Associate Professor
Department of
Architectural Engineering

New Appointments and Promotions

PROMOTIONS (June 2023):



Dr. Emad Mushtaha
promoted to the rank of
Professor
Department of
Architectural Engineering



Dr. Syarif Junaidi
promoted to the rank of
Professor
Department of
Mechanical & Nuclear
Engineering



Dr. Moussa Leblouba
promoted to the rank of
Professor.
Department of Civil and
Environmental
Engineering



Dr. Anwar Hasan Jarndal
promoted to the rank of
Professor
Department of Electrical
Engineering

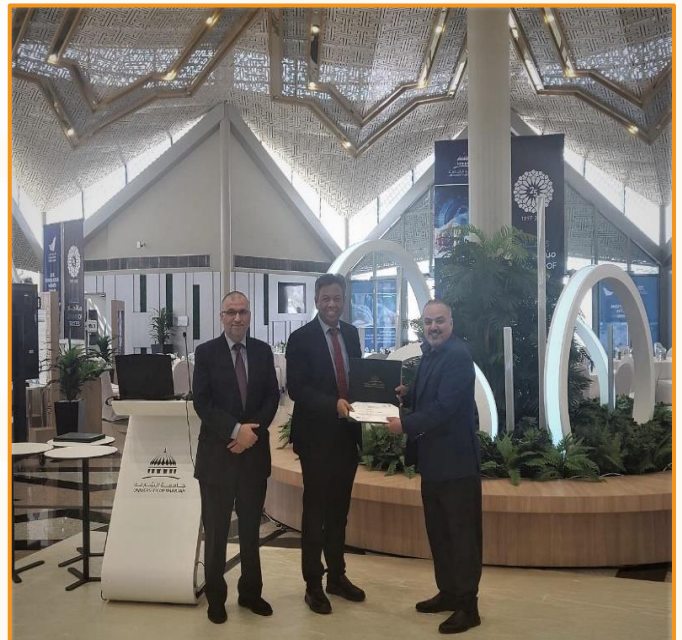
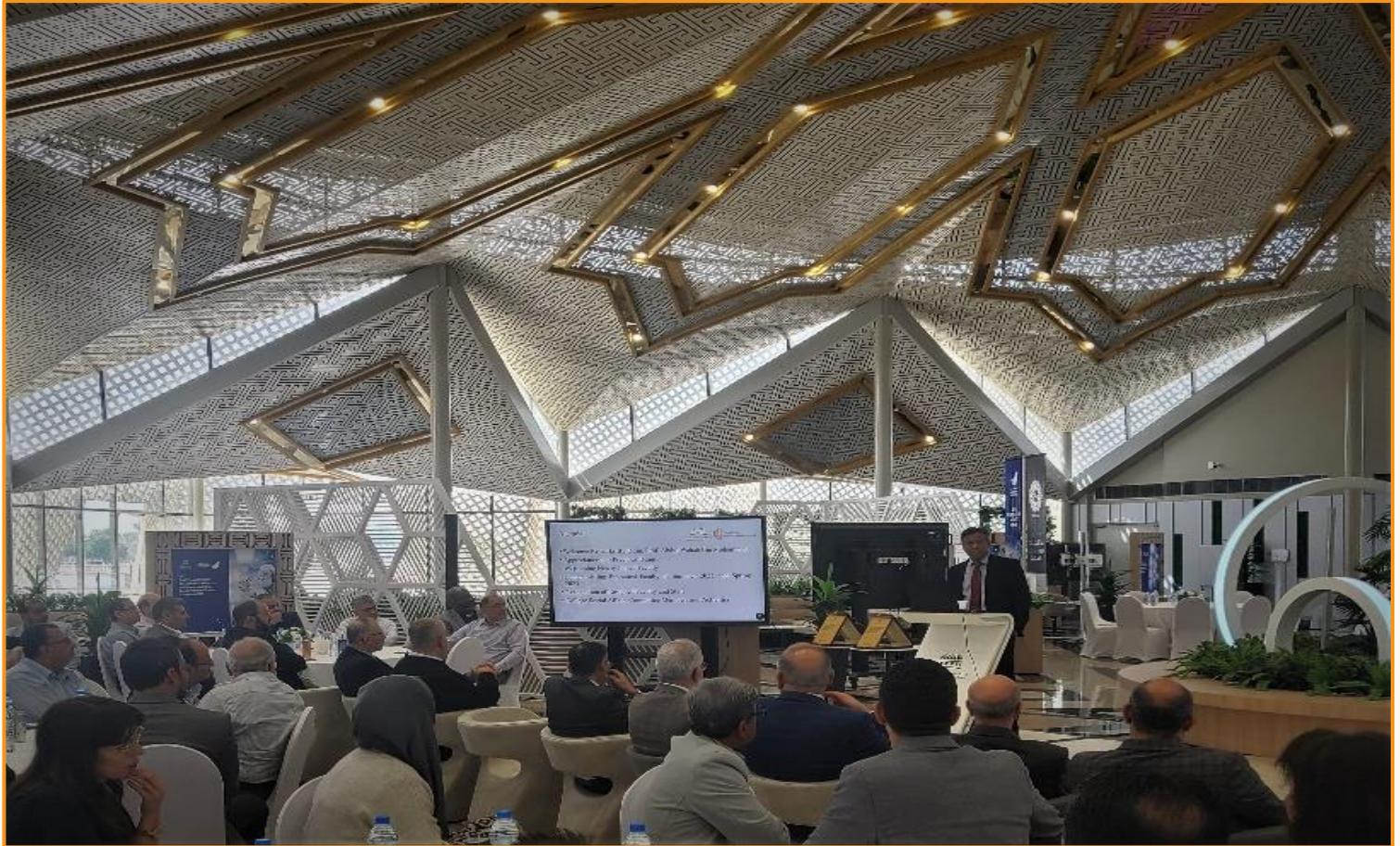


Dr. Saeed Abdallah
promoted to the rank of
Associate Professor.
Department of Electrical
Engineering

College of Engineering Social Gathering

The College of Engineering, Social Affairs Committee organized a social gathering on February 23, 2023, in the student forum building. The purpose of this event was to welcome Prof. Abdul Wahab Bin Mohammad, the new Dean of the College of Engineering, and to express sincere appreciation for the hard work and significant contributions of the previous Deans, Prof. Ahmed Al-Shammaa and Prof. Yousef Haik, in fostering the success and growth of the College and the University as a whole.

The social gathering also served as an opportunity to welcome seven newly joined faculty members and to congratulate sixteen faculty members who were promoted during 2022-23. Additionally, the event included recognition of four faculty and staff members who resigned.





