



Dear colleagues,

On Saturday 29 October 2022, Al-Kindi Society of Engineers will hold an award ceremony to honour distinguished professor Dhiya Al-Jumeily OBE, who will give a talk to our members and guests entitled “Artificial Intelligence for accomplishing the UN Sustainable Development Goