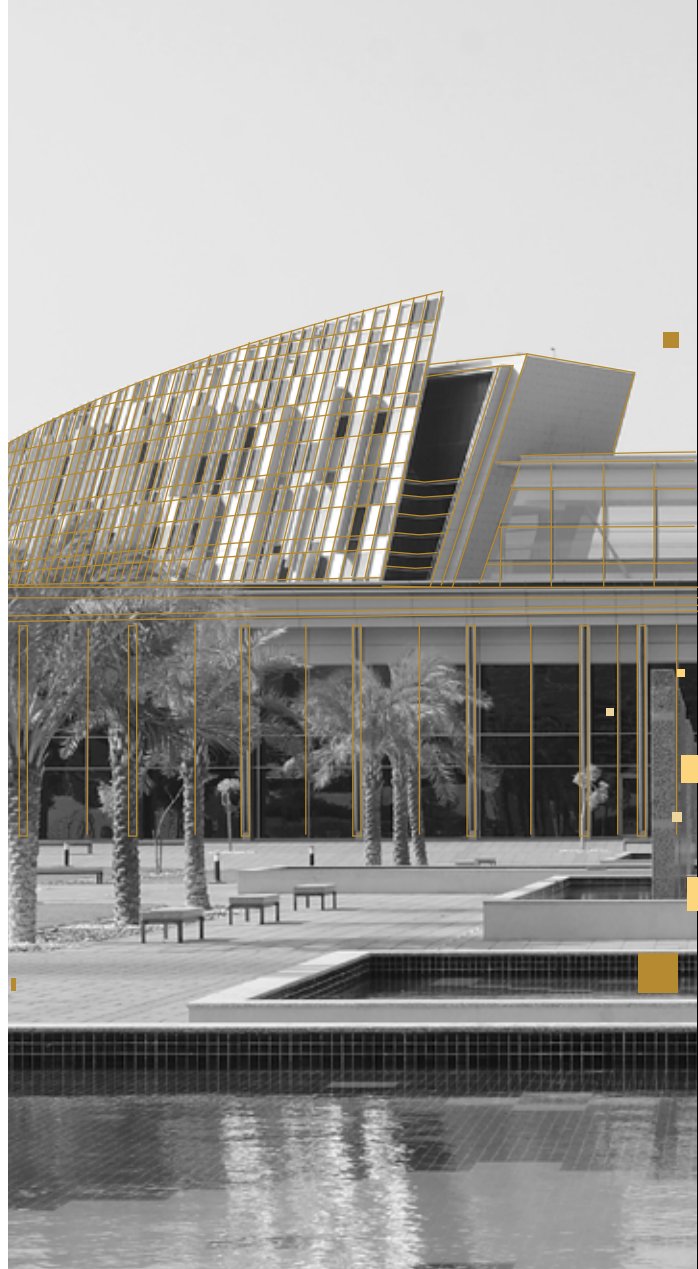


# الإمارات تبتكر UAE INNOVATES

21-27 February 2021 فبراير 21-27



UAE Innovates 2021 Annals



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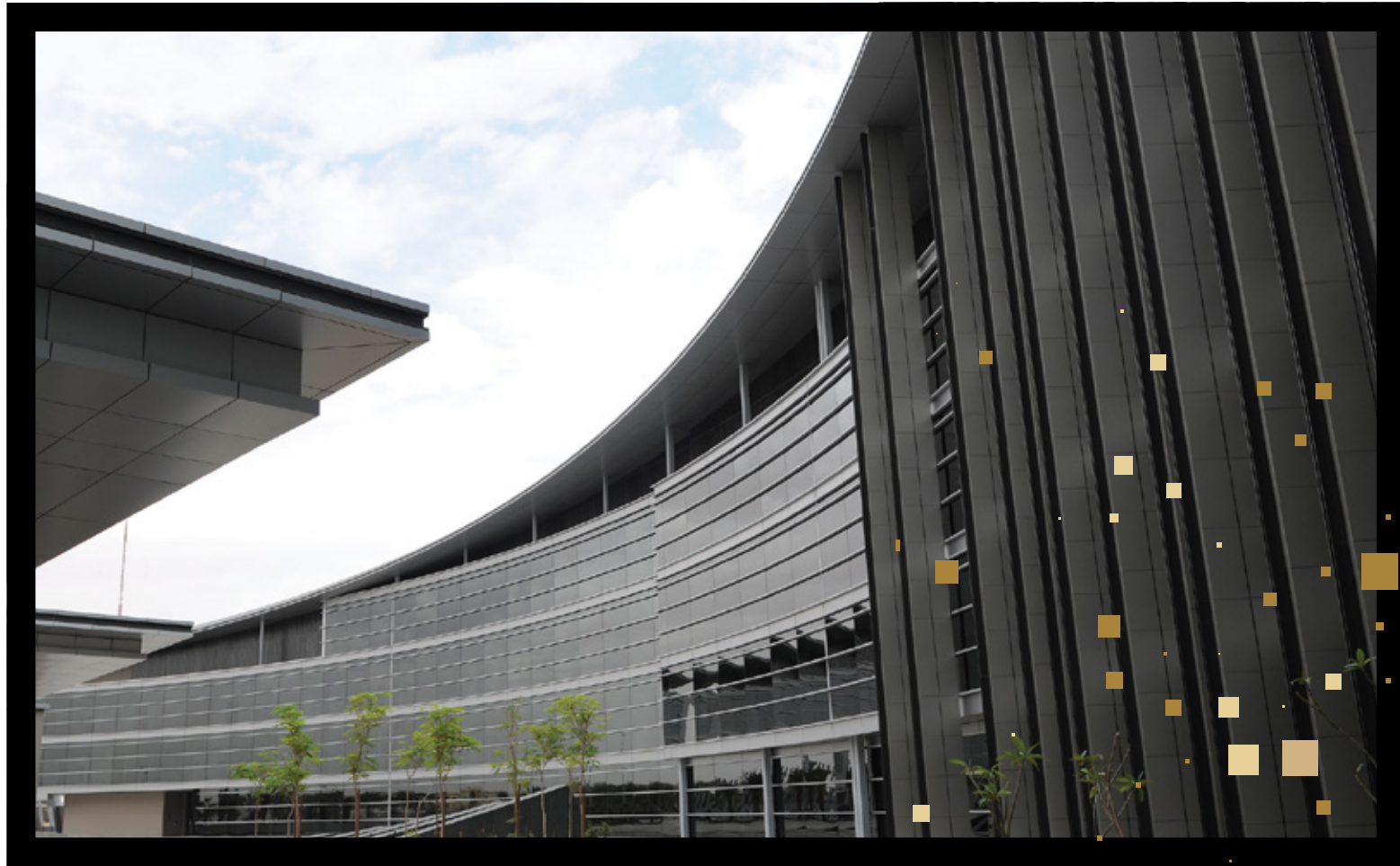
UAEUNews



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TheUAEUMedia



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## His Highness Sheikh Khalifa bin Zayed Al Nahyan

President of the UAE

Innovation, scientific research and a knowledge economy will create sustainable opportunity for our future generations. The new Science, Technology and Innovation Policy is a turning point in our march for development and progress.



## His Highness Sheikh Mohammed bin Rashid Al Maktoum

Vice President and Prime Minister of the UAE  
and Ruler of Dubai

Creativity and ideas can build countries and  
institutions. The future belongs to those  
generate ideas.





## H.E Zaki Anwar Nusseibeh

**Cultural Advisor to the UAE President and  
Chancellor of United Arab Emirates University**

The launch of the United Arab Emirates University innovation activities, in the “UAE Innovates 2021”, contributes to promoting the spread of knowledge and dedicating a culture of innovation to achieve sustainable development and wellbeing. In addition, the official interest that innovation has as a permanent culture in educational institutions in the country reflects the vision of the UAE leadership for future foresight and preparing for the next fifty years.

The United Arab Emirates University - University of the Future - is keen to prepare a generation of innovators who contribute to the growth and prosperity of the human being, support the country’s position in creativity and excellence, harness all capabilities and provide support to launch and implement innovative projects. Despite the exceptional circumstances the world is going through due to the Covid 19 pandemic, We at the United Arab Emirates University will launch a large package of multiple and distinct innovations for researchers, faculty members and students in the Innovation Month 2021 with diligence and adherence to the applicable preventive procedures and precautions.

We have dedicated innovative and specific events that vary through different activities, displaying innovations and developments in academic research, workshops and scientific conferences concerned with innovation and scientific excellence, stressing the university’s pioneering role in creating a suitable environment for its students to reach creative projects and innovations.

I thank the organizers of the innovation events and wish you all the success



## Prof. Ghaleb Al Hadrami Al Breiki

Acting Vice Chancellor of United Arab Emirates  
Universtiy

There is no doubt that the Innovation Month has become an annual hub and a major platform for launching creative ideas from scientific products and practical applications of the educational process and academic course outcomes.

We, at the United Arab Emirates University “University of the Future”, the leading national educational institution, are working on translating the directions of the UAE leadership and embodying the vision of creativity and innovation in all fields, especially in educational institutions that are the main incubator for innovation, through the students and faculty members innovative scientific projects. It comes as a natural response to developing our educational outputs in general and upgrading the academic process, as well as meeting the needs of the labor market of ideas and projects that keep pace with development in order to implement development projects in all fields in light of the knowledge economy, and in preparation for the next fifty years.

- Accordingly, the university has encouraged students and researchers to present their ideas and projects and make innovation a concept and a national platform and a means of sustainability for the optimal investment of the available potentials and capabilities. Especially the activities of “The UAE Innovates 2021” has distinct value this year as it is coinciding with the UAE Golden Jubilee celebrations.





## Vision, Mission & Goals of UAEU

### Vision

“Leadership and innovation in higher education, research and community service at national and international levels.”

### Mission

“UAEU will continue its positive contribution to the advancement of UAE by delivering undergraduate and graduate education that meets international standards, engaging effectively with the community and the world to foster knowledge creation and dissemination, and enhancing the research capacity of the country.”

### Goals

- Prepare students to be distinguished in their areas of specialization, leaders and productive members of society.
- Develop research capacity and innovation in areas of national and global importance.
- Expand international accreditation for the university and its academic programs and promote the university’s global reputation.
- Promote the University’s role in the transfer of knowledge and skills to serve the society.
- Ensure high quality, efficient and transparent administrative services.
- Entrench a culture of innovation in institutional work environment.



## Innovation Support Team



With an ambitious vision and innovations that make the impossible possible, and dreams a reality that creates the future, and in line with the directives of the UAE government regarding the importance of innovation and building of innovation culture .

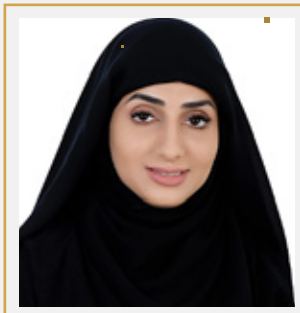
The United Arab Emirates University has created every year an atmosphere of innovation and excellence in conjunction with the UAE Innovation Month, which this year in the golden jubilee of a country that makes the impossible possible. At the beginning of February, it launches the “Hope Probe” that motivates us all to give and work in a spirit and determination to face and overcome the challenges.

Here, we celebrate innovation and innovators, so we can all participate hand in hand to cross the gateway to the future, armed with science and knowledge, and participate in the advancement and progress of the UAE.



# UAE Innovates 2021 Annals

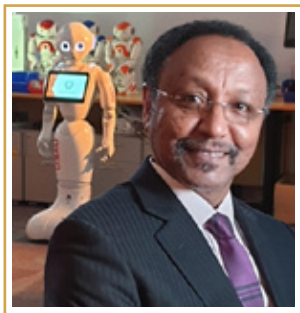
## Innovation Support Team



**Dr. Khaula Alkaabi**

**Position Title:** Chief Innovation Officer, Associate Professor, Chair of the CHSS Innovation Committee

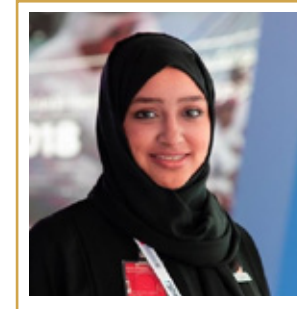
**College/Unit - Dept:** College of Humanities and Social Sciences (CHSS) – Geography and Urban Sustainability Department



**Dr. Abdelgadir Abuegasim**

**Position Title:** Associate Professor – Member at the CHSS Innovation Committee

**College/Unit - Dept:** College of Humanities and Social Sciences (CHSS) – Geography and Urban Sustainability Department



**Dr. Maysam AlAbbadi**

**Position Title:** Innovation & ENTR Lecturer, Chair of CBE Innovation Committee

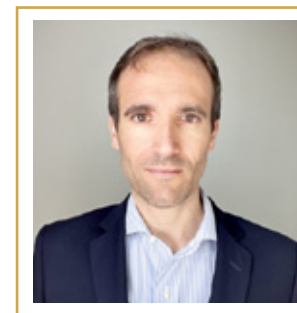
**College/Unit - Dept:** College of Business and Economics (CBE) - Innovation, Technology and Entrepreneurship Department



**Dr. Nabil Mohammed Bastaki**

**Position Title:** Assistant Dean for Research & Graduate Studies, Assistant Professor, Chair of the COE Innovation Committee

**College/Unit - Dept:** College of Engineering (COE) – Electrical Engineering Department



**Dr. Jose Lopez Berenguers**

**Position Title:** Associate Professor, Chair of CIT Innovation Committee

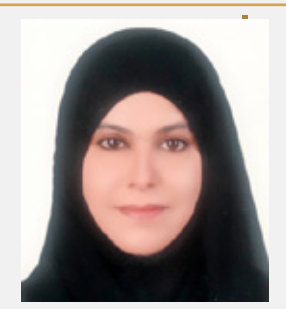
**College/Unit - Dept:** College of Information Technology (CIT) - Computer Science & Software Eng. Department



### Dawood Sulaiman Juma Al-Ajmi

**Position Title:** Assistant Professor - Chair of CFA Innovation Committee

**College/Unit - Dept:** College of Food and Agriculture (CFA) – Department of Integrative Agriculture



### Ousha Ahmed Al Mheiri.

**Position Title:** Assistant Dean for Student Affairs, Professor, Chair of COE Innovation Committee

**College/Unit - Dept:** College of Education (COE) - Special Education Department



### Hiba AlBlooshi

**Position Title:** Assistant Professor, Chair of CMHS Innovation Committee

**College/Unit - Dept:** College of Medicine and Health Sciences (CMHS) - Department of Genetics & Genomics



### Dr. Maysam AlAbbadi

**Position Title:** Innovation & ENTR Lecturer, Chair of CBE Innovation Committee

**College/Unit - Dept:** College of Business and Economics (CBE) - Innovation, Technology and Entrepreneurship Department



### Prof. Nihel Chabrak

**Position Title:** CEO – Professor

**College/Unit - Dept:** Science and Innovation Park



### Yaser E. Greish

**Position Title:** Professor, Chair of COS Innovation Committee

**College/Unit - Dept:** College of Science (COS) / Department of Chemistry

# List of Participants

at UAE Innovates Program

## College of Humanities & Social Sciences

- Survey Research Basics with Qualtrics
- The Geography of Innovation Book Review Workshop
- Assessment of Human Interaction and Spending Behavior Amidst Corona Virus in the United Arab Emirates
- Still-Life Drawing
- Innovation and Translation in the Digital Age
- Bio-Agricultural Geographies: Developmental Perspectives on the Adoption of Genetically Modified Crops
- Digital Image processing
- Artconnects
- Scientific Research Skills
- Multilingual World Cinema
- Innovation Cartography
- The theory of "Consonants and Vowels" in Arabic Language: a vision in the Articulation Disorders
- Artificial Intelligence in Journalism
- How Will Artificial Intelligence Affect the Field of Translation?
- Land subsidence phenomena in the Remah region, UAE, verified Persistent Scatterer Interferometry Techniques and Ground Truth Data
- 6th Joint UAE Symposium on Social Robotics - JSSR2021

## College of Information Technology

- How to Design Massive Multiplayer Online Games (Roblox, GoBattle.io case)
- Machine Learning and Tensorflow Tutorial
- 6th Joint UAE Symposium on Social Robotics - JSSR2021
- Artificial Intelligence-Blockchain and Cloud Computing for Smart Cities

## College of Science

- Earth Observation Satellites (EOS) for the Estimation of Carbon Sequestered in Date Palms (ton/ha)
- Development of a new resistivity-meter prototype (data acquisition to data modelling)
- Adventures in Self-assembly: From Molecules to Materials - Prof. Jonathan Sessler
- Plenty of Room at the Top - Prof. Stefan Wuttke
- Simulated Chemistry Experiments
- Monitoring Biosphere with Remote Sensing
- Emirates Mars Mission Dr. Roland Young
- PhD. & Master Students Presentations
- A cloud collision that produce high-mass stars in a nearby galaxy
- Key Elements of Space Exploration
- Mathematical Innovation

## College of Medicine & Health Sciences

- Rare Disease Day Virtual Showcase

### College of Engineering

- 6th International Conference on Renewable Energy Generation and Applications
- Innovation and Innovative Ideas
- Involving Emirati Women in the Pre-Occupancy Evaluation of 'Modern' Social Housing Designs: Simple Vs Advanced Participatory Tools
- Innovative Industrial Quality Control System for Advanced Technology
- Coral reef can protect waterfront from marine floods: Sustainable defense for UAE
- Innovative Industrial Quality Control System for Advanced Technology Modeling in RHINO Workshop
- Vertical Farming in Citizens Residential Blocks: An Innovative Sustainable Housing Approach in UAE
- Sketching in Architecture Workshop

### College of Education

- Innovation in Education in preparation for the fifty years
- Crises and the energy of creativity and innovation
- Innovative Student Award

### College of Law

- The role of intellectual property law in resolving disputes
- UAE Regulations Lab
- Fun Learning: the road to excellence
- Projects and Initiatives Card
- Creativity in legal research
- Panel Discussion on Robot Lawyers
- Student Innovations Exhibition
- Remote litigation
- Innovation in teaching and assessment of law courses

### College of Food & Agriculture

- Sustainable Innovations in UAE Food Industry: Their Antecedents and Consequences.
- Can home garden be a safe haven in times of crisis!?
- Future prospects in livestock farming
- Opportunities for Women in Agriculture in United Arab Emirates
- Innovation in Agriculture (open labs)
- The Place of High-Tech Food production system in the Future of UAE Food Security
- Is animal welfare at the cost of human welfare?
- LEA2 proteins from date palm and stress tolerance: versatile proteins for complex mechanisms
- A garden model in every neighborhood
- Chilean native food plants as a source of health-promoting compounds
- Innovative concepts for integrated water and nutrient management in plant production systems of Abu Dhabi'
- Innovation and Technology Applications for Food and Agriculture
- Geographic Information System and Remote Sensing Applications in Agriculture

### College of Business & Economics

- IDEA SOURCING
- SOFT SKILLS AND CREATIVE PROBLEM SOLVING
- SHE MEANS BUSINESS - EPISODE 1
- SHE MEANS BUSINESS - EPISODE 2
- UAEU YOUTH CIRCLE 1
- KEYS TO SELF CONTROL IN INNOVATION MANAGEMENT
- Sources of Innovation
- Transforming UAE into a Global Logistics Hub-I
- Transforming UAE into a Global Logistics Hub-II
- UAEU YOUTH CIRCLE 2
- LEADERSHIP PRACTICES IN INNOVATION
- Business Intelligence
- Database and Information Management
- INNOVATION IN STRATEGIC MANAGEMENT - EPISODE 1
- INNOVATION IN STRATEGIC MANAGEMENT - EPISODE 2
- UAEU YOUTH CIRCLE 3
- INNOVATION POST COVID-19 - EPISODE 1
- INNOVATION THROUGH MARKETING ANALYTICS
- Ideation in Marketing I
- Ideation in Marketing II
- INNOVATION POST COVID-19 - EPISODE 2
- Idea Generation
- INNOVATION IN STRATEGIC MANAGEMENT - EPISODE 3
- INNOVATION IN STRATEGIC MANAGEMENT - EPISODE 4
- UAEU YOUTH CIRCLE 4



**Innovation Support Team**

- Opening UAE Innovates 2021
- Chancellor's Innovation Award - Cycle 6 2020/2021

**UAEU Science & Innovation Park**

- 3D Printing I
- 3D Printing II
- Face Shields Production Cycle
- Laser Cutting I
- Laser Cutting II
- Signing Ceremony and Onboarding Session of the SIP Tenancy Support Program
- Gadget Factory -I
- Gadget Factory -II
- App Development
- App Development
- TouchLess Elevators Technology
- Hospitality Virtual Training by Typsy
- 6th Joint UAE Symposium on Social Robotics - JSSR2021

**National Water & Energy Center**

- Renewable Energy and Water Sustainability

**Continuing Education Center**

- Entrepreneurial Finance
- Navigating Market Opportunities
- Social Entrepreneurship
- Creativity and Innovation

**UAEU Libraries**

- Hackathon Digital Library

**Associate Provost for Research**

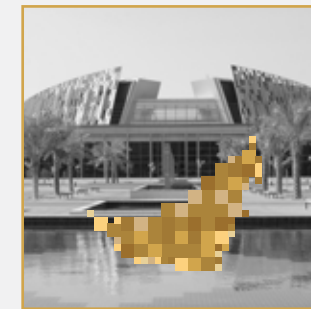
- A Ceremony to Recognize Inventors having Granted Patents in 2020

# Main Events



**6<sup>th</sup> International Conference on Renewable Energy Generation and Applications**

4-2 February 2021



**Opening UAE Innovates 2021**

21 February 2021



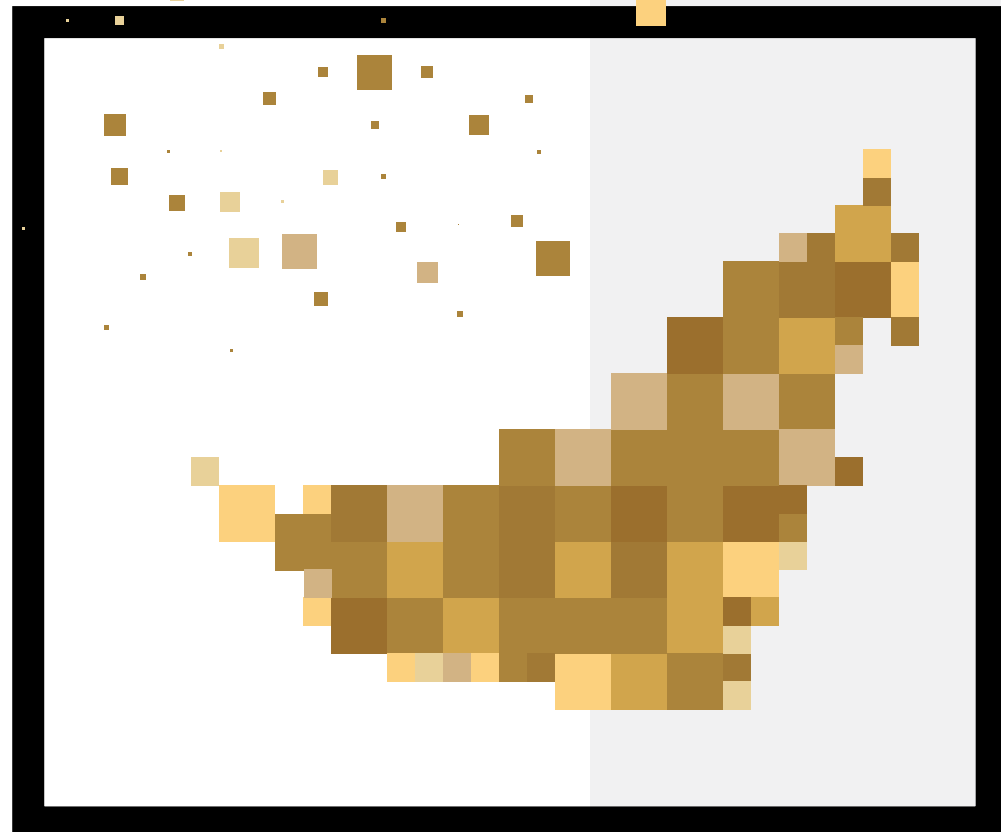
**Chancellor's Innovation Award - Cycle 6 2020/2021**

21 February 2021

## United Arab Emirates University

The UAE Innovates program will include many innovative activities. It includes lectures, workshops, innovation presentations, awards, developments in academic research and scientific discussions Seminars, brainstorming sessions and scientific conferences concerned with innovation and scientific excellence, stressing the role of the university in creating the appropriate environment for its students, researchers, and employees to transfer knowledge and develop creative projects and innovations. The main events will include:

- 6<sup>th</sup> International Conference on Renewable Energy Generation and Applications
- Innovation and Technology Applications for Food and Agriculture
- 6th Joint UAE Symposium on Social Robotics - JSSR2021

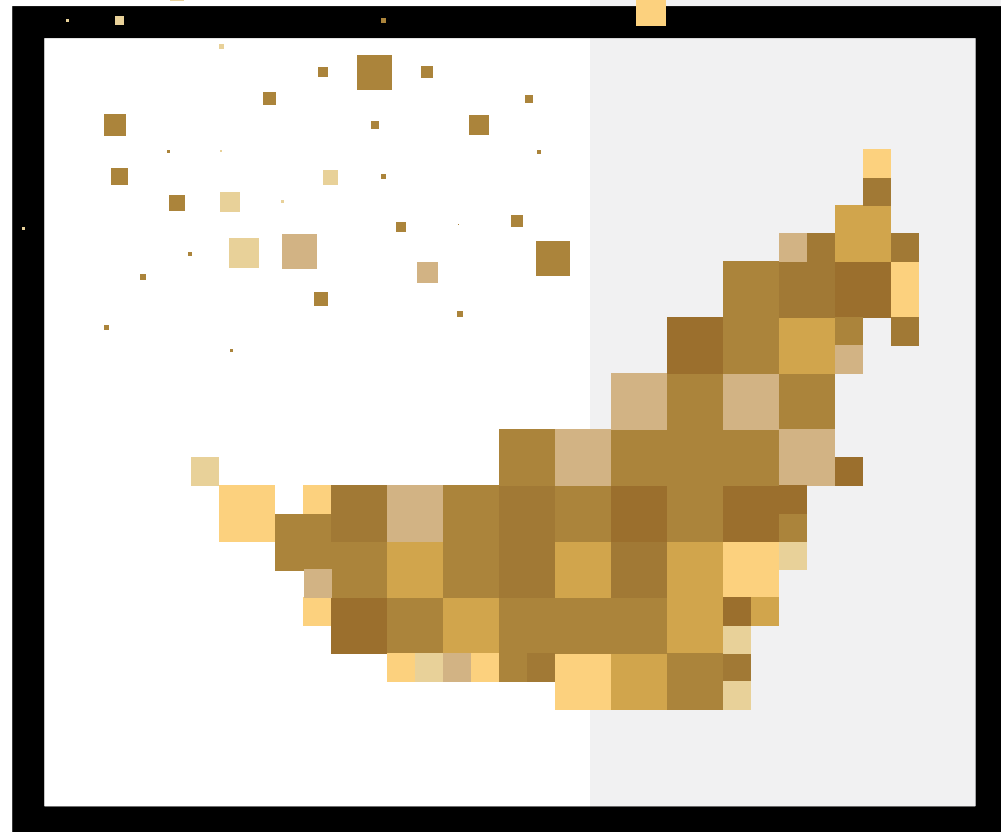


# Cont. Main Events

## United Arab Emirates University

Also, the main events will include:

- Opening UAE Innovates 2021
- Chancellor's Innovation Award - Cycle 6 2020/2021
- Rare Disease Day Virtual Showcase



## 6<sup>th</sup> Joint UAE Symposium on Social Robotics - JSSR2021

23 February 2021



## Innovation and Technology Applications for Food and Agriculture

24 February 2021



## Rare Disease Day Virtual Showcase

28 February 2021





# Events List of UAE Innovates Program





### 1 Entrepreneurial Finance

- English Certificate Program
- Monday 1 February 2021  
Sunday 21 February 2021
- At Your Pace
- Online
- Faculty Members - Students - Employees - Public Community

### 2 Navigating Market Opportunities

- English Certificate Program
- Monday 1 February 2021  
Sunday 21 February 2021
- At Your Pace
- Online
- Faculty Members - Students - Employees - Public Community

### 3 Social Entrepreneurship

- English Certificate Program
- Monday 1 February 2021  
Sunday 21 February 2021
- At Your Pace
- Online
- Faculty Members - Students - Employees - Public Community

### 4 Creativity and Innovation

- English Certificate Program
- Monday 1 February 2021  
Sunday 21 February 2021
- At Your Pace
- Online
- Faculty Members - Students - Employees - Public Community

### 5 6<sup>th</sup> International Conference on Renewable Energy Generation and Applications

- English Conference
- Tuesday 2 February 2021  
Thursday 4 February 2021
- 08:30 AM  
7:00 PM
- Online
- Faculty Members - Students - Employees - Public Community

### 6 IDEA SOURCING

- English Workshop
- Sunday 7 February 2021
- 2:00 PM  
3:30 PM
- Online
- Public Community

### 7 SOFT SKILLS AND CREATIVE PROBLEM SOLVING

- English Workshop
- Wednesday 10 February 2021
- 12:30 PM  
2:00 PM
- Online
- Public Community

### 8 SHE MEANS BUSINESS - EPISODE 1

- English Workshop
- Sunday 14 February 2021
- 3:30 PM  
6:30 PM
- Online
- Public Community

**9**

**SHE MEANS BUSINESS - EPISODE 2**

- English Workshop
- Monday 15 February 2021
- 3:30 PM - 6:30 PM
- Online
- Public Community

**Main Event**

**10**

**Opening UAE Innovates 2021**

- English Ceremony
- Sunday 21 February 2021
- 9:00 AM - 10:00 AM
- Online
- Faculty Members

**13**

**Artificial Intelligence-Blockchain and Cloud Computing for Smart Cities**

- English Workshop
- Sunday 21 February 2021
- 11:30 AM - 01:30 PM
- Online
- Faculty Members - Students - Employees - Public Community

**14**

**Crises and the energy of creativity and innovation**

- Arabic Workshop
- Sunday 21 February 2021
- 11:30 AM - 12:30 PM
- ZOOM
- Faculty Members - Students - Employees - Public Community

**Main Event**

**11**

**Chancellor's Innovation Award - Cycle 6 2020/2021**

- English Ceremony
- Sunday 21 February 2021
- 9:00 AM - 10:00 AM
- Online
- Faculty Members - Students - Employees - Public Community

**12**

**Sources of Innovation**

- English Lecture
- Sunday 21 February 2021
- 12:30 PM - 1:30 PM
- Online
- Students

**15**

**Innovation in Education in preparation for the fifty years**

- Arabic Workshop
- Sunday 21 February 2021
- 11:30 AM - 12:30 PM
- ZOOM
- Faculty Members - Students - Employees - Public Community

**16**

**Innovation and Innovative Ideas**

- English Showcase
- Sunday 21 February 2021
- 12:00 PM - 2:00 PM
- MS Teams
- Students

### The Geography of Innovation Book Review Workshop

17

- English Workshop
- Sunday 21 February 2021
- 10:00 AM  
11:15 AM
- Blackboard
- Students

### Assessment of Human Interaction and Spending Behavior Amidst Corona Virus in the United Arab Emirates

18

- English Lecture
- Sunday 21 February 2021
- 5:00 PM  
6:15 PM
- Blackboard
- Students

### Sustainable Innovations in UAE Food Industry: Their Antecedents and Consequences.

21

- English Lecture
- Sunday 21 February 2021
- 10:00 AM  
11:00 AM
- MS Teams
- اعضاء هيئة التدريس - الطلبة

### Can home garden be a safe haven in times of crisis!?

22

- English Lecture
- Sunday 21 February 2021
- 12:00 PM  
01:00 PM
- MS Teams
- Faculty Members - Students - Employees - Public Community

### Still-Life Drawing

19

- English Workshop
- Sunday 21 February 2021
- 9:15 AM  
11:20 AM
- Blackboard
- Students

### Involving Emirati Women in the Pre-Occupancy Evaluation of 'Modern' Social Housing Designs: Simple Vs Advanced Participatory Tools

20

- Arabic Lecture
- Sunday 21 February 2021
- 10:00 AM  
12:00 PM
- MS Teams
- Faculty Members - Students - Employees - Public Community

### The role of intellectual property law in resolving disputes

23

- English Lecture
- Sunday 21 February 2021
- 9:00 AM  
10:00 AM
- Blackboard
- Students







### 3D Printing I

24

- English Workshop
- Sunday 21 February 2021
- 10:00 AM  
12:00 PM
- ZOOM
- Faculty Members - Students - Employees - Public Community







### 3D Printing II

25

-  English Workshop
-  Sunday 21 February 2021
-  1:00 PM  
3:00 PM
-  **ZOOM** 
-  Faculty Members - Students - Employees - Public Community

### Earth Observation Satellites (EOS) for the Estimation of Carbon Sequestered in Date Palms (ton/ha)

26

-  English Lecture
-  Sunday 21 February 2021
-  11:00 AM  
12:00 PM
-  **ZOOM**  Meeting ID: 927 5261 2468  
One tap mobile
-  Researchers