Innovation X.0 Forum: Towards a Smart Digital Green Society

The College of Engineering, in cooperation with several international institutions and companies, organized the First International Innovation X.0 Forum on May 4th 2023. The forum addressed the topic of Smart-Digital-Green (SDG) manufacturing technologies and their applications in society and various industrial and commercial sectors, including manufacturing, transportation, space, energy, and health. Twenty keynote speakers and experts representing industry sectors, academic institutions, and experts from various scientific research centers participated in the forum.

In his speech during the forum, His Excellency Prof. Hamid Al-Nuaimi, Chancellor of the University of Sharjah, stressed the importance of the topics discussed by this forum, indicating that the most critical issues concerning societies nowadays is the transition towards creating renewed industrial technologies while preserving a sustainable and green environment. He added that the world is now standing at the point of a new phase that represents advanced technologies, applications of artificial intelligence, the Internet of Things, and renewable energy solutions, which are essential attributes that both academic and research institutions must prepare their graduates to keep abreast of these developments and acquire the skills that qualify them to deal with them.

In his speech, Fahad Shehail, Chief Operating Officer at BEEAH Group, referred to the efforts made by Bee'ah Group regarding innovation and creativity to rely on future digital applications in fields such as preserving the environment and reducing the carbon footprint to achieve a healthy and sustainable future, stressing the importance for all representatives of the industry community and academic institutions to cooperate in studying the challenges and developing appropriate solutions to build a digital, smart and sustainable society.



Mr. Mohamed Khalifa, CEO of the Middle East Region, Siemens Digital Industries, UAE, reviewed the numerous efforts made by the company in the United Arab Emirates and other countries in which it operates to familiarize innovative technologies in modern and sustainable digital manufacturing in a manner that preserves and protects environmental resources from pollution.



The College of Engineering Selected Senior Design Projects Exhibition

In the presence of His Excellency Prof. Hamid Al Nuaimi, Chancellor of the University of Sharjah, the College of Engineering organized the Senior Design Projects Exhibition on May 4th, 2023. A total of 27 senior design projects were selected amongst many graduation projects that present innovative and sustainable solutions to many engineering challenges. Prof. Abdel Wahab bin Mohamad, Dean of the College of Engineering, acknowledged the advanced level of the projects which participated during the exhibition,

stressing the importance of organizing an exhibition for graduation projects and its role in keeping pace with all developments to display appropriate and innovative solutions in the field of engineering departments that contribute to serving the local community. He added that the college is keen to encourage students to present the best projects and distinguished ideas, reflecting their skills and knowledge acquired during their studies.



Senior students from the Civil and Environmental Engineering department presented five projects, including structural designs for multi-story buildings resisting earthquakes, investigating the rheological properties of the colored asphalt material, and providing solutions for traffic congestion at the University of Sharjah. Whereas students from the Industrial Engineering and Engineering Management departments presented innovative ideas and designs dealing with Compressed Air Energy Storage Systems, Reducing Patient Waiting Time in the University Hospital of Sharjah Pharmacy, enhancing the performance of Fuel Cell Systems using Machine Learning Techniques, and designing an automation application for Bench Press safety.



The College of Engineering Selected Senior Design Projects Exhibition



The Electrical Engineering senior students focused on presenting solutions for a highly challenging social issue, such as "Breast Cancer Detection" system, "Robot-Assisted Therapy and Supervision for Children with Autism Spectrum Disorder", "Autonomous lifeguard system", "Emirati Sign Language Recognition Using Deep Learning" and "Solar - wireless electric Vehicles charging system".


As for the Department of Architectural Engineering, Students presented four projects that varied in engineering designs, integrated and sustainable residential complexes in heritage, Islamic architecture, urban studies, and building designs that keep pace with modern times, technology, and architectural sciences.

Students of the Mechanical and Nuclear Engineering department presented three projects dealing with a "Water Purification System" using Solar Energy, an innovative design of a "Tire Changing Kit", and an environment-friendly "Air Conditioning System".

The students of the Department of Sustainable and Renewable Energy Engineering presented five projects, including flexible photovoltaic solar applications in floating solar panels, a greenhouse project for climate control and aquaculture, a carbon dioxide battery to help oxygen to improve electrical energy, and a hybrid electrical storage system for wireless aircraft using a supercapacitor and a Fuel Cell, in addition to a project to produce hydrogen from food waste.

Sports Activities

The College of Engineering Social Affairs Committee, in collaboration with the Deanship of Student Affairs, successfully organized weekly sports activities for the faculty, staff members, and their families



كلية الهندسة
COLLEGE OF ENGINEERING

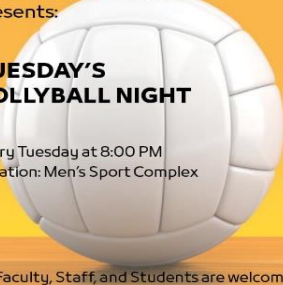
The College of Engineering
Social Affairs Committee
presents:

**TUESDAY'S
VOLLEYBALL NIGHT**

Every Tuesday at 8:00 PM
Location: Men's Sport Complex

All Faculty, Staff, and Students are welcome to join!

**MAKING A DIFFERENCE
TOGETHER**





College of Engineering Retreat Day

9

The College of Engineering's Social Affairs Committee successfully organized the College of Engineering Retreat Day on May 25, 2023, at the M21 Men's Student Affairs Building. The esteemed guests present at the event included His Excellency Prof. Hamid Al Naimiy, Chancellor of the University of Sharjah; Prof. Maamar Bettayeb, Vice Chancellor for Research & Graduate Studies; Prof. Esam Agamy, Vice Chancellor for Institutional Effectiveness and Accreditation; Prof. Abdul Wahab Bin Mohammad, Dean of the College of Engineering, along with numerous faculty and staff members from the College of Engineering.

The purpose of the Day Retreat was to provide an opportunity for the faculty members and staff of the College to come together and develop action plans aligned with the University's strategic plan, aiming to propel the College forward. During the event, the five priority pillars of the College of Engineering, namely Undergraduate Programs, Post-graduate Programs, Research & Innovation, Learning Environment & Experiential Learning, and Sustainability and Growth, were presented by five group leaders.



Meeting with Board of Trustees Members

A gathering was arranged on June 13th, 2023, where the Dean of CoE convened with the members of the Board of Trustees, including Prof. Dato' Ir. Dr. Mohd. Hamdi Abd. Shukor, the Vice Chancellor of the University of Malaya, Malaysia, and Prof. Kamal Youcef-Toumi, a Mechanical Engineering Professor and Co-Director of the Center for Clean Water and Energy at the Massachusetts Institute of Technology (MIT), USA. All department chairmen and coordinators were extended an invitation to attend this meeting, which aimed to address the challenges and future plans for CoE.