### How to Design Massive Multiplayer Online Games (Roblox, GoBattle.io case)

29

-  English Competition; Lecture
-  Sunday 21 February 2021
-  1:00 PM  
2:00 PM
-  **Online** 
-  Students - Public Community







### UAEU YOUTH CIRCLE 1

30

-  English Brainstorming
-  Sunday 21 February 2021
-  11:00 AM  
12:00 PM
-  **Online** 
-  Students







### Development of a new resistivity-meter prototype (data acquisition to data modelling)

27

-  English Lecture
-  Sunday 21 February 2021
-  1:00 PM  
2:00 PM
-  **ZOOM**  Meeting ID: 925 3811 1785  
Password: 471003
-  Faculty Members - Students - Employees

### Innovation and Translation in the Digital Age

28

-  English Workshop
-  Sunday 21 February 2021
-  12:30 PM  
1:45 PM
-  **Blackboard** 
-  Students

### KEYS TO SELF CONTROL IN INNOVATION MANAGEMENT







31

-  English Workshop
-  Sunday 21 February 2021
-  5:00 PM  
6:00 PM
-  **Online** 
-  Public Community

In cooperation with the Khalifa Award for Education

### United Arab Emirates is an Inspiring Model for Innovation

32

-  Arabic Dialogue
-  Monday 22 February 2021
-  6:30 PM  
7:30 PM
-  **ZOOM** 
-  Faculty Members - Students - Employees - Public Community



**33**

**Future prospects in livestock farming**

- English Lecture
- Monday 22 February 2021
- 2:00 PM - 3:00 PM
- MS Teams
- Students

**34**

**Innovative Industrial Quality Control System for Advanced Technology**

- English Showcase
- Monday 22 February 2021
- 10:00 AM - 12:00 PM
- ZOOM Meeting ID: 924 8577 7971 Password: 379897
- Faculty Members - Students - Employees - Public Community

**37**

**Bio-Agricultural Geographies: Developmental Perspectives on the Adoption of Genetically Modified Crops**

- English Lecture
- Monday 22 February 2021
- 6:00 PM - 7:50 PM
- Blackboard
- Students

**38**

**Digital Image processing**

- English Lecture
- Monday 22 February 2021
- 11:00 AM - 12:00 PM
- Blackboard
- Students

**35**

**UAE Regulations Lab**

- Arabic Lecture
- Monday 22 February 2021
- 8:00 AM - 8:15 AM
- Blackboard
- Students

**36**

**Fun Learning: the road to excellence**

- Arabic Workshop
- Monday 22 February 2021
- 11:00 AM - 12:00 PM
- Blackboard
- Students

**39**

**Projects and Initiatives Card**

- English Workshop
- Monday 22 February 2021
- 11:00 AM - 12:30 PM
- MS Teams
- Faculty Members - Students - Employees

**40**

**Creativity in legal research**

- Arabic Lecture
- Monday 22 February 2021
- 5:00 PM - 6:00 PM
- ZOOM
- Students

**41 Opportunities for Women in Agriculture in United Arab Emirates**

- English Lecture
- Monday 22 February 2021
- 10:00 AM - 11:00 AM
- MS Teams
- Faculty Members - Students - Employees - Public Community

**42 Innovation in Agriculture (open labs)**

- English Workshop
- Monday 22 February 2021
- 11:00 AM - 02:00 PM
- MS Teams
- Students

**45 Laser Cutting I**

- English Workshop
- Monday 22 February 2021
- 10:00 AM - 12:00 PM
- ZOOM
- Faculty Members - Students - Employees - Public Community

**46 Laser Cutting II**

- Arabic Workshop
- Monday 22 February 2021
- 1:00 PM - 3:00 PM
- ZOOM
- Faculty Members

**43 The Place of High-Tech Food production system in the Future of UAE Food Security**

- English Lecture
- Monday 22 February 2021
- 9:00 AM - 10:00 AM
- MS Teams
- Faculty Members - Students

**44 Face Shields Production Cycle**

- English Workshop
- Monday 22 February 2021
- 10:00 AM - 12:30 PM
- ZOOM
- Faculty Members - Students - Employees - Public Community

**47 Adventures in Self-assembly: From Molecules to Materials - Prof. Jonathan Sessler**

- English Lecture
- Monday 22 February 2021
- 6:00 PM - 7:00 PM
- ZOOM Meeting ID: 280 967 8589 Passcode: 8bTVV3
- Faculty Members - Students - Employees - Public Community

**48 A Ceremony to Recognize Inventors having granted Patents in 2020**

- English - Arabic Ceremony
- Monday 22 February 2021
- 11:00 AM - 11:40 AM
- ZOOM
- Students

**49**

**Transforming UAE into a Global Logistics Hub-I**

- English Lecture
- Monday 22 February 2021
- 12:30 PM  
1:30 PM
- Online
- Students

**50**

**Transforming UAE into a Global Logistics Hub-II**

- English Lecture
- Monday 22 February 2021
- 2:00 PM  
3:00 PM
- Online
- Students

**53**

**Business Intelligence**

- English Lecture
- Monday 22 February 2021
- 11:00 AM  
12:00 PM
- Online
- Students

**54**

**Database and Information Management**

- English Lecture
- Monday 22 February 2021
- 12:30 PM  
1:30 PM
- Online
- Students

**51**

**UAEU YOUTH CIRCLE 2**

- English Brainstorming
- Monday 22 February 2021
- 11:00 AM  
12:00 PM
- Online
- Students

**52**

**LEADERSHIP PRACTICES IN INNOVATION**

- English Lecture
- Monday 22 February 2021
- 5:00 PM  
6:00 PM
- Online
- Students

**55**

**Hackathon Digital library**

- English Hackathon
- Monday 22 February 2021  
Tuesday 23 February 2021
- 10:00 AM  
3:00 PM
- MS Teams
- Students

**56**

**Artconnects**

- English Workshop
- Tuesday 23 February 2021
- 1:00 PM  
4:00 PM
- ZOOM
- Students

**57**

**Innovative Student Award**

- Arabic Award
- Tuesday 23 February 2021
- 11:00 AM - 12:30 PM
- ZOOM
- Faculty Members - Students - Employees - Public Community

**58**

**Is animal welfare at the cost of human welfare?**

- English Lecture
- Tuesday 23 February 2021
- 10:00 AM - 10:30 AM
- MS Teams
- Faculty Members - Students - Employees - Public Community

**61**

**Scientific Research Skills**

- English Lecture
- Tuesday 23 February 2021
- 2:00 PM - 3:15 PM
- Blackboard
- Public Community

**62**

**Signing Ceremony and Onboarding Session of the SIP Tenancy Support Program**

- Arabic Ceremony
- Tuesday 23 February 2021
- 12:00 PM - 2:00 PM
- ZOOM
- Faculty Members

**59**

**Panel Discussion on Robot Lawyers**

- Arabic Brainstorming
- Tuesday 23 February 2021
- 10:00 AM - 10:50 AM
- Online
- Students

**60**

**Coral reef can protect waterfront from marine floods: Sustainable defense for UAE**

- English Showcase; Lab
- Tuesday 23 February 2021 - Saturday 27 February 2021
- 10:00 AM - 3:00 PM
- Fluids Lab
- Students

**63**

**Multilingual World Cinema**

- English Workshop
- Tuesday 23 February 2021
- 8:00 AM - 9:00 AM
- Blackboard
- Faculty Members - Students

**64**

**Innovation Cartography**

- English Workshop
- Tuesday 23 February 2021
- 10:00 AM - 11:15 AM
- Blackboard
- Students

**The Theory of “Consonants and Vowels” in Arabic Language: a Vision in the Articulation Disorders**

65

- Arabic Lecture
- Tuesday 23 February 2021
- 12:30 PM  
1:45 PM
- Blackboard
- Students - Employees

**Student Innovations Exhibition**

66

- English Exhibition
- Tuesday 23 February 2021
- 11:30 AM  
12:30 PM
- MS Teams
- Faculty Members - Students - Employees

**A garden model in every neighborhood**

69

- English Workshop
- Tuesday 23 February 2021
- 2:00 PM  
3:00 PM
- MS Teams
- Faculty Members - Students - Employees - Public Community

Main Event

**6<sup>th</sup> Joint UAE Symposium on Social Robotics - JSSR2021**

70

- Arabic Symposium
- Tuesday 23 February 2021
- 11:00 AM  
5:00 PM
- ZOOM
- Faculty Members - Students - Employees

**Remote Litigation**

67

- Arabic Lecture
- Tuesday 23 February 2021
- 8:00 AM  
9:15 AM
- Blackboard
- Faculty Members - Students

**LEA2 proteins from date palm and stress tolerance: versatile proteins for complex mechanisms**

68

- English Lecture
- Tuesday 23 February 2021
- 12:00 PM  
01:00 PM
- MS Teams
- Faculty Members - Students - Employees - Public Community

**Gadget Factory - I**

71

- English Workshop
- Tuesday 23 February 2021
- 1:00 PM  
2:30 PM
- ZOOM
- Faculty Members - Students - Employees - Public Community







**Gadget Factory - II**

72

- English Workshop
- Tuesday 23 February 2021
- 10:00 AM  
11:30 AM
- ZOOM
- Faculty Members - Students - Employees - Public Community







### App Development - I

73

-  English Workshop
-  Tuesday 23 February 2021
-  10:00 AM  
12:00 PM
-  ZOOM 
-  Faculty Members - Students - Employees - Public Community







### App Development -II

74

-  English Workshop
-  Tuesday 23 February 2021
-  1:00 PM  
3:00 PM
-  ZOOM 
-  Faculty Members - Students - Employees - Public Community







### Simulated Chemistry Experiments

77

-  English Workshop
-  Tuesday 23 February 2021
-  10:00 AM  
2:00 PM
-  ZOOM  Meeting ID: 917 1411 9295  
Password: 355148
-  Students







### Chilean native food plants as a source of health-promoting compounds

78

-  Arabic Lecture
-  Tuesday 23 February 2021
-  05:00 PM  
06:00 PM
-  ZOOM  Meeting ID: 958 2353 5878  
One tap mobile
-  Faculty Members - Students - Employees - Public Community







### TouchLess Elevators Technology

75

-  English Workshop
-  Tuesday 23 February 2021
-  10:00 AM  
3:00 PM
-  ZOOM 
-  Faculty Members - Students - Employees - Public Community







### Plenty of Room at the Top - Prof. Stefan Wuttke

76

-  English Lecture
-  Tuesday 23 February 2021
-  6:00 PM  
7:00 PM
-  ZOOM  Meeting ID: 749 9496 7202  
Passcode: Qm25JV
-  Faculty Members - Students - Employees - Public Community







### Innovative concepts for integrated water and nutrient management in plant production systems of Abu Dhabi'

79

-  English Workshop
-  Tuesday 23 February 2021
-  09:00 AM  
10:00 AM
-  MS Teams 
-  Students

### INNOVATION IN STRATEGIC MANAGEMENT - EPISODE 1

80

-  English Lecture
-  Tuesday 23 February 2021
-  2:00 PM  
3:00 PM
-  Online 
-  Students

**81**

**INNOVATION IN STRATEGIC MANAGEMENT - EPISODE 2**

- English Lecture
- Tuesday 23 February 2021
- 3:30 PM - 4:30 PM
- Online
- Students

**82**

**UAEU YOUTH CIRCLE 3**

- English Brainstorming
- Tuesday 23 February 2021
- 11:00 AM - 12:00 PM
- Online
- Students

**85**

**Innovative Industrial Quality Control System for Advanced Technology**

- English Showcase
- Wednesday 24 February 2021
- 10:00 AM - 12:00 PM
- ZOOM Meeting ID: 994 8629 7237 Password: 807716
- Faculty Members - Students - Employees - Public Community

**86**

**Modeling in RHINO Workshop**

- Arabic Workshop
- Wednesday 24 February 2021
- 10:00 AM - 11:00 AM
- MS Teams
- Students

**83**

**INNOVATION POST COVID-19 - EPISODE 1**

- English Workshop
- Tuesday 23 February 2021
- 11:00 AM - 12:00 PM
- Online
- Students

**Main Event**

**84**

**Innovation and Technology Applications for Food and Agriculture**

- English Conference
- Wednesday 24 February 2021
- 09:00 AM - 04:00 PM
- MS Teams
- Faculty Members

**87**

**Vertical Farming in Citizens Residential Blocks: An Innovative Sustainable Housing Approach in UAE**

- English Lecture
- Wednesday 24 February 2021
- 11:00 AM - 12:00 PM
- MS Teams
- Faculty Members - Students

**88**







**Renewable Energy and Water Sustainability**

- English Symposium
- Wednesday 24 February 2021
- 3:00 PM - 5:00 PM
- ZOOM Meeting ID: 987 5330 2819 Password: 351151
- Faculty Members - Students - Employees - Public Community









### Artificial Intelligence in Journalism

89

-  Arabic Workshop
-  Wednesday 24 February 2021
-  11:30 AM  
01:00 PM
-  **ZOOM**  Meeting ID: 930 1202 6336  
Password: 925952
-  Faculty Members







### Monitoring Biosphere with Remote Sensing

90

-  English Lecture
-  Wednesday 24 February 2021
-  11:00 AM  
12:00 PM
-  **ZOOM**  Meeting ID: 936 6001 8337  
Password: 796959
-  Faculty Members - Students - Employees







### How Will Artificial Intelligence Affect the Field of Translation?

93

-  Arabic Lecture
-  Wednesday 24 February 2021
-  5:00 PM  
6:00 PM
-  **ZOOM**  Meeting ID: 927 9245 2309  
Password: 724210
-  Faculty Members - Students







### INNOVATION THROUGH MARKETING ANALYTICS

94

-  English Lecture
-  Wednesday 24 February 2021
-  11:00 AM  
12:00 PM
-  **Online** 
-  Students







### Emirates Mars Mission Dr. Roland Young

91

-  English Lecture
-  Wednesday 24 February 2021
-  11:00 AM  
12:00 PM
-  **ZOOM**  Meeting ID: 927 9245 2309  
Password: 724208
-  Faculty Members - Students - Employees







### PhD. & Master Students Presentations

92

-  English Showcase
-  Wednesday 24 February 2021
-  12:00 PM  
2:00 PM
-  **ZOOM**  Meeting ID: 927 9245 2309  
Password: 724209
-  Faculty Members - Students - Employees







### Ideation in Marketing I

95

-  English Workshop
-  Wednesday 24 February 2021
-  10:00 AM  
11:00 AM
-  **Online** 
-  Students







### Ideation in Marketing II

96

-  English Workshop
-  Wednesday 24 February 2021
-  2:00 PM  
3:00 PM
-  **Online** 
-  Students







**INNOVATION POST COVID-19 - EPISODE 2**

97

-  English Workshop
-  Wednesday 24 February 2021
-  11:00 AM - 12:00 PM
-  Online 
-  Students







**Hospitality Virtual Training by Typsy**

98

-  English Workshop
-  Thursday 25 February 2021
-  10:00 AM - 12:00 PM
-  ZOOM 
-  Faculty Members - Students - Employees - Public Community







**Sketching in Architecture Workshop**

101

-  Arabic Workshop
-  Thursday 25 February 2021
-  11:00 AM - 12:00 PM
-  MS Teams 
-  Students







**Machine Learning and Tensorflow Tutorial**

102

-  English Workshop
-  Thursday 25 February 2021
-  11:00 AM - 2:00 PM
-  ZOOM 
-  Students







**Survey Research Basics with Qualtrics**

99

-  English Workshop
-  Thursday 25 February 2021
-  10:00 AM - 11:30 AM
-  ZOOM 
-  Faculty Members - Students







**Geographic Information System and Remote Sensing Applications in Agriculture**

100

-  English Symposium
-  Thursday 25 February 2021
-  10:00 AM - 12:00 PM
-  MS Teams 
-  Faculty Members - Students - Employees - Public Community







**Innovation in teaching and assessment of law courses**

103

-  Arabic Workshop
-  Thursday 25 February 2021
-  11:00 AM - 12:00 PM
-  Blackboard 
-  Faculty Members

**A cloud collision that produce high-mass stars in a nearby galaxy**

104

-  English Lecture
-  Thursday 25 February 2021
-  11:00 AM - 12:00 PM
-  ZOOM  Meeting ID: 925 3895 3198  
Password: 270498
-  Faculty Members - Students - Employees

**105**

### Key Elements of Space Exploration

- English Lecture
- Thursday 25 February 2021
- 12:00 PM - 1:00 PM
- ZOOM** Meeting ID: 925 3895 3198 Password: 270498
- Faculty Members - Students - Employees

**106**

### Mathematical Innovation

- English Lecture
- Thursday 25 February 2021
- 10:00 AM - 2:00 PM
- ZOOM** Meeting ID: 916 6124 2784 Password: 209387
- Experts in Mathematics

**109**

### Land subsidence phenomena in the Remah region, UAE, verified Persistent Scatterer Interferometry Techniques and Ground Truth Data

- Arabic Lecture
- Sunday 28 February 2021
- 3:30 PM - 5:00 PM
- ZOOM**
- Faculty Members - Students - Employees - Public Community

**110**

### INNOVATION IN STRATEGIC MANAGEMENT - EPISODE 3

- English Workshop
- Sunday 28 February 2021
- 2:00 PM - 3:00 PM
- Online
- Students

**107**

### Idea Generation

- English Workshop
- Thursday 25 February 2021
- 4:00 PM - 5:00 PM
- Online
- Students

**Main Event**

**108**

### Rare Disease Day Virtual Showcase

- English Showcase
- Sunday 28 February 2021
- 10:00 AM - 12:00 PM
- ZOOM**
- Faculty Members - Students - Employees - Public Community

**111**

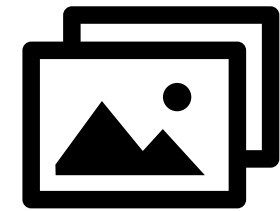
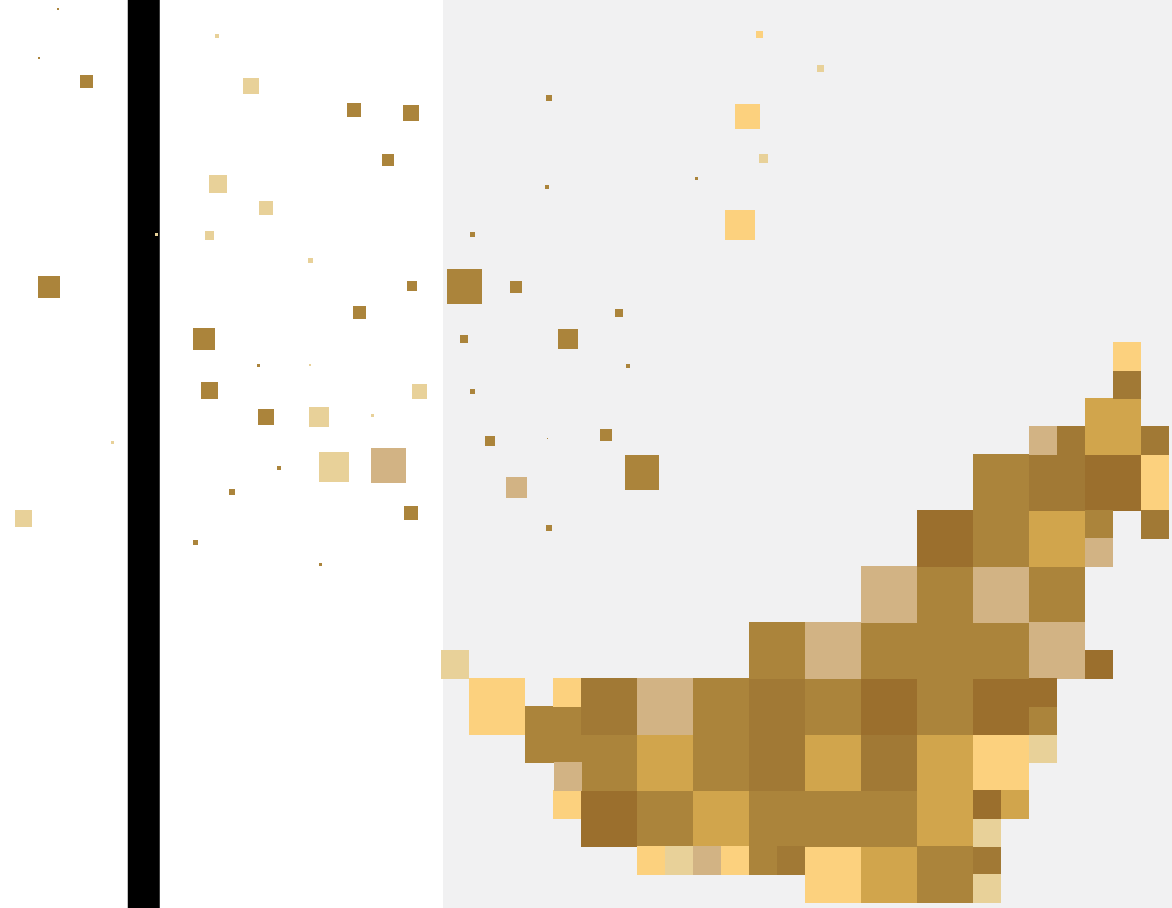
### INNOVATION IN STRATEGIC MANAGEMENT - EPISODE 4

- English Workshop
- Sunday 28 February 2021
- 3:30 PM - 4:30 PM
- Online
- Students

**112**


### UAEU YOUTH CIRCLE 4

- English Brainstorming
- Sunday 28 February 2021
- 11:00 AM - 12:00 PM
- ZOOM**
- Students



# UAE Innovates 2021 Photo Gallery






 جامعة الإمارات العربية المتحدة  
 United Arab Emirates University

All thanks and appreciation to those who worked on the success of the "UAE Innovates 2021" activities, despite the circumstances caused by the Corona pandemic, but there are creative minds who constantly support the National Innovation Strategy and work hard to create an enabling environment for the culture of innovation and contribute to strengthening the position of the UAE as a global innovation hub in preparation for the celebration of the UAE golden jubilee.

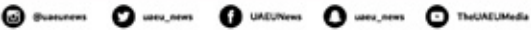
We value these distinguished efforts in highlighting the innovations and research of UAEU students and professors at the international level through seminars, conferences and international workshops with an ambitious future vision, which would enhance the culture of innovation and find solutions and ideas that serve and advance the community at all levels.

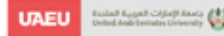
Wish You All the Best  
**H. E. Zaki Anwar Nusseibeh**




 الإمارات تبتكر  
 UAE INNOVATES  
 2021 فبراير 2021

UAE INNOVATES - UAEU



 @uainnews uaeu\_news UAEU/News uaeu\_news TheUAEUMedia



 جامعة الإمارات العربية المتحدة  
 United Arab Emirates University

كل الشكر والتقدير لمن عمل على إنجاز فعاليات "الإمارات تبتكر 2021" بالرغم من الظروف التي تسببت بها جائحة كورونا. إلا أن هناك عقول مبدعة تدعم باستمرار الاستراتيجية الوطنية للابتكار وتعمل بجد من أجل صنع بيئة خلاقة ممكنة للثقافة الابتكار مما يساهم في تعزيز مكانة دولة الإمارات العربية المتحدة كمركز ابتكار عالمي استعداداً للاحتفال باليوبيل الذهبي لقيام الاتحاد.

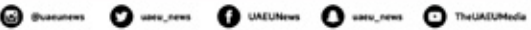
نتمن هذه الجهود المتميزة في إبراز ابتكارات وأبحاث طلبة وأساتذة جامعة الإمارات العربية المتحدة، أمام المجتمع الدولي من خلال ندوات ومؤتمرات وورش عمل دولية ذات رؤية مستقبلية طموحة، من شأنها تعزيز ثقافة الابتكار وإيجاد الحلول والابتكارات التي تخدم المجتمع وترتقي به على كافة الأصعدة.

كل الشكر لكم متمنياً لكم التوفيق والنجاح  
**معالي زكي أنور نسيبة**




 الإمارات تبتكر  
 UAE INNOVATES  
 2021 فبراير 2021

الإمارات تبتكر - جامعة الإمارات العربية المتحدة


 @uainnews uaeu\_news UAEU/News uaeu\_news TheUAEUMedia

# “ 6<sup>th</sup> International Conference on Renewable Energy: Generation and Applications” ICREGA’21

2-4 February 2021

## UAE University holds ICREGA'21 on Tuesday



**Date: February 01, 2021**

The UAE University is organising the “6th International Conference on Renewable Energy: Generation and Applications” ICREGA’21 to be held on Zoom from 2nd to 4th February, 2021.

Zaki Anwar Nusseibeh, Minister of State and Chancellor of the United Arab Emirates University (UAEU), will give a welcoming speech that sheds light on

UAE’s role in developing renewable energy resources, whether in UAE or by partnering with several industrial and developing countries to create more opportunities for industrial and sustainable development and protecting the natural environment.

Following the opening remarks by Dr. Mahmoud F. Al-Ahmad, Conference Chairman and Dr. Khaula Alkaabi, Conference Co-Chair, Suhail Mohamed Faraj Al-Mazrouei, Minister of Energy and Infrastructure, will participate in the conference through a panel discussion on UAE’s Energy Strategy 2050, aiming to increase the contribution of clean energy, reducing the carbon footprint of power generation and creating sustainable development, ICREGA’21 is one of the premier Renewable Energy events that brings together industry professionals, academics, and individuals from government agencies and other institutions to exchange information and ideas on the advancement in the field of renewable energy, generation, and applications.





The presentation slide features a central globe with colorful, swirling lines representing energy sources. The labels around the globe are: Thermal Power, Wind Power, Photo Voltaic, Energy, Hydropower, Bio-Mass, and Waste-to-Energy.

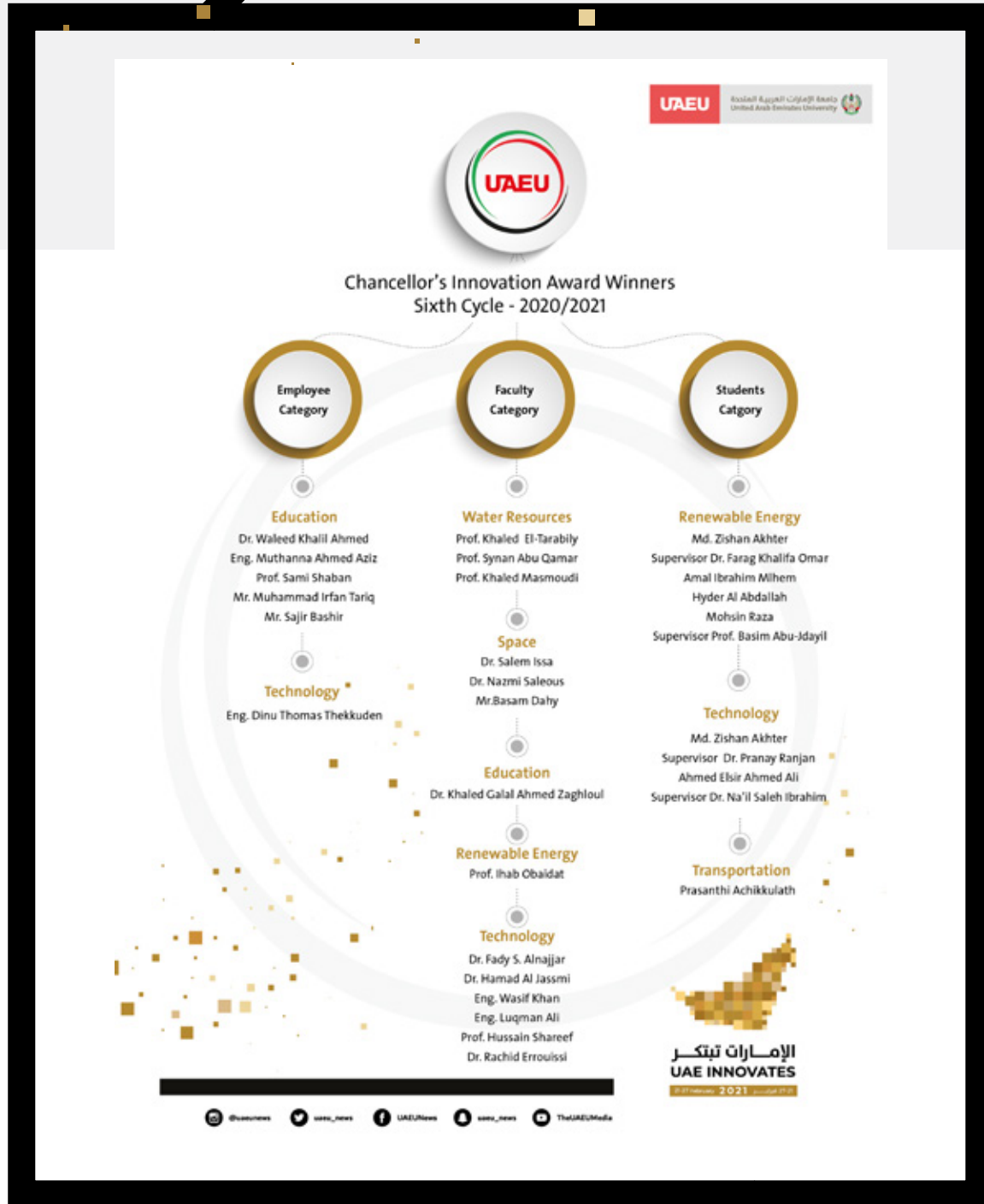
Below the globe, there is a section titled "Zero-Power Wireless 3D/Inkjet-printed 'Electronic Nose'". The text describes it as a "Real-time multi-agent selective 'chipless' sensing down to 50ppb at 50m+ range in seconds" and lists "Simultaneous detection of:"

- Organophosphate
- Ammonia
- Humidity
- Temperature

There are two graphs showing frequency shifts over time for different agents. The first graph shows a sharp increase in frequency for organophosphate, while the second graph shows a sharp increase for ammonia. A small image of the sensor chip is also shown.

The video conference window displays a grid of participants. The top row includes a man in a suit, a woman in a black hijab, and a man in a thobe. The middle row shows a man with glasses and a headset, a man in a thobe, and a man in a suit. The bottom row features a man in a thobe as the primary focus, with a smaller inset of a man in a suit. The background of the main window shows a bookshelf and a UAE flag.











# 6<sup>th</sup> Joint UAE Symposium on Social Robotics - JSSR2021

23 February 2021

JSSR2021

**Forthcoming Book**  
*robots in Education*, Routledge

presented by  
**Dr. Max Cappuccio**

UNIVERSITÄT BIELEFELD

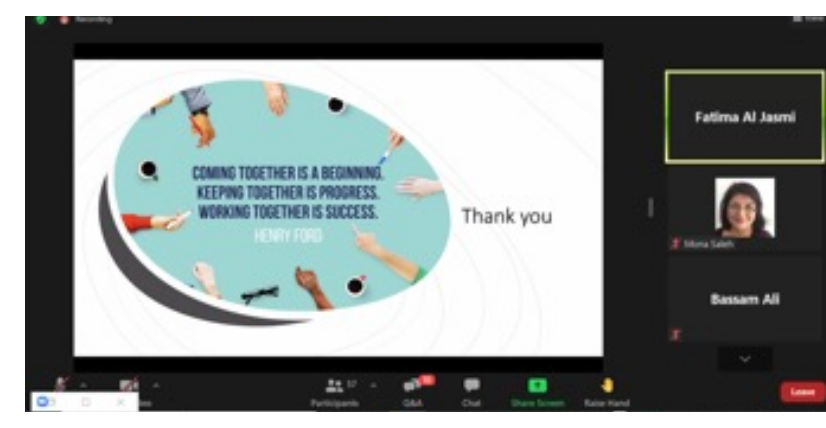
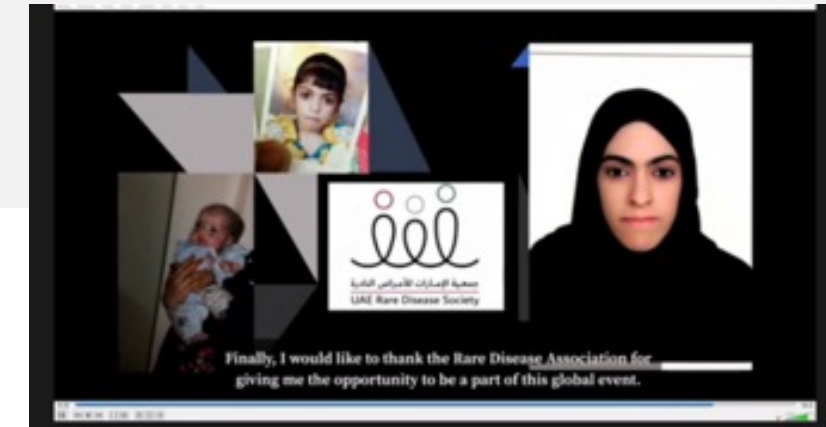
UAEU JSSR2021 NYU ABU DHABI

Welcome Address by  
**Prof. Hassan Naboodah**  
Dean of the College of Humanities and Social Sciences - UAEU