Sharjah Sustainability Award Honoring the Winners of the 11th Edition

THE ENVIRONMENT AND PROTECTED AREAS AUTHORITY IN SHARJAH (EPAA) ANNOUNCED THE WINNERS OF THE 11TH EDITION OF THE SHARJAH SUSTAINABILITY AWARD



In a large and distinguished ceremony held at the Al Qasimia University Theatre on May 4th 2023. Students from the College of Engineering won several awards in different categories. The second place was awarded to the "Sustainable Manufacturing of Functional Parts Using Manufacturing, Addition of Materials and Metal Casting" project, presented by Shamma Al Abdulla, Fabrizia Devito, and Haya Rami Noman Aljaghoub, under the supervision of Prof. Abdul Hai Al Alami.

In the field of scientific research in sustainability for bachelor's degree students, first place was won by research on flexible photovoltaic solar energy applications in floating solar panels, submitted by Fatima Adam, Dulfah Ali, and Alia Almemari, under the supervision of Dr. Di zhang.



As for the field of scientific research in sustainability submitted by postgraduate students, the first place was won by the research project "Design and Evaluation of Water Treatment Technologies for the Removal of Inorganic Components and Toxic Heavy Metals from Wastewater", by Abdul Rahman Khalil Abdul Razaq.

In the same category, second place was won by the project "Improving the Performance of the Biological Waste Reactor by Recycling the Treated Leachate" by Abdul Rahman Abdul Jaber, Supervised by Dr. Mohammad Abdalla.



In the field of future energy and emissions, the project "Bio-photovoltaic production of green hydrogen" was won by Nada Alnuwaishi, Reem Younis Alamiri, Sara Mamoun Almarzooqi, and Mariam Hasan Ahli, supervised by Dr. Abrar Inayat.



In the field of preserving and protecting natural environment resources, the second place went to the experimental test project and optimization of camel dung as potential raw materials for aerobic composting, by Sarah Mohamad Smadi, supervised by Dr. Mohammad Abdalla.

In the field of sustainability in protecting human health and the environment, first place was won by the iron and carbon nanocomposite project to mitigate heavy metal pollution in complex water environments, by Wedad Emad Masoud, Supervised by Dr. Sourjya (Shorjo) Bhattacharjee.



RESEARCH AND INNOVATION AWARDS - MINISTRY OF ENERGY AND INFRASTRUCTURE

On February 27th, 2023, Under the patronage of His Excellency Suhail bin Muhammad Al Mazrouei, Minister of Energy and Infrastructure, several students and faculty members from the College of Engineering received multiple awards in different categories:

Research and Innovation Award – for Universities and R&D Centers (Award Category: Future Mobility Solutions)

1st Place: Dr. Mohamed Abdallah and his team: Mariam Sameh and Abdulrahman Abdeljaber

Research and Innovation Award – for Individual Researchers (Award Category: Better Integration of Urban Planning)

1st Place: Dr. Zafar Said

UAE Innovates Award (Innovative projects in the Ministry Innovation Week)

Dr. Abrar Inayat and his team: Reem Younis Mahmoud Abdalla Alamiri, Nada Nouichi, Maryam Hassan Jaffar Hassan Ahli, and Sara Mamoun Mohamed Rafeea Ibrahim Almarzooqi

Prof. Abdul Hai Al-Alami and his team: Maitha Mohammad Khalfan Huwaireb Almheiri, Sara Abdallah Baha Uddin Numan, and Yara Mahmoud Tillawi



In the same event, the following faculty members from the College of Engineering departments were recognized with awards for their contributions as judges for the award:

Prof. Maher Omar (Civil & Environmental Engineering)
 Prof. Khaled Hamad (Civil & Environmental Engineering)
 Dr. Mohamed Arab (Civil & Environmental Engineering)
 Dr. Muhammad Talha Junaid (Civil & Environmental Engineering)
 Dr. Salah Haridy (Industrial Engineering & Engineering Management)

Dr. Waleed Zeiada (Civil & Environmental Engineering)
 Dr. Abrar Anayat (Sustainable & Renewable Energy Engineering)
 Dr. Ahmed Galal Abokhalil (Sustainable & Renewable Energy Engineering)
 Dr. Ammar Alkhalidi (Sustainable & Renewable Energy Engineering)
 Dr. Eslam Nofal (Architectural Engineering)



HH SHEIKH SULTAN BIN AHMED BIN SULTAN AL QASIMI ATTENDS AE STUDENTS' PRESENTATION OF THE M8 RENOVATION PROJECT

The AE department was honored to present its M8 Renovation Project to HH Sheikh Sultan bin Ahmed bin Sultan Al Qasimi. The project was part of the Illumination and Acoustics course supervised by Dr. Emad Mushtaha, where students explored the diverse interiors nestled within the corridors and spaces of M8. The displays exhibited innovative ideas and intriguing concepts among the attendees. As a result of this exceptional effort, the most outstanding renovation projects emerged as the winners, securing their positions as competition winners.

With the presence of His Highness Sheikh Sultan bin Ahmed bin Sultan Al Qasimi, Deputy Ruler of Sharjah and President of the University of Sharjah, the AE department was honored to be part of the collaboration "Art of Faith: Designing Mosque Skins." Organized and led by Dr. Aseel Ali Hussien and Dr. Aref Maksoud, with guidance from Design III instructors Dr. Ahmed Abdeen, Dr. Vittorino Belpoliti, Ms. Marta Bialko, and Mr. Ahmed Badawi, the project fostered exceptional creativity and skill among the students. Working alongside 55 third-year students from UOS' College of Engineering, AE department aimed to provide hands-on experience by designing skills for the mosque at the Nest student housing complex in Aljada. The designs were showcased at a special exhibition attended by HH Sheikh Sultan bin Ahmed Al Qasimi, Deputy Ruler of Sharjah, Prof. Hamid Al-Naimiy, Chancellor of the University of Sharjah, and officials from Arada. During the event, certificates were presented to the students with the four best-rated designs. Gratitude goes to all involved in making this collaboration.



SPACESHIFT: AN EXHIBITION OF AI-DESIGNED VERTIPORTS & FUTURISTIC SPACE TRANSPORT

The Architectural Engineering Department held its exhibition titled "SpaceShift AI-Designed Vertiports & Futuristic Space Transport Buildings" under the patronage and attendance of H.E. Prof. Hamid M. Al Naimiy. This groundbreaking event took place at the Sharjah Academy For Astronomy, Space Sciences, and Technology, supervised by Dr. Aref Maksoud and Dr. Aseel Ali Hussien.

The exhibition was a truly unique and visionary showcase featuring the cutting-edge utilization of artificial intelligence in space architecture and design. Posters, including photorealistic renders, Interactive physical models, and AI videos, were presented, offering a glimpse into the future of space engineering, where humanity, art, and technology converge.



AE WON THE MOSQUE DESIGN COMPETITION ORGANIZED BY THE DEPARTMENT OF PLANNING AND SURVEY

Mosques and Parks competition organized by the Department of Planning and Survey, Sharjah. The AE students won the first, second, and third-prizes out of 30 submitted projects.

**Mahra Khalfan Mohammed
Annoon Alnuaimi**



First Prize

**Menatallah Ayman Ahmed
Aly**



Second Prize

**Sarah Isam Abdul-Rahman
Alawneh**



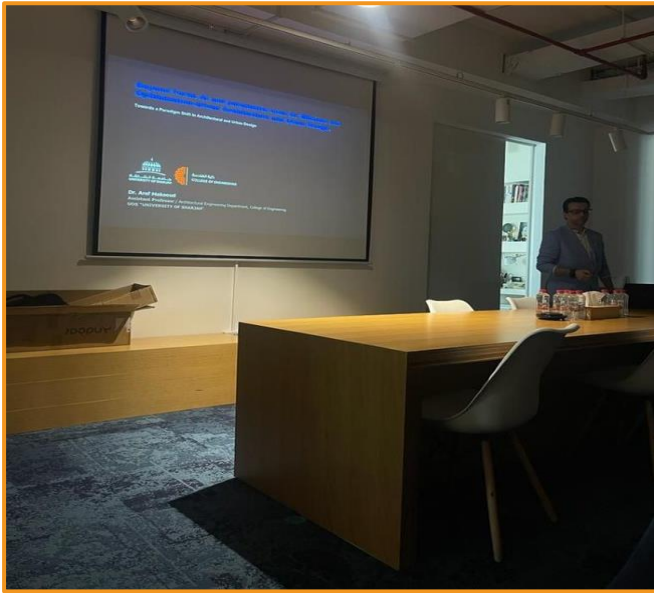
Third Prize

FAITH OASIS EXHIBITION: USING ARTIFICIAL INTELLIGENCE TO IMAGINE SHARJAH BUILDINGS IN THE FUTURE.

Under the patronage and attendance of H.E. Prof. Hamid M. Al Naimiy, Supervised and organized by Dr. Aref Maksoud, The first exhibition of its kind in the U.A.E., using A.I. in architecture by undergraduate students, where our students using A.I. platforms, have utilized deep learning to collect Sharjah Building styles and cultural backgrounds and possess independent cognition



DR. AREF MAKSOUD DELIVERED A TALK AT DEWAN ARCHITECTS



Dr. Aref Maksoud had the pleasure of delivering a captivating talk at Dewan Architects. It was an honor to be invited to their esteemed head office located in D3. The title was "Beyond Form: AI and Parametric Tools for Efficient and Optimization-driven Architecture and Urban Design". The talk explored the transformative role of artificial intelligence and parametric tools in shaping the future of architecture and urban design.

DR. AREF MAKSOUD WAS INVITED BY THE DUBAI INSTITUTE OF DESIGN AND INNOVATION AS JUROR

Dr. Aref Maksoud was invited as a juror at the Final Studio Presentations of the Foundations Course at Dubai Institute of Design and Innovation - (DIDI).



The SASA team put a lot of effort into designing a booth that would attract and engage students on February 7th, 2023 at UOS. They included various architectural-related games that challenged visitors' creativity and problem-solving skills. Popular activities included the "furnish your own home" game, mind-teasing puzzles, and matching planes from different viewpoints. The booth was a success, and the club was exciting and fun.



Four team projects from Architecture Design IV (coordinated by Dr. Moohammed Wasim YAHIA and Dr. Ahmad Sukkar) were selected by and later presented at the Department of Municipalities and Transport (DMT) headquarters in Abu Dhabi as examples of the best projects for shopping mall building design in Al-Dhafra.



Students Leen Alsyouf, Rghed Al Chaghouri, and Yazan Elkahout from the Architecture Department won the best park design award organized by the Department of Town Planning and Survey under the supervision of Dr. Ahmed Sukkar and Dr. Mohammad Wasim Yahya, where their projects focused on integrating advanced technologies to create unique and innovative designs.

Student Linah Oudah Saedi from the Architecture Engineering Department won the second-best park design award organized by the Department of Town Planning and Survey under the supervision of Dr. Mohammad Wasim Yahya, where the project focused on the social aspect integrated into the landscape design to create a high-quality space and sustainable environment.



Dr. Ahmad Sukkar was honored in Muscat, Oman, for being shortlisted for the Makiya Tamayouz Excellence Award 'Middle Eastern Architectural Personality of the Year' 2020. He gave a short talk during the event attended by senior government figures, international architects, artists, educators, and scholars, in January 2023.

AE Students Project receives Honorable mention by the International Union of Architects (UIA) competition



INTERNATIONAL UNION OF ARCHITECTS

PRESS RELEASE
5 JUNE 2023

[Lire la version française](#)

Competition results: Next Generation of Stroke Rehabilitation Centres

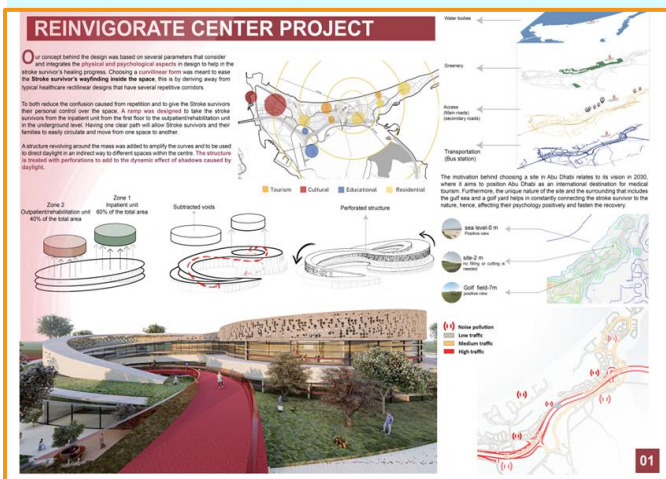
The International Union of Architects (UIA) is pleased to announce the results of the Next Generation of Stroke Rehabilitation Centres international single stage student ideas competition, organised by its [Public Health Work Programme](#) and the NOVELL Redesign Team, and co-sponsored by the Australian Health Design Council (AHDG).

The competition aimed to encourage architecture and design students interested in design for health and to advance new ideas and futuristic concepts to solve current challenges identified by brain-injured (stroke) patients, family members and medical staff. It invited students to design a rehabilitation centre for 30 stroke survivors and sought creative and ambitious designs to meet stroke survivors' needs during their recovery.

In accordance with the rules, participants in this international competition submitted their projects anonymously. **175 projects** were submitted by teams from **40 different countries**.