UNSW UNIVERSITÄT BIELEFELD

# Rare Disease Day Virtual Showcase

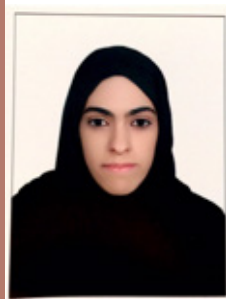
28 February 2021



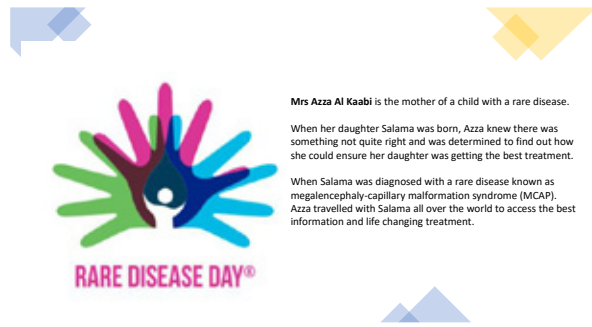


**Prof. Fatma Al Jasmi** is Chair of Genetic & Genomic department, at College of Medicine & Health science, UAE University, Al Ain. Metabolic consultant at Tawam Hospital. She did her undergraduate studies at UAE University, UAE and graduated in 2000 with bachelor's in medicine and health science. She pursued her postgraduate studies at University of Toronto, and Hospital for Sick Children, Canada. In 2006, Prof. Al Jasmi received Canadian Board of Pediatrics after completing the Pediatric residency program. Subsequently, she did her fellowship in biochemical genetics and in 2008 and certified with Canadian College of Medical Genetics Board (Biochemical Genetics). She participated in the expanding of national newborn screening and the premarital screening pilot study using Whole Exome sequencing. She organized and participated in numerous national and international conferences aiming to advance rare diseases community awareness, education and clinical sciences. She collaborated with numerous national and international clinical scientist to enhance rare metabolic disease research and clinical service. Prof. Al Jasmi research involved Oxygen analyzer as a screening tool for disorders of impaired cellular bioenergetics, prevalence of inborn errors of metabolism in United Arab Emirates, Newborn screening in UAE, Whole exome sequencing for inborn errors of metabolism, mitochondrial DNA variation, lysosomal storage disorders, Peroxisomal disorders in addition to identification of biomarker for propionate metabolism. Dr. Al Jasmi is one of the founder of UAE rare disease society. Prof. Al Jasmi established the biochemical Genetic Fellowship at UAEU in collaboration with Tawam hospital and graduated two prominent Emirati consultants.

She is recipient of Prime Minister Award for excellence in a specialized job (2017) Chancellors' Innovation Award (2015) Women in Science (WIS) Hall of Fame as an outstanding woman in science throughout the Middle East North Africa region (2015) and L'Oréal UNESCO For Women in Science Pan Arab award (2013) Sheikh Rashid Bin Saeed Al-Maktoum Award for Excellent Achievements in Medicine (2000).



**Ms Salama Alnuaimi** is a woman living with a rare disease known as Epidermolysis Bullosa (EB). Salama has faced the condition head on and learnt to manage her many challenges and turn them into opportunities. She has made connections with others who have EB from all over the world and continues to raise awareness. Salama speaks of the support her family gives her which she in turn would like to share with others who need it. Determined not to let her health become a set back, Salama's hard work has enabled her to complete a degree and works as a lawyer.



**Mrs Azza Al Kaabi** is the mother of a child with a rare disease. When her daughter Salama was born, Azza knew there was something not quite right and was determined to find out how she could ensure her daughter was getting the best treatment. When Salama was diagnosed with a rare disease known as megalencephaly-capillary malformation syndrome (MCAFS), Azza travelled with Salama all over the world to access the best information and life changing treatment.



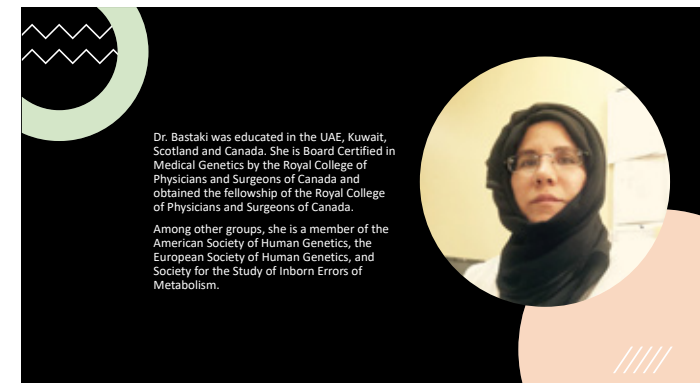
**Dr Nadia Akawi** is a medical geneticist, assistant professor at the United Arab Emirates University. In parallel, she is a senior research fellow at the University of Oxford. Her main research interest lies in the interpretation and integration of various omics data in order to better understand the molecular mechanism and genetic architecture of rare and complex human diseases. She is a member of the British Society for Genetic Medicine (BSGM) and a member of the Clinical Genetic Science (ACGS). She published over 41 peer-reviewed articles (1565 citations, h-index of 14) in international scientific journals, including Nature Genetics, Nature Communications and Science.

**Dr Mona Saleh** is an Assistant Professor at UAEU and is developing the curriculum for the first Masters program to train genetic counselors in the UAE.



**Mona** is an Australian Genetic Counselor with a PhD in Medicine and extensive clinical, research and academic experience.

**Mona** is a Fellow (Genetic Counselling) of the Human Genetics Society of Australasia and has received a number of awards for her contribution to the profession of genetic counseling in Australasia



**Dr. Bastaki** was educated in the UAE, Kuwait, Scotland and Canada. She is Board Certified in Medical Genetics by the Royal College of Physicians and Surgeons of Canada and obtained the fellowship of the Royal College of Physicians and Surgeons of Canada.

Among other groups, she is a member of the American Society of Human Genetics, the European Society of Human Genetics, and Society for the Study of Inborn Errors of Metabolism.



# Bio-Agricultural Geographies: Developmental Perspectives on the Adoption of Genetically Modified Crops

22 February 2021

**Bio-Agricultural Geographies:  
Developmental Perspectives on the  
Adoption of Genetically Modified Crops**  
Dr. Robert M. Bridi

**Introduction**

- From the time that human crop cultivation began, farmers have attempted to improve the genetic makeup of plants.
- Genetically modified (GM) crops (also referred to as genetically modified organisms (GMOs) or transgenic crops) are developed by a process of genetic modification (also referred to as genetic engineering or recombinant DNA technology), which allows individual genes from related or unrelated species to be inserted from one organism into another to enhance or suppress specific traits.

**Contribution to the Academic Literature**

- The paper provides a critical review of a 'slice' of the burgeoning academic literature on GM crops.
- The focus is on two interrelated themes: first, science, human development, and poverty; and second intellectual property rights, safety, and bio-politics.
- I argue that, on the one hand, much of the promise that GM crops are touted to offer hungry poor people living in the Global South is predicated on a neo-Malthusian argument that emphasizes a technologically determinist solution at the negation of the social aspects confronting the poor.
- On the other hand, the introduction of IP rights has been an effective capital accumulation strategy. This is an exemplar of capital's struggle to accumulate in agriculture by intensifying farmers' dependence upon seeds protected by IP rights, which conflicts directly with the rights of farmers to reproduce, share or store seeds.



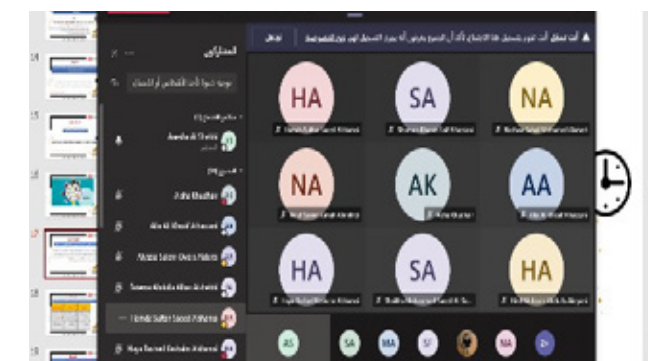
# Workshop: Projects and Initiatives Card

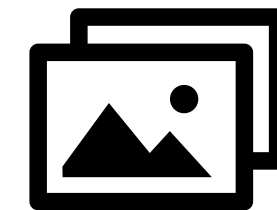
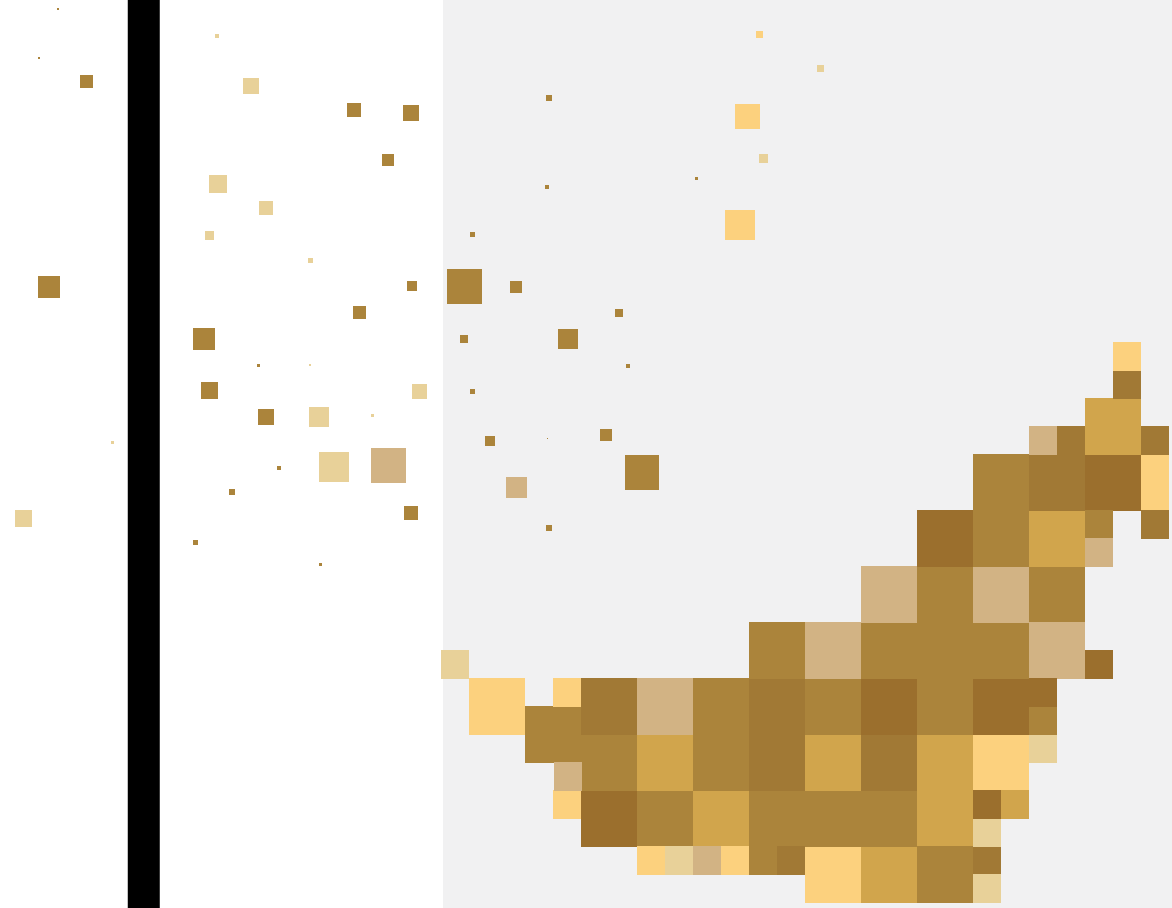
23 February 2021



الهيئة التنفيذية للتقويم | بطاقة مؤشر الأداء التشغيلي | خطة التنفيذ لمشروع

الرقم	اسم المبادرة	الهدف	الوقت	المسؤول	الرقم	اسم المبادرة	الهدف	الوقت	المسؤول
1	تطوير المنهج التعليمي الإلكتروني	تحسين وتطوير المنهج التعليمي الإلكتروني	2021-2022	د. محمد بن محمد	2	تطوير المنهج التعليمي الإلكتروني	تحسين وتطوير المنهج التعليمي الإلكتروني	2021-2022	د. محمد بن محمد
3	تطوير المنهج التعليمي الإلكتروني	تحسين وتطوير المنهج التعليمي الإلكتروني	2021-2022	د. محمد بن محمد	4	تطوير المنهج التعليمي الإلكتروني	تحسين وتطوير المنهج التعليمي الإلكتروني	2021-2022	د. محمد بن محمد
5	تطوير المنهج التعليمي الإلكتروني	تحسين وتطوير المنهج التعليمي الإلكتروني	2021-2022	د. محمد بن محمد	6	تطوير المنهج التعليمي الإلكتروني	تحسين وتطوير المنهج التعليمي الإلكتروني	2021-2022	د. محمد بن محمد





## UAE Innovates - Screenshot Gallery of Selected Events



# The role of intellectual property law in resolving disputes

21 February 2021



## Creativity in legal research

22 February 2021



UAEU United Arab Emirates University

كيف تجعل الإبداع أسلوب حياة ؟  
 طرق التفكير خارج الدائرة  
 العصف الذهني — طريقة تحليلية  
 أسأل أساتذتي في كل التخصصات، ويفضل التخصصات التي لا تميل إليها.  
 كيفية إدارة التعليم التفاعلي؟

↓

مكونات البحث ( البدء بفكرة ) - عناصر البحث  
 حاول إيجاد خلاف الفكرة.

الإمارات إنكسر  
 UAE INNOVATES

# FASCINATING WORLD OF ANALYTICS

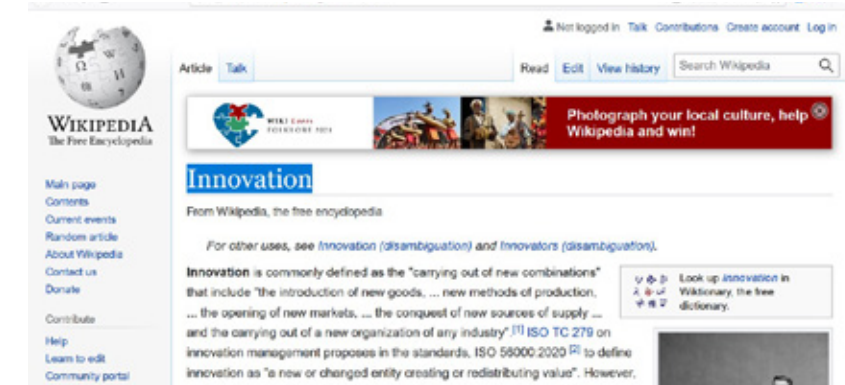
22 February 2021

```

C:\Users\ZED\Desktop\EVERYTHING\2021 02 22 - UAEU Library Hackathon Innovate@UAEU - Fascinating World of Analytics\04k - Sample Writing - Open with Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
[File Name: Sample Writing - Open with Notepad++ - Notepad++]
1 66.249.73.252 - - [03/Jul/2020:22:56:49 -0400] "GET /supply-chain-performance/s/f.php?98694e.js HTTP/1.1" 200 2628 "-"
  "Mozilla/5.0 AppleWebKit/537.36 (KHTML, like Gecko; compatible; Googlebot/2.1;
  +http://www.google.com/bot.html) Chrome/83.0.4103.118 Safari/537.36"
2 186.234.80.102 - - [03/Jul/2020:23:00:33 -0400] "POST /xmlrpc.php HTTP/1.1" 406
  690 "-" "Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:62.0) Gecko/20100101
  Firefox/62.0"
3 208.80.194.32 - - [03/Jul/2020:23:03:39 -0400] "GET /veri-bilimi/s/f.php
  HTTP/1.0" 404 22 "-" "Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.1)"
4 66.249.73.252 - - [03/Jul/2020:23:06:32 -0400] "GET /online-training/module-78-warehouse-management-educational-materials-contribute
  d-by-warehows-org-team/ HTTP/1.1" 200 7319 "-" "Mozilla/5.0 (Linux; Android
  6.0.1; Nexus 5X Build/MMB29P) AppleWebKit/537.36 (KHTML, like Gecko)
  Chrome/80.0.3987.92 Mobile Safari/537.36 (compatible; Googlebot/2.1;
  +http://www.google.com/bot.html)"
5 3.236.58.234 - - [03/Jul/2020:22:50:48 -0400] "GET / HTTP/1.1" 200 5774 "-"
  "python-requests/2.18.1"
6 3.236.58.234 - - [03/Jul/2020:22:50:49 -0400] "GET / HTTP/1.1" 200 5774 "-"
  "python-requests/2.18.1"
7 3.236.58.234 - - [03/Jul/2020:22:50:49 -0400] "GET / HTTP/1.1" 200 5774 "-"
  "python-requests/2.18.1"
  