The international jury, supported by the coordinator of the Technical Committee Zhipeng Lu, met virtually

AE students' project was among the Best 7 Honorable Mentions Projects by the international competition organized by the International Union of Architects (UIA). The awarded Senior project "Reinvigorate Center" was by the students Salma Essam Eldin Anwar, Ameera Abdallah Anas, Muna Mohamed Elsadig and supervised by Dr. Ahmed Abdeen.





Prof. Ghazi Al-Khateeb was interviewed by Sharjah TV as a member of the organizing committee of the CoE Annual Senior Design Project Exhibition. The interview was broadcasted in أخبار الدار program. Prof. Al-Khateeb talked about the participating projects and the innovative ideas behind these projects, and their impact on the community.



The winning group of students from the CEE Department was interviewed by Sharjah TV to talk about their project on "Colored Asphalt Pavements" under the supervision of Dr. Waleed Zeida and Prof. Ghazi Al-Khateeb. The interview was broadcasted in أخبار الدار program.



The same team was also interviewed by Sharjah TV in their studios in the Program "أماسي". In the same program, Dr. Waleed Zeida was on the air through a phone call.



Prof. Ghazi Al-Khateeb and Dr. Mohamed Arab from the CEE Department participated and presented papers in the Kalba 2nd Forum on Building and Construction held on February 21, 2023.

Dr. Zaid Al-Sadoon, from the Civil and Environmental Engineering Department, conducted two exclusive interviews with the Al-Arabia Broadcast Channel. These interviews aimed to raise awareness about earthquake safety measures and provided a deeper understanding of the remarkable techniques used in constructing earthquake-resistant buildings. The interviews provided valuable insights and information.

On February 7, 2023, Dr. Al-Sadoon highlighted crucial safety measures during an earthquake. The insightful discussion, which can be accessed at this link https://www.youtube.com/watch?v=whQTlsr_2Dk, explores essential tips and guidelines to protect oneself and others during such catastrophic events.

Furthermore, on February 19, 2023, he engaged in an enlightening conversation about earthquake-resistant buildings. During this interview, Dr. Al-Sadoon delved into the fascinating world of architectural design and engineering, highlighting how these structures are meticulously designed to withstand the tremendous forces unleashed by earthquakes. The interview can be viewed here (<https://www.youtube.com/watch?v=4YtxQeXowY4>)

Visit by Taryam American Private School visited CEE department on February 16, 2023.



Government Services Dialogues Summit in Dubai was held on February 14, 2023. The event provided an opportunity for participating students and faculty members to learn about the most important global trends in the field of services and improving customer experience. It also enabled the exchange of expertise and experiences with important leaders and experts in services and digital transformation of services. Prof. Ghazi Al-Khateeb and Dr. Mohamed Arab from the CEE Department participated in this event.



Workshop on Building Design for Extreme Loads: Earthquakes and Blasts, Feb 20-22, 2023


This workshop was organized by The Department of Civil and Environmental Engineering and the Sustainable Construction Materials & Structural Systems Research Group (SCMSS) of the Research Institute for Sciences and Engineering (RISE) at the University of Sharjah in collaboration with the Civil Engineering Department at the University of Ottawa, Canada.



Prof. Abdul-Kadir Hamid was honored by the Office of Sustainability as the sustainability circle leader for the Green-metric initiative. Prof. Abdul-Kadir Hamid Awarded Top 5 Innovative Ideas for the Sharjah Ideas and Innovative Box for ideas related to PV Systems Grid Connection and real-time temperature detection and Smart User Identification for COVID-19 Applications.



On 17 May 2023, during the 15th University Research Forum under the patronage and in the presence of His Highness Sheikh Sultan bin Ahmed Al Qasimi, Deputy Ruler of Sharjah President of the University of Sharjah, Dr Eqab Almajali received the Faculty Incentive Award for Teaching Category. Additionally, Dr. Khawla Alnajjar received the Best UAE National for Scientific Research.



Top Cited Article 2021-2022

Congratulations to:
Anwar Jarndal
whose paper has been recognized as a top cited paper* in:

IET MICROWAVES, ANTENNAS & PROPAGATION


On temperature-dependent small-signal modelling of GaN HEMTs using artificial neural networks and support vector regression

*Among work published in an issue between 1 January 2021 – 15 December 2022.


Dr. Anwar Jarndal is appreciated for his top-cited article in the Journal of IETMicrowave, Antenna & Propagation.



Dr. Khawla Alnajjar and Dr. Mahmoud Albreem participated in the digitizing and sustainability dialog organized by the Ministry of Interior in Abu Dhabi on March 9th, 2023



جامعة الشارقة
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كلية الهندسة
COLLEGE OF ENGINEERING

USER SCHEDULING IN INTEGRATED SATELLITE-HAPS-GROUND NETWORKS USING ENSEMBLING DEEP NEURAL NETWORKS

Speaker: Dr. Hayssam Dahrouj (EE Department).
Date and time: Wednesday Jan. 25, 3:00–4:00 pm.
Location: Al Bayrouni Hall.

MAKING A DIFFERENCE TOGETHER

Dr. Hayssam Dahrouj from the EE Department gave a seminar on Jan. 25th 2023, covering the topic of user scheduling in integrated satellite-haps-ground networks



جامعة الشارقة
UNIVERSITY OF SHARJAH



كلية الهندسة
COLLEGE OF ENGINEERING

SEMINAR: MINGLE WITH INDUSTRY EXPERTS

Speaker: Mr. Mohd Elayyan
CEO and Chief Security Officer
at Distilogix

Date and time: Wednesday Feb. 15, 2:00 pm.
Location: Al Bayrouni Hall.

On Feb. 15th 2023, the EE Department organized an Employability seminar titled "Mingle with Industry Experts" by Mr. Mohd Elayyan, CEO and Chief Security Officer at Distilogix (member of EE PAC).



To promote high-quality graduate research and the spirit of innovation among graduate students, the EE Department organized the Third EE Graduate Research Day on May 3rd, 2023.



Dr. Anwar Jarndal from the Electrical Engineering department organized a technical workshop in FabLab UAE in Dubai in cooperation with the Students Affairs Deanship of the University of Sharjah.



Prof. Hissam Mouayad Tawfik served as a moderator and chair for the 'AI in Healthcare' session as part of the 1st Scientific Conference in Health and Medical Research, organized by the UAE's Ministry of Health and Prevention, Dubai, on December 2022.

Prof. Abir Jaafar Hussein from the EE Department gave a seminar on April 11th, 2023 on the topic of Data Science and Industrial Applications.



Dr. Raouf Fareh served as a judge in the Emirates Robotics Competition 2023. The competition was held on March 2nd, 2023 at Rochester Institute of Technology Dubai.



Dr. Anwar Jarandal and his SDP students won 3rd place in the Best Senior Design Project Competition for the category of Communications and Electronics. The national competition among UAE universities was part of the 17th IEEE Student Day at AUS on April 29th, 2023.

Prof. Hissam Mouayad Tawfik and his SDP students have won 1st place in the "Technological solutions towards a smart digital green society" Competition as part of the First Global Innovation Forum X.0, held on May 4th, 2023.



The IEEE Closing Ceremony for the AY 2022-2023 was held on May 3rd, 2023. The event was attended by EE faculty, undergraduate and graduate students. During the event, the IEEE club honored distinguished student and faculty members for their outstanding contributions to the IEEE activities.



Dr. Anwar Jarndal served as a TPC member and reviewer for the IEEE International Conference on Electrical and Computing Technologies and Application. Also, he published two papers at the same conference.



The EE Department and the IEEE Club organized the IEEE Fun Day, involving various outdoor activities to promote the student community and encourage active participation in student life at the University of Sharjah.



On March 20, Prof. Abdul-Kadir Hamid organized a field trip for students to visit a Grid-connected 3kW PVT system located on the W12 Roof. The purpose of this trip was to provide students with hands-on experience and practical application of the theoretical concepts they had studied in lectures.



Dr. Sohaib Majzoub and his students won an award in SDP College Competition in May 2023. The project is about Electrical Impedance Tomography for Breast Cancer Detection.



Prof. Imad Alsyouf and Dr. Ali Cheaitou organized the fifth workshop on Civil Aviation Traffic Management, which focused on the "Development of Drone Traffic Scenarios" and "Air Traffic Controllers' Support Systems".

The workshop was attended by representatives of Linköping University, the Swedish Air Navigation Services Company (LFV), Dubai Air Navigation Services, Dubai Municipality, and the General Authority of Civil Aviation in the UAE.



Dr. Sujan Piya will serve as a Scientific Committee Member at the International Conference on Science, Engineering Management and Information Technology, which will be held at Ankara Yildirim Beyazit University on September 14-15, 2023, Ankara, Turkey.



Dr. Zehra Canan Araci with an MSc student, Sarah Alkindi, presented "Artificial Intelligence based detection and classification of material failure types for Forensic Engineering" at the World Police Summit hosted by Dubai Police in Dubai on March 7-9 2023



Prof. Imad Alsyouf, Director of the Sustainability Office, attended the Global Sustainable Development Congress organized by THE and KAUST in Saudi Arabia from May 30-June 1, 2023. He was invited to participate as a panelist (<https://www.timeshighered-events.com/gsd-congress-2023/page/2246427/speakers>).

Prof. Atidel Aboubaker Ep Ben Hadj Alouane attended at the First International Innovation X.0 Forum on Thursday, 04th May 2023.



Dr. Zehra Canan Araci participated in the 4th Forum for Women in Research Committee Meeting in Khorfakkan on February 24th, 2023.



Dr. Zehra Canan Araci participated in the Digitalization and Sustainability Forum organized by the UAE Ministry of Interior in Abu Dhabi on 22nd March 2023. Dr. Concetta Semeraro and Dr. Malek Masmoudi also participated in the forum.



Dr. Zehra Canan Araci delivered a presentation about Learning Environment & Experiential Learning on the College Retreat Day on 25th May 2023.



Dr. In-Ju Kim was appointed as an Editorial Board member of the PLOS ONE Journal and has served since Feb. 2023. He also participated as a reviewer in the UAE Graduate Students Research Conference 2023.

The IISE Chapter #744 held an IISE Opening Ceremony for all students and instructors of the IEEM department. Prof. Fikri Dweiri and Eng. Mohammad Khasawneh participated in this event.



The IISE Chapter #744 held a Breast Cancer Awareness Campaign. Dr. Zehra Canan Araci, Dr. Ali Cheaitou, and the students participated in this event.



The IISE Chapter #744 held a Tableau Workshop. Dr. Sameh Tawfiq AlShihabi presented at the workshop.

TABLEAU WORKSHOP

PRESENTED BY:
PROFESSOR SAMEH TAWFIQ

THURSDAY 19 JANUARY, 2023
3:30 - 4:00 pm
W9, 002





Prof. Hamdi Bashir and Dr. Zehra Canan Araci served as members of the Jury Committee and chairs of the organizing committee for the College of Engineering Students' Senior Design Projects Exhibition. Five selected SDP groups participated in the exhibition session, which was held on May 25th 2023.





Dr. Ihsanullah Obaidullah has received a certificate of recognition from the Dean College of Engineering at the University of Sharjah for serving as a judge in the Senior Design Project Exhibition.

Dr. Ihsanullah Obaidullah has been appointed as the Early Career Editorial Member for the Elsevier Journal Resources, Environment, and Sustainability.



Students of the Mechanical and Nuclear Engineering (MNE) Department at the University of Sharjah attended the Virtual Power Plant Visit organized by the Dubai Electricity and Water Authority (DEWA) on March 20, 2023. The theme of the Virtual Visit was "How to produce Water and Electricity & Conversation". Participants learned about the operations for producing water and electricity in DEWA plants. Dr. Adewali Giwa coordinated the Virtual Visit on behalf of the Chemical and Water Desalination Engineering (CWDE) Program and MNE Department.

Dr. Adewali Giwa gave a talk at the 3rd MNE Seminar Series for Spring 2022-2023 on April 27, 2023. The title of the seminar is "Turning Waste into Value: Some Practical Examples". The talk discussed how engineering approaches could be employed to turn waste into valuable resources in a circular economy manner.

Prof. Khalil Abdelrazek and Prof. Tahar Laoui served as a members of the Scientific Committee and Session Chair for the first International Innovation X.0 Forum (Industry X.0 Forum) held on May 4th, 2023, at UoS



Prof. Tahar Laoui participated in the MOU signature ceremony between UoS and Siemens, held on Feb. 22nd, 2023



Mr. Osama Taqatqa received the certificate for participating in the meeting held at New York University, Abu Dhabi, on June 6th, 2023, and focused on safety and health in universities.



Dr. Muhammad Zubair delivered a Keynote speech at the conference Sustainable Energy and Power Systems (SEPS 2023), Sharjah, UAE. He also served as session chair at this conference.



The MNE department arranged a farewell for Dr. Ho Joon Yoon and Dr. Khalid Ramadan on June 13, 2023. The MNE colleagues are thankful to them for their valuable contribution to the department and have best wishes for their future careers.



An MOU was signed on April 13th, 2023, by the CoE Dean, Prof. Abdul Wahab Bin Mohammad, from the University of Sharjah, and Prof. Bum-Jin Chung, Director of the Innovative Research Institute for Next-Generation Nuclear Energy System, Kyung Hee University, South Korea.