```

# INNOVATION IN EDUCATION, YOUTH CIRCLE

23 February 2021





# INNOVATION THROUGH MARKETING ANALYTICS

24 February 2021

**Outline**

- Data Science
- Roles in Data Science
- How is Data Analyzed?
- Speaker Bio
- **Lessons**
  1. Pivot Table Analysis
  2. Clustering Similar Customers
  3. Clustering Similar Products
  4. Market Basket Analysis
  5. Time Series Prediction

Available Under: <https://tinyurl.com/uaeinnovation2021>

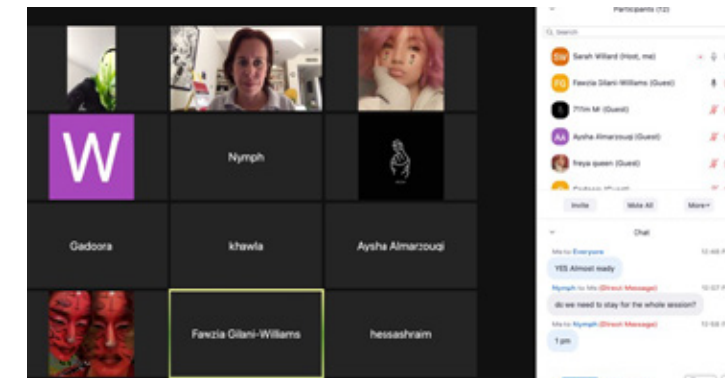


**Profiling Customer Clusters**

Cluster	Apparel	Books	Electronics	Home & Garden	Office Supplies	Personal Care	Software	Sports & Outdoors	Toys & Games	Travel	Video
Cluster 1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Cluster 2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Cluster 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Cluster 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Cluster 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Cluster 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Cluster 7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Cluster 8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Cluster 9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Cluster 10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Cluster 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Cluster 12	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Cluster 13	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Cluster 14	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Cluster 15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Cluster 16	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Cluster 17	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Cluster 18	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Cluster 19	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Cluster 20	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

# Representations of the Arab World in picture books

23 February 2021



# Multilingual World Cinema

23 February 2021

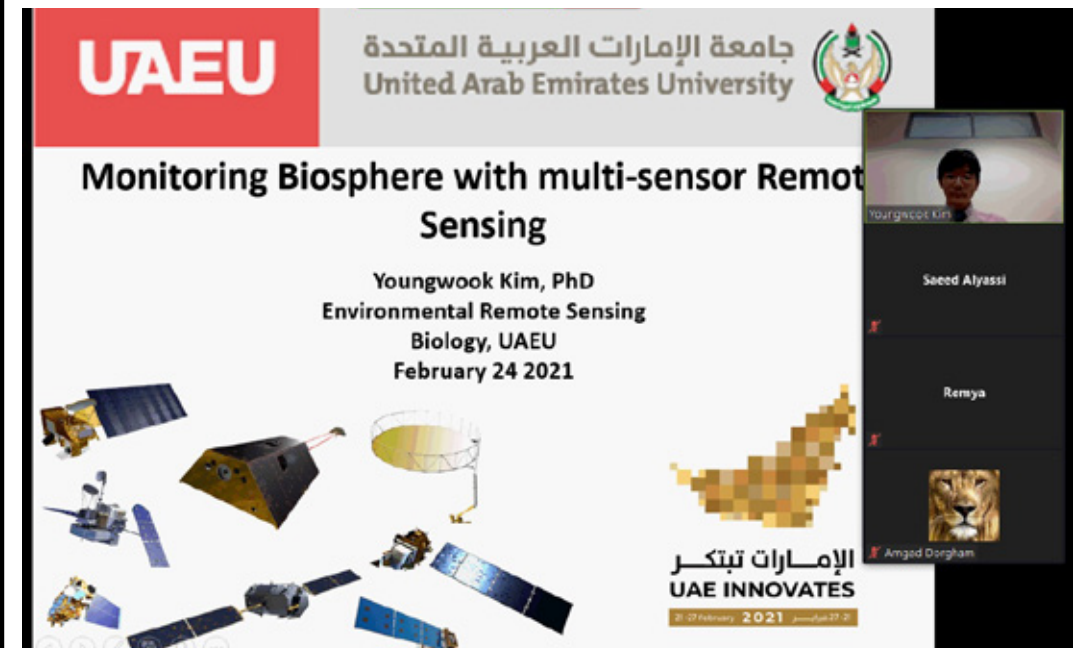
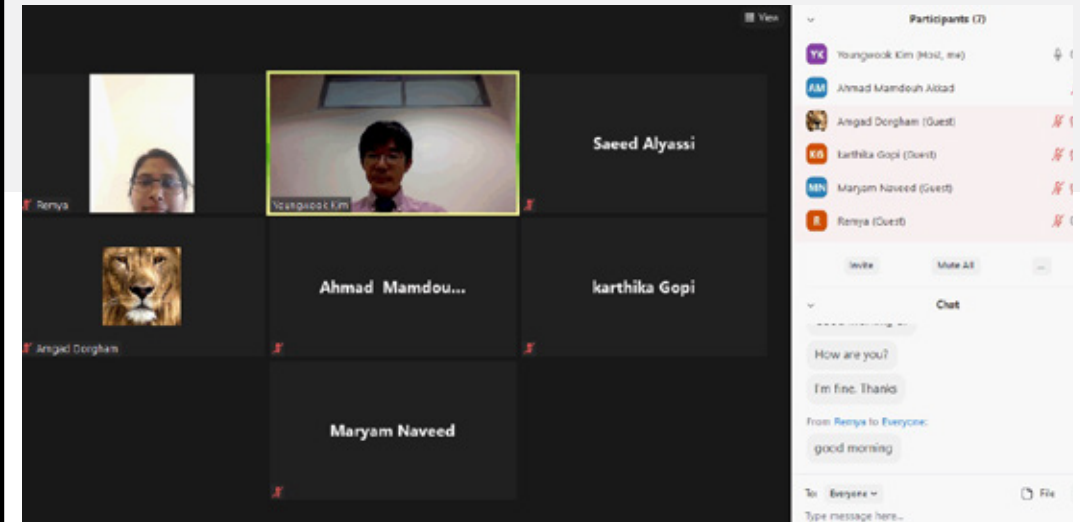
The image shows two screenshots of a Zoom meeting. The top screenshot displays a slide titled "Multilingual World Cinema" with the subtitle "Workshop with Dr. Doris Hambuch and Fil. 245 Students". The bottom screenshot shows a slide titled "Multilingual Examples" with a list of films and their creators:

- Sandra Nettelbeck, *Mr. Morgan's Last Love*
- Lulu Wang, *The Farewell* ( 别告诉她 )
- Humaid Alsuwaidi, *Abdullah* ( عبدالله )
- Ali F. Mostafa, *From A to B*  
<https://www.youtube.com/watch?v=U1-Aja1026Q>

Both screenshots also show a chat window on the right side of the Zoom interface with messages from participants like "morning", "Alanood yes", and "Shaikha Abdulla Taryam Aizzaa... yes".

# Monitoring Biosphere with Remote Sensing

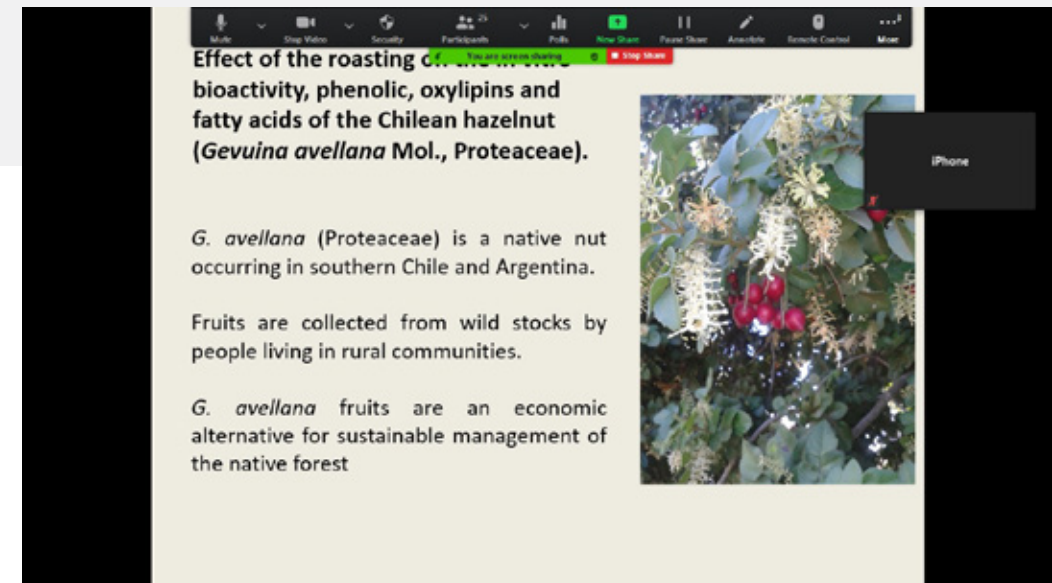
24 February 2021





# Chilean native food plants as a source of health-promoting compounds

23 February 2021



# Key Elements of Space Exploration

25 February 2021

The screenshot shows a Zoom meeting interface. The main window displays a presentation with three slides:

- Slide 1: Key Elements of Space Exploration**
  - Dr. Aquib Moin
  - Department of Physics, College of Science / National Space Science & Technology Centre, UAEU
- Slide 2: The Space Race**
  - SpaceX
  - Blue Origin
  - Virgin Galactic
- Slide 3: Eyes on the Universe: Astronomy**
  - Gravitational Waves!**
  - Einstein's Theory of General Relativity (new interpretation of Gravity).
  - The "spacetime" fabric.
  - The curvature of spacetime: mass-gravity interplay.
  - Ripples in the fabric of spacetime: Gravitational Waves.
  - Detection efforts since 1960s.

On the right side, a list of participants is visible:

- Salah Nasri
- Adel Najjar
- naslim n
- Aquib Moin** (highlighted)
- Rim Fares
- Hemza Azri
- Wadha AlFalasi
- Muhammad Al S.
- Vyshak
- aaldahan
- Higgi Eason
- Amanah Juma

# A cloud collision that produce high-mass stars in a nearby galaxy

25 February 2021

### Outline

- Interstellar medium (ISM)
- Massive stars
- Massive stars feedback
- Formation mechanism
- Some observational results
- Star formation in N66N of SMC





Adel Najjar

Salah Nasri

Sreejith Karthik...

### Filamentary structures in star forming regions



Simulation shows the gas filaments that formed in an infrared dark cloud 800,000 years after the region began gravitational collapse. The extent of the main filament is about 4.5 parsecs in length. In the highest density fragments in the filament (red), molecular cloud cores are developing and will collapse further until they form stars



Herschel SPIRE 250 µm dust continuum image of a portion of the Polaris flare translucent cloud ( $d \sim 150$  pc) taken as part of the HGBS survey (e.g., André et al., 2010; Miville-Deschênes et al., 2010; Ward-Thompson et al., 2010)

Image credit: Richard Klein, Lawrence Livermore National Laboratory; Fuk-Shing Li, University of California, Berkeley; Tim Smeaton, NASA Ames Research Center





Adel Najjar

Salah Nasri

Sreejith Karthik...



# Presentations by PhD Students on their Innovative Projects

24 February 2021

**Optical data processing with discrete solitons**

Amaria Javed  
(Student ID: 201790270)  
College of Science, Department of Physics  
UAE University

**Theoretical Model and Setup**

The DNLS model that describes the evolution of the solitons;

$$i \frac{\partial}{\partial z} \Psi_n + C_{n,n-1} \Psi_{n-1} + C_{n,n+1} \Psi_{n+1} + \gamma |\Psi_n|^2 \Psi_n = 0,$$

For the effective potential to be reflectionless, we use the integrable Ablowitz-Ladik model

$$i \frac{\partial}{\partial z} \Psi_n + (\Psi_{n-1} + \Psi_{n+1})(C + |\Psi_n|^2) = 0,$$

with the exact soliton solution

$$\Psi_n^{AL} = \sqrt{C} \sinh(\mu) \operatorname{sech}[\mu(\pi - n_0)] e^{i\beta z},$$

$$\beta = 2C \cosh(\mu)$$

**Electrochemical performance CV Results**

(a) CoMn2O4 (b) CoMn2O4@MnS

CV results for CoMn2O4 and CoMn2O4@MnS at various scan rates: 2 mV s<sup>-1</sup>, 5 mV s<sup>-1</sup>, 10 mV s<sup>-1</sup>, 20 mV s<sup>-1</sup>, 50 mV s<sup>-1</sup>, and 75 mV s<sup>-1</sup>.

Participants: Amaria Javed, Adel Najar, Mukul Kumar, Sreejith Karthik...

# Emirates Mars Mission

24 February 2021

**Emirates Mars Mission**  
The UAE's (first) journey to Mars

Roland Young  
Department of Physics and NSSTC, UAE University  
EMM Participating Scientist  
UAE Innovation week  
24 February 2021

Adel Najjar  
M  
Mukul Kumar

**Orbit and seasons**

Competing effects determine the climate:  
1. Season  
2. Distance from Sun

Very cold southern winter  
Mid northern summer  
Temporary southern CO<sub>2</sub> icecap  
Middle of clear season

1 year = 687 sols = 687 days  
Current Mars Year is MY36

vs: vernal equinox  
p: perihelion  
e: aphelion

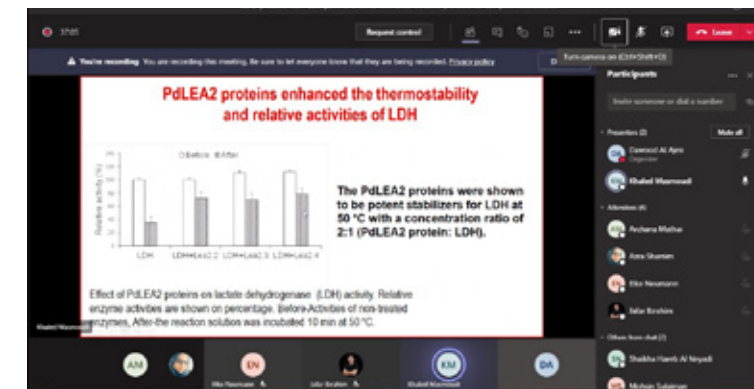
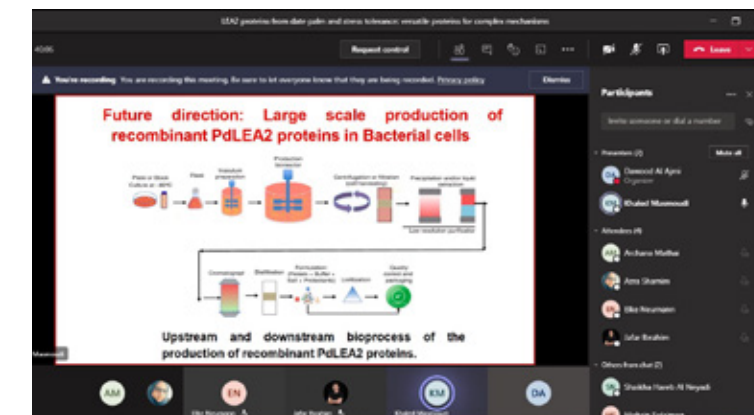
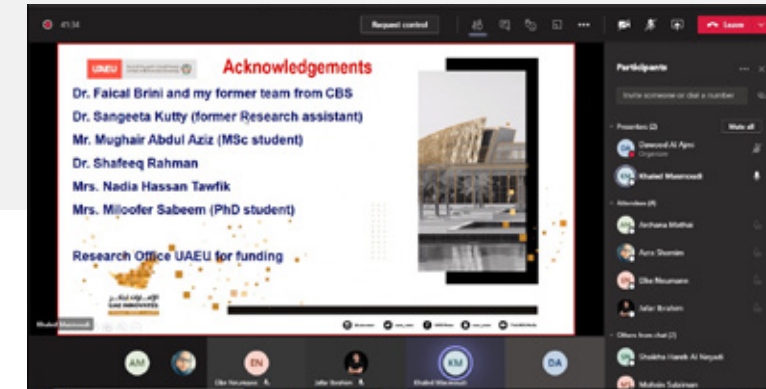
Cold northern winter  
Warm southern summer  
Temporary northern CO<sub>2</sub> cap  
Middle of dusty season

Adel Najjar  
Mohammed Al-...  
M

	Adel Najjar	M	Mukul Kumar
M	Sreejith Karthike...		Ranjit Vijayan
Malak Hamed	rimfares	Shamma □	Wadima Alhamiry

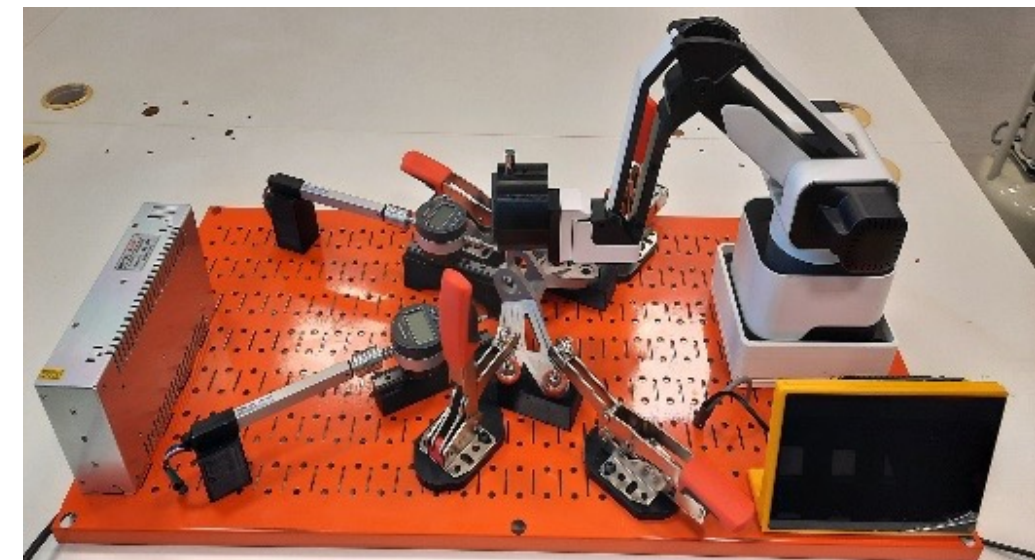
# LEA2 proteins from date palm and stress tolerance: versatile proteins for complex mechanisms

23 February 2021



# Automated High Precision Industrial Quality Control System Using Smart Jigs and Fixtures of Military (IDEX 2021)

22 February 2021



# Innovation and Innovative Ideas

21 February 2021

## What is Innovation?

Innovation means to improve or to replace something, for example, a process, a product, or a service.