Dr. Sarif Junaidi and Dr. Belal secured international funding (5000\$) for MatSQ international competition, for MD simulations and DFT calculations.

Dr. Adewali Giwa has been awarded the Research and Innovation in Educational Technology Grant by the UAE Ministry of Education in collaboration with the University of Sharjah's Institute of Leadership in Higher Education. The objective of the project sponsored by the grant is to help Engineering students with learning disabilities by creating realistic and interactive environments. The project also aims to assist students with beginner/elementary levels of proficiency in Engineering to develop deep learning experiences by capturing their attention through engaging activities that they enjoy doing.



Dr. Adewali Giwa has been appointed as a Visiting Scholar in the School of Mechanical Engineering at Purdue University, West Lafayette, Indiana, United States of America, for Summer 2023

Dr. Adewali Giwa was invited to present a research work titled "Thin-film hygroscopic polymer membranes for selective air dehumidification" at the American Chemical Society (ACS) Spring Meeting 2023 that was held at Indianapolis, United States of America on March 26-29, 2023.

Dr. Adewali Giwa was invited to be a guest editor for a special issue on microplastics in water, their occurrence, detection, measurement, environmental pollution, and the need for regulatory standards for Elsevier. The Special Issue will involve networking and learning with peers around the world (through sponsored conferences), new collaborations, and future opportunities.

SREE SDP groups supervised by Dr. Di Zhang were awarded the "Al Baheth capstone project funding" from Dubai Electricity & Water Authority (DEWA) with 20,000 AED external funding for each group.

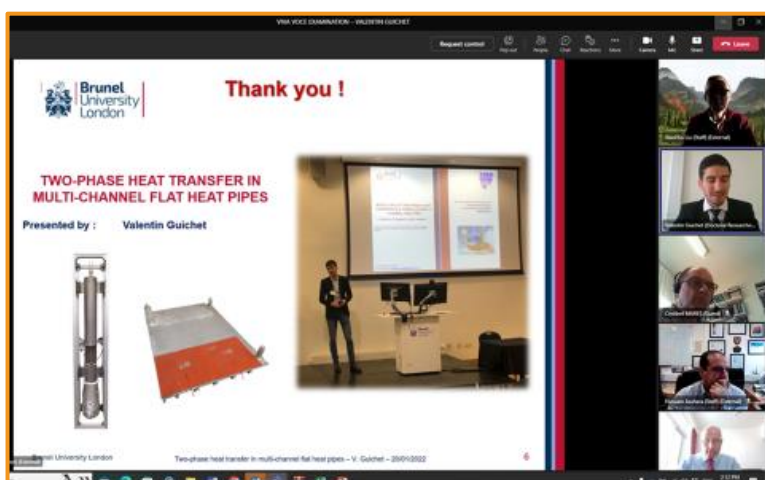


The SREE SDP group of Hasan Kanjo, Baraa Kalash and Mohammed Al-Neama supervised by Dr. Di Zhang won second place in the 10th Undergraduate Research Competition (URC) hosted by Abu Dhabi University on May 18th, 2023.

Dr. Di Zhang was invited to deliver a talk to the Centre for Nanotechnology Research, Vellore Institute of Technology (VIT), India. on February 13th, 2023.

The SREE SDP group of Alya Almemari, Dalfa Ali, and Fatima Adam, supervised by Dr. Di Zhang, won the First Rank in Research in Sustainability - Undergraduate category in the Sharjah Sustainability Award (2022-2023) by the Environment and Protected Areas Authority (EPAA) on May 24th, 2023.

Prof. Abdul Ghani served as Ph.D. examiner at Brunel University, London, on January 20th, 2023.



Dr. Bashria was interviewed on Sharjah TV on May 7th, 2023 to talk about the College of Engineering senior design project exhibition.

<https://www.youtube.com/watch?v=Rd9oEBxZcXw>

Prof. Abdul Hai Alami and Dr. Di Zhang, visited Dubai College and made a presentation to the students and teachers, on the subject of renewable energy technology and an introduction to the SREE program on May 3rd 2023.



Prof. Abdul Ghani served as the chair of the International Conference of Sustainable Energy & Power Systems held on March 13-16, 2023

Prof. Abdul Ghani Olabi received Abdul Hamid Shoman Research Award 2022-23



Prof. Abdul Ghani Olabi received a research award from UOS on March 2023.



Prof. Abdul Ghani Olabi was interviewed by Sharjah TV on January 10, 2023.



Dr. Di Zhang delivered a technical workshop to the SREE department and audience from the college titled "Sizing/simulating distributed solar PV systems" on 23rd January 2023.



Dr. Zafar Said for being awarded "First prize in the category of individual researchers and experts in the field of better integration of urban planning, Research, and Innovation by the Ministry of Energy and Infrastructure in UAE, 2023, Under the auspices of His Excellency / Suhail bin Muhammad Al Mazrouei, Minister of Energy and Infrastructure, and on the occasion of the month of innovation.



Dr. Zafar Said received the 2022 IJEM Best Paper Award: Electrostatic atomization minimum quantity lubrication machining: from mechanism to application. International Journal of Extreme Manufacturing. IF: 10.036



Dr. Zafar Said was appointed as an editorial board member for the following journals.

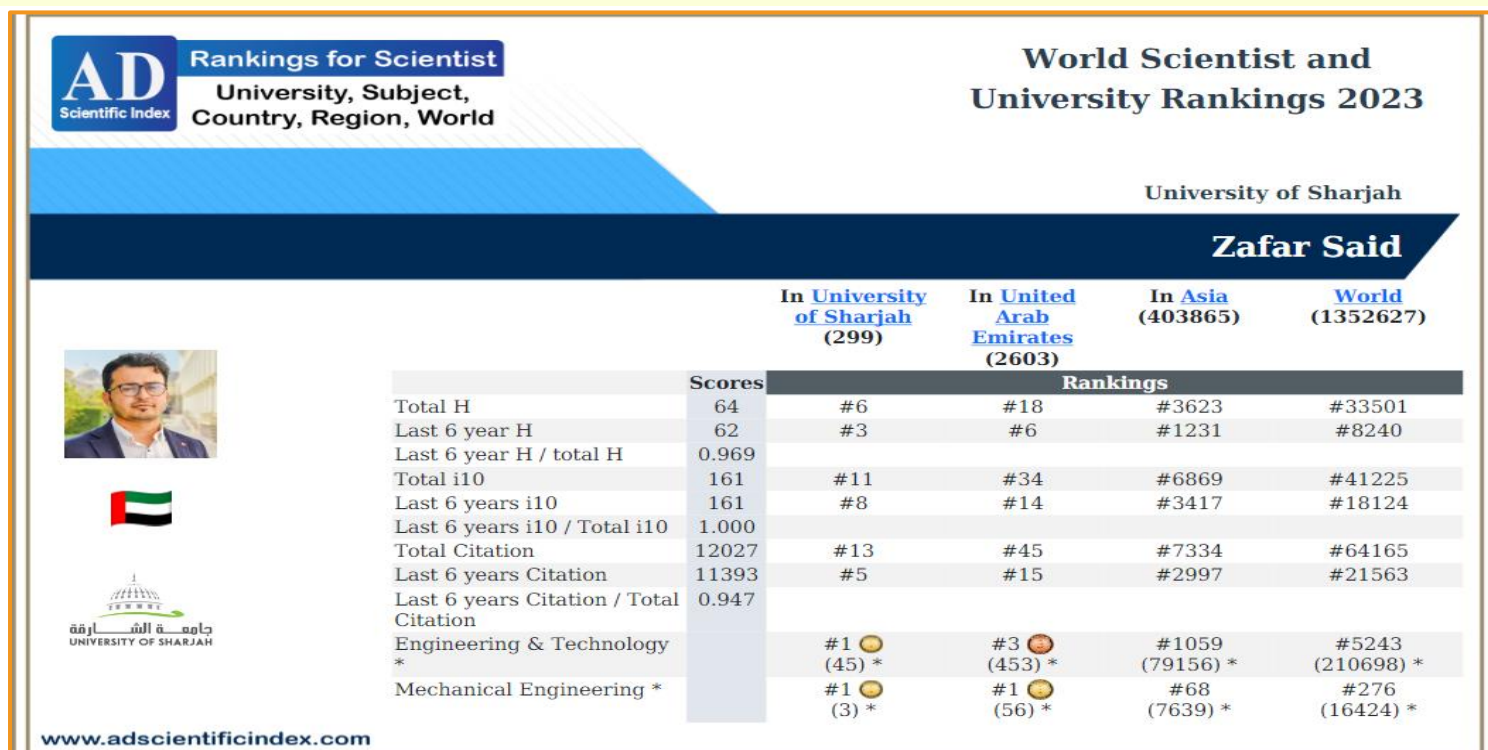
- Journal of Resource Recovery
- Energy Sources Part A: Recovery, Utilization and Environmental Effects
- International Journal of Extreme Manufacturing (IJEM)

Dr. Zafar Said is Ranked 522 in the world and 3 in the United Arab Emirates and was awarded the 2022 Rising Star of Science Award by Research.com.
<https://research.com/u/zafar-said>

Dr. Zafar was invited as a Keynote Speaker at International Workshop on Renewable Energy System (RES): system designing & global transition Hosted by IEEE USPCAS-E, National University of Sciences and Technology (NUST), and partnered with The National University of Malaysia (UKM) & University of Sharjah, on May 23-24, 2023.



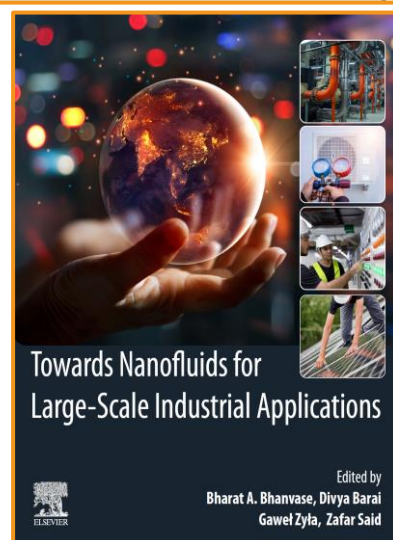
Dr. Zafar Said is ranked #1 in Mechanical Engineering in University of Sharjah and in UAE as per AD Scientific Index - World Scientist Rankings - 2023. He is also ranked #1 in Engineering & Technology at the University of Sharjah and #4 in UAE. (<https://www.adscientificindex.com/scientist/zafar-said/2040051>)



Dr. Abrar Inayat received the UAE Innovates Award from the Ministry of Energy & Infrastructure. The award was received from UAE Minister of Energy & Infrastructure (H.E. Suhail bin Mohammed Al Mazroui), United Arab Emirates.



Dr. Zafar Said edited a book on "Towards Nanofluids for Large-Scale Applications" with Elsevier.



Dr. Abrar Inayat received Appreciation Award from the Chancellor & Vice-Chancellor (Research) for distinguished contribution and dedication regarding achieving First Place in the UAE for the University of Sharjah in the 2022 UI Green Matric World University Ranking.



Dr. Abrar Inayat received the Sharjah Sustainability Award (2023) First Rank in the Future Energy Category from Environment and Protected Areas Authority, Sharjah, UAE.



Dr. Abrar Inayat received an appreciation certificate from the Ministry of Energy & Infrastructure, UAE



SDP Students of Dr. Ahmed Galal and Dr. Abrar Inayat received the winning award at the SDP Exhibition during the First International Innovation X.0 Forum.



Dr. Abrar Inayat delivered a Keynote speech at the conference Sustainable Energy and Power Systems (SEPS 2023), Sharjah, UAE



Dr. Abrar Inayat contributed as conference coordinator for organizing Sustainable Energy and Power Systems (SEPS 2023), Sharjah, UAE

INTERNATIONAL CONFERENCE ON SUSTAINABLE ENERGY & POWER SYSTEMS "SEPS 2023"

مؤتمر البحوث للعلوم والهندسة
RESEARCH INSTITUTE OF SCIENCES
AND ENGINEERING

International Conference on Sustainable Energy & Power Systems
13-16 March 2023

When: 13 - 16 March 2023

Where: University of Sharjah

Abstracts: 15/02/2023
Full Paper: 05/03/2023

International Conference on Sustainable Energy & Power Systems "SEPS" provides a forum for both researchers and practitioners around the world to present papers on recent developments in the fields of Sustainable Energy & Power Systems. The organizing committee of the conference invites papers from researchers and practitioners from academia as well as industry within the scope of the conference subject

Topics

- Renewable Energy Harvesting and Management Technologies
- Energy Efficiency in Process Industries
- Energy Storage Systems
- Smart Grid
- Bioenergy
- Hydrogen & Fuel Cell
- Carbon Capture and Decarbonization Technologies Research
- Nuclear Energy
- Energy Management
- Energy Economy
- Energy Modelling and Simulation
- Sustainable Transportation
- AI in Energy Development
- Circular Economy for Renewable Energy
- Waste Management
- Water Treatment, Management and Policy
- Climate Change
- Air Pollution
- Energy Nexus
- Materials for Energy

Presented papers will be invited to submit an extended version to a few selected Special Issue Journals.

Contact us

Dr. Abrar Inayat
Conference Coordinator
(ainayat@sharjah.ac.ae)

Prof. Abdul Ghani Olabi
Conference Chair
(aolabi@sharjah.ac.ae)