Innovation is a process by which a domain, a product, or a service is renewed and brought up to date by applying new processes, introducing new techniques, or establishing successful ideas to create new value.

Source: <https://innolytics-innovation.com/what-is-innovation/>

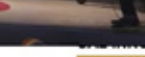
@UAEUnews UAEUnews UAEUnews UAEUnews UAEUnews



## An Example Invention



@UAEUnews UAEUnews UAEUnews UAEUnews UAEUnews





# Remote litigation

23 February 2021

UAEU جامعة الإمارات العربية المتحدة  
United Arab Emirates University

الإمارات تبتكر  
UAE INNOVATES  
23 February 2021

د. عبدالله عبدالرحمن الخطيب  
أستاذ قانون الإجراءات المدنية المشارك

بالتكبير (عن بعد) العربية 9:00 - 8:00 23/2/2021

---

الإمارات تبتكر  
UAE INNOVATES

العدالة بين الماضي والحاضر

د. عبدالله الخطيب - التقاضي عن بعد



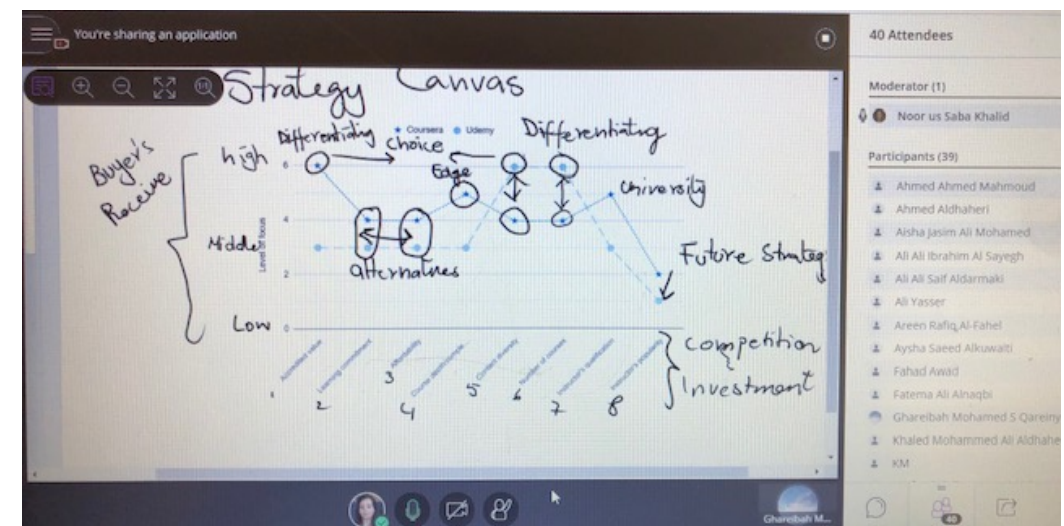
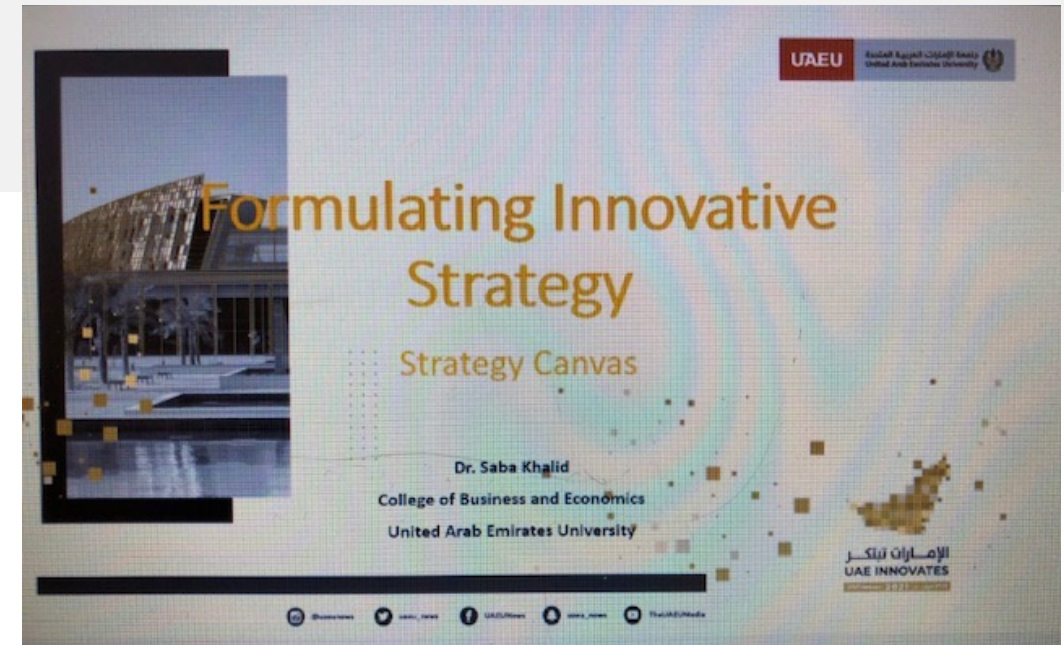
# The Place of High-Tech Food production system in the Future of UAE Food Security

21 February 2021



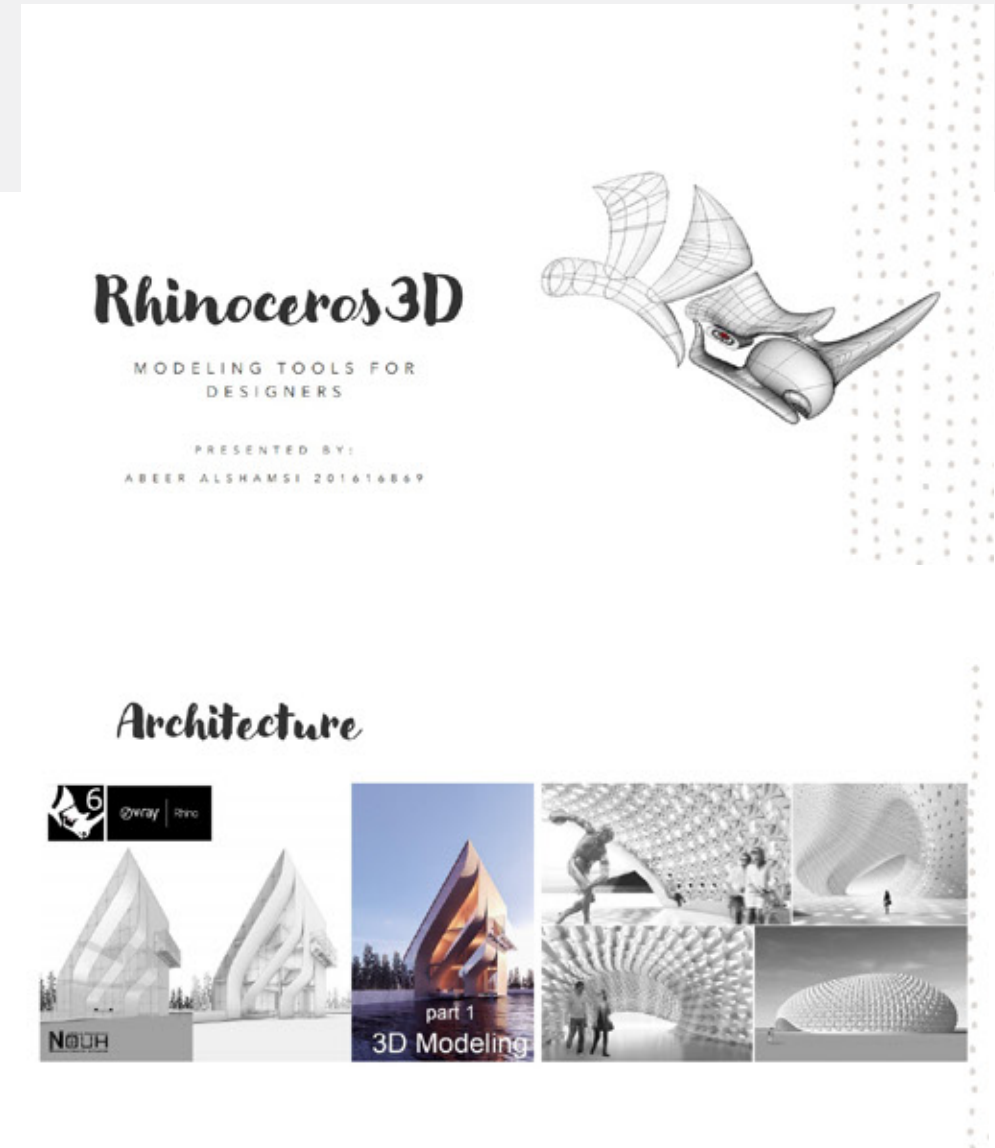
# Media coverage for UAE Innovates 2021

23 February 2021



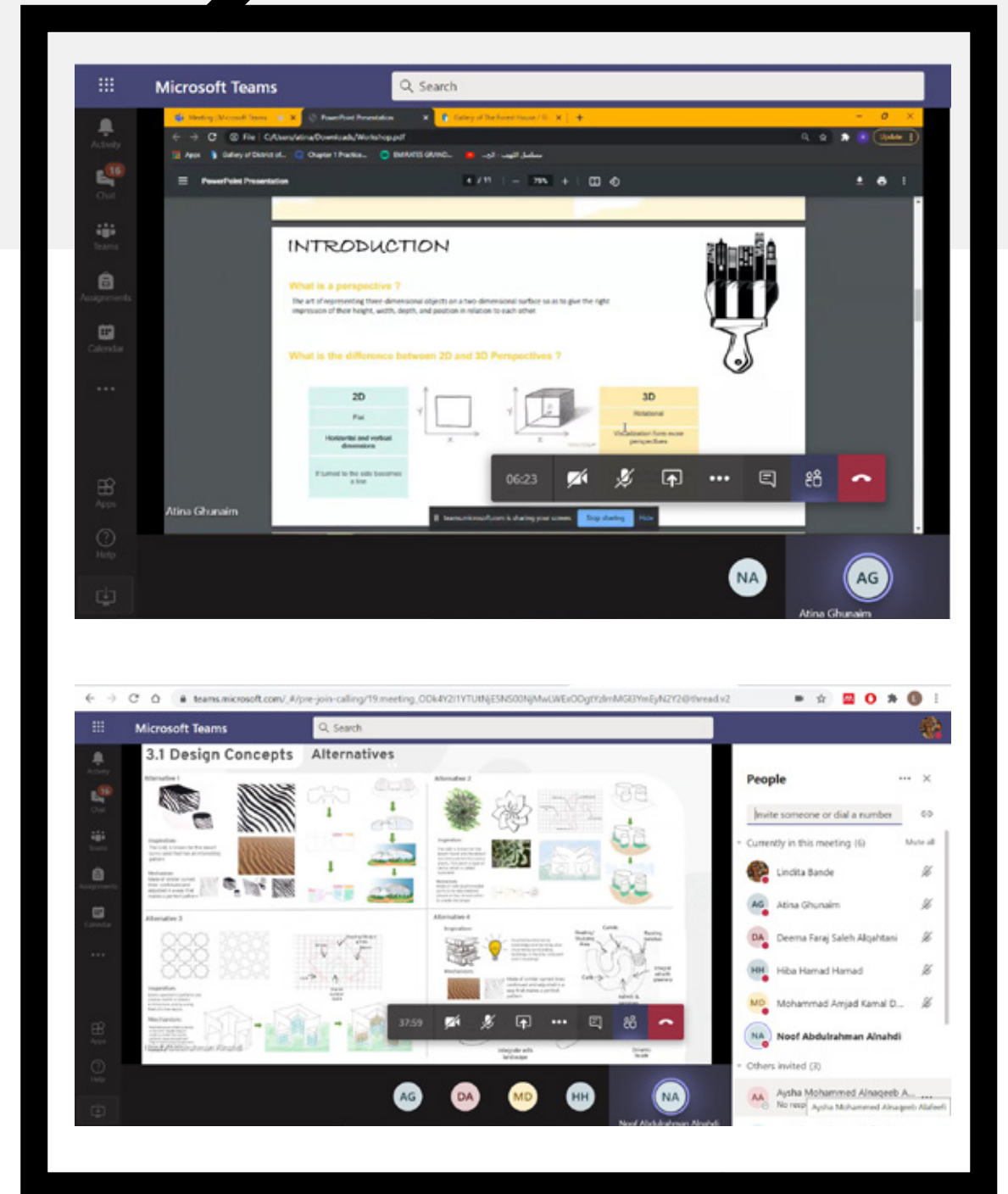
# Introduction to RHINO

24 February 2021



# Sketching in Architecture

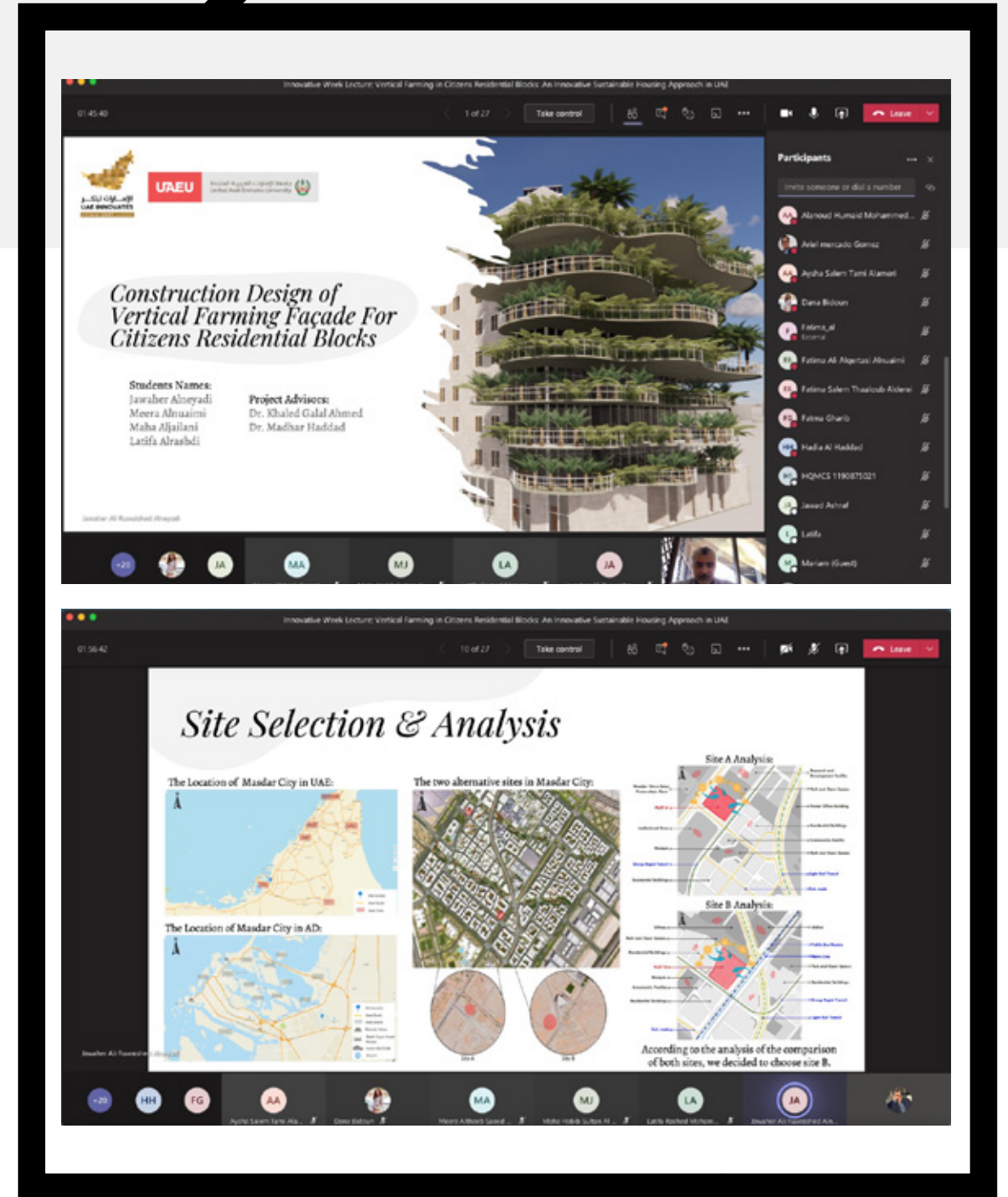
25 February 2021





# Vertical Farming in Citizens Residential Blocks: An Innovative Sustainable Housing Approach in UAE

24 February 2021



# Fun Learning: the road to excellence

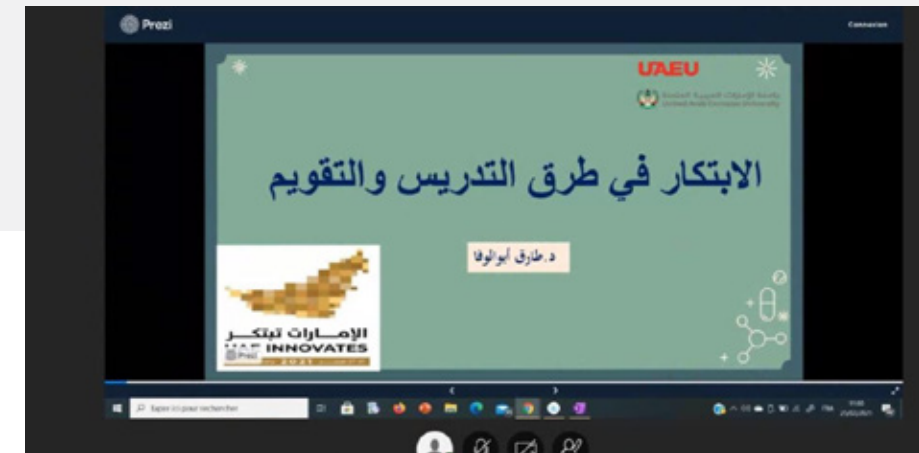
22 February 2021





# Innovation in teaching and assessment of law courses

25 February 2021



# Survey Research Basics with Qualtrics

25 February 2021

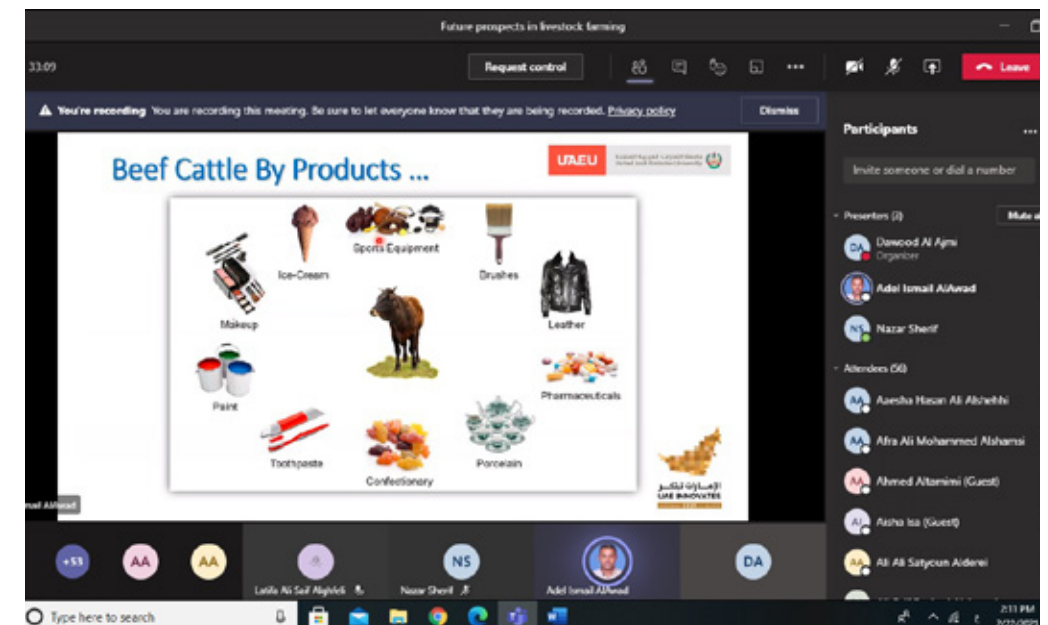
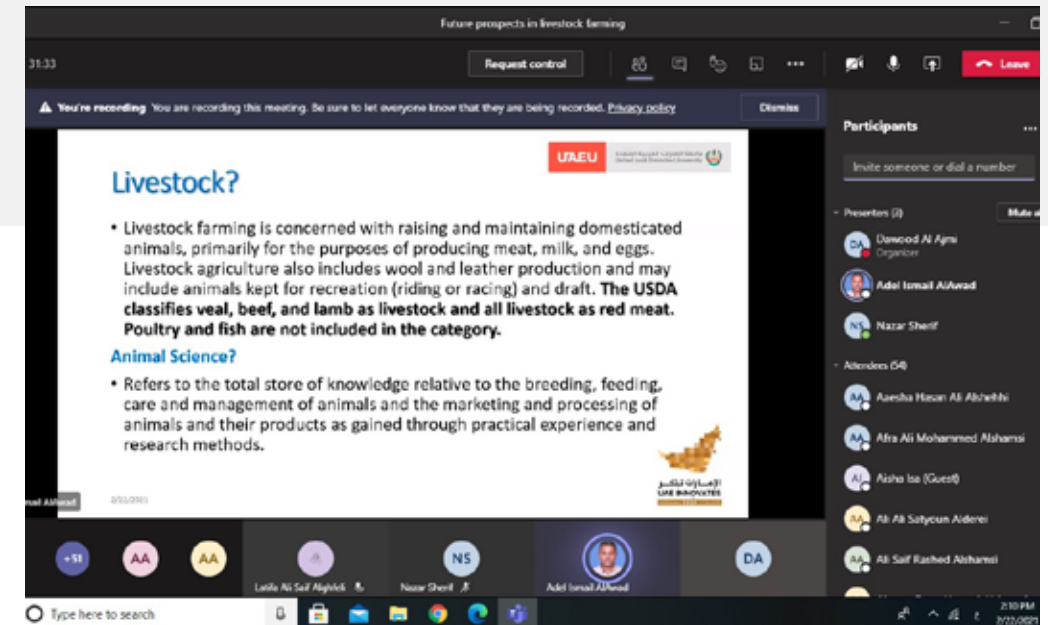
The screenshot shows a Zoom meeting interface. At the top, a slide titled "Goal and meaning of surveys" is displayed. The slide content includes:

- A primary goal of surveys is to classify people according to their opinions and behaviours on the one hand and their characteristics and demographics on the other.
- Scientific approach rests on data, or observations that have been made:
  - Facts and behavior: real events, regular habits, actions.
  - Values refer to people's conceptions of what is good or bad, right or wrong, and the often serve as criteria for choosing goals or behaviours.
  - Opinion is a judgment, an appraisal, or a conclusion that person draws based on some personal experiences, general knowledge, or intuition.

Below the slide, a grid of participants is visible, including names like Maram, reem, Derek B, Mathew Sanja, Bronwyn Wood, Latifa Alkhyali, and others. A chat window on the right shows a message from "Bogdan" stating "Good morning dear all We are about to start our webinar". The slide also features the UAE University logo and "UAE INNOVATES" branding.

# Future prospects in livestock farming

22 February 2021



# Innovation and Technology Applications for Food and Agriculture

24 February 2021

The image shows a Zoom meeting interface. The top window displays a video feed of a man with grey hair and a mustache, wearing a purple shirt. The bottom window shows a presentation slide titled "Fluoroacetate degrading bacteria" from The University of Queensland (UAEU). The slide lists three bullet points:

- Occurs naturally in some animal gut ecosystems including ruminants,
- Appears to cluster (~98% similarity) within the 'Synergistes' division,
- Fluoroacetate is degraded via reductive dehalogenation, which yields energy for these bacteria to grow,

The Zoom interface includes a "Participants" list on the right side of both windows, showing names like Dawood Al Ajaji, Akmal Nade, and others. The bottom window also shows a "Request control" button and a "Leave" button.

# UAE Innovates Award: UAE University and the Department of Health in Abu Dhabi won UAE Innovates Award (Digital Leadership category) for project 'Mathematical Modeling of COVID-19 Spread Dynamics'



25 February 2021

[www.uaeinnovates.gov.ae](http://www.uaeinnovates.gov.ae)



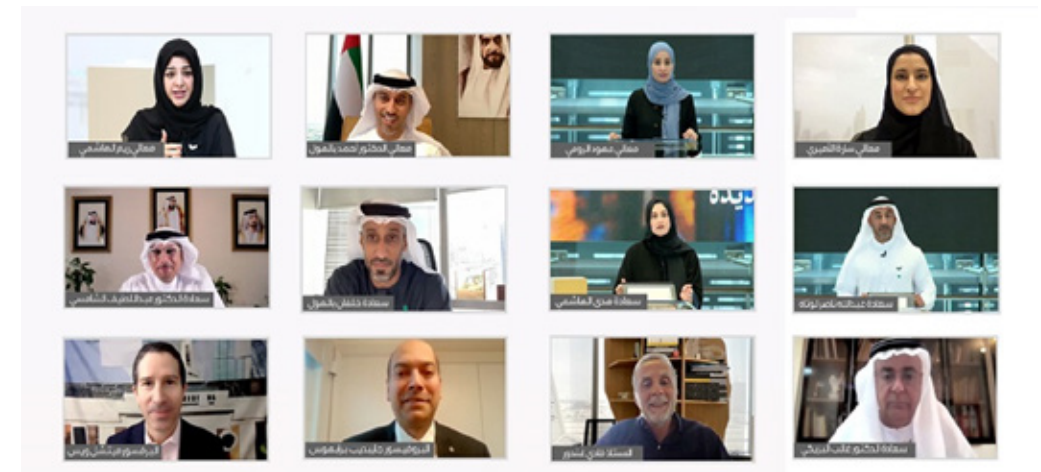


# UAE Innovates Conference



25 February 2021

[www.uaeinnovates.gov.ae](http://www.uaeinnovates.gov.ae)



# UAEU Participation at the Abu Dhabi Virtual Innovation Exhibition

21-28 February 2021



## UAEU Participation at Khalifa Award for Education's Dialogue Session 'United Arab Emirates is an Inspiring Model for Innovation'

22 February 2021

الدكتور خليفة السويدي والدكتورة خولة الكعبي  
خلال مشاركتهم في جلسة حوارية نظمتها  
الأمانة العامة لجائزة خليفة التربوية بعنوان  
"الإمارات نموذج ملهم للابتكار"

Participation of Dr Khalifa Alsuwaidi and Dr  
Khaula Alkaabi at Khalifa Award for Education's  
dialogue session titled 'United Arab Emirates is  
an Inspiring Model for Innovation'



## A Ceremony to Recognize Inventors having Granted Patents in 2020

22 February 2021

No.	Title	Inventor/s	Country	Grant No.	Grant Date
1	Smart Baby Bottle to Prevent Tooth Decay in Infants	Ali Al Marzouqi Amir Almarzooqi	US	US10,524,987 B1	07-Jan-20
2	Bioreactor System And Method Of Operating Same For Cellular Composition Identification And Quantification	Mahmoud Al Ahmad Hina Laghari* Amr Amin	US	US10,564,123 B2	18-Feb-20
3	Safranal-Sorafenib Combination Therapy for Liver Cancer	Ameera AlMansoori Rudhya Raig	US	US10,568,873 B1	25-Feb-20
4	Educational System and Method for Teaching Mechanical Failure	Waleed Khalil Ahmed Muthanna Aziz Ali Al Marzouqi Sdra Siraj Ahmed	US	US10,580,322 B1	03-Mar-20
5	Method for Obtaining Paper From Sand and Products Obtained Therefrom	Sumiyya Fuheem Rabhani* Hamda Al Mesnari* Sara al Ketbi* Nour Shehadeh*	US	US10,611,893B2	07-Apr-20
6	Heat Sink with Condensing Fins and Phase Change Material	Salah Addin Al Omari	US	US 10,641,556 B1	05-May-20
7	Biodegradable Composite Insulation Material	Basim Abu-Jayl Abdel Hamid Mourad Mohamed Saeed Barkhad Abdu Adem*	US	US 10,655,009 B1	19-May-20
8	Pyrimidine-Thiazolidinone Derivatives	Shaikha Al Neyadi Ibrahim M. Abdou* Alaa A. Salem Nahed Amir	US	US 10,689,374 B1	23-Jun-20
9	Pyrimidine Derivatives as Anti-Diabetic Agents	Abdu Adem* Shaikha Al Neyadi Ibrahim M. Abdou* Alaa A. Salem Nahed Amir	US	US 10,702,525 B1	07-Jul-20
10	Apparatus and Method for Physiological Mechanical and Electrical Activity Monitoring	Mahmoud Al Ahmad Nabil Bastaki Bisri Fahad Mon	US	US10,722,124 B2	28-Jul-20
11	Nitride Based Sensor	Adel Najjar	US	US10,761,049	01-Sep-20
12	Sustainable and Integrated System for Cooling Vehicle tires Externally	Mariam Alhamadi* Waleed Khalil Ahmed Ali Al Marzouqi Nour Shehadeh*	US	US10,759,237 B2	01-Sep-20
13	Anticorrosion Material Produced from Date Palm tree Waste	Ayha Al Ahbabi* Amna Almushtarrah* Amna Sultan Al Ab* Sara Hareb Al-Ketbi*	US	US10,767,267	08-Sep-20
14	Frequency Agile Antenna	Mahmoud Al Ahmad Ali' Abu Sanad*	US	US10,790,590 B1	29-Sep-20
15	Wireless Multiplexing Using Tunable Antenna	Mahmoud Al Ahmad Mohammed Adib Ali Obaid*	US	US10,805,030 B1	13-Oct-20
16	Functionalized Optical Lens and Method of Manufacturing	Falah Awad Ibrahim Ghafar Zadeh*	US	US10,809,513	20-Oct-20
17	System And Method For Detecting Abnormalities In Cells	Mahmoud Al Ahmad Zinab Ahmed Al Haddad* Maltha al Kaabi*	Europe	EP 3415906 B1	28-Oct-20
18	Electrical Power Generating Carpet	Razan Yousef Kharouf* Hamda Al Dere* Walid Shakhatreh Ihab M. Obaidat	US	US10,855,209	01-Dec-20
19	Asymmetric Supercapacitor with Hieratical Electrodes	Hee-Je Kim* Chandu V.V. Muralee Gopi* Sambasivam Sanganaju	US	US10,854,395	01-Dec-20
20	Heat Sink With Vibration Enhanced Heat Transfer for non-liquid heat sources	Salah Addin Al Omari Emad Elnajar Rashad Ramzan*	US	US10,866,038	15-Dec-20
21	Plant Water Sensor	Omar Farooq Siddiqui* Muhammad Amin* Nabil Bastaki	US	US 10,805,746 B2	31-Mar-20

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# الإمارات تبتكر UAE INNOVATES

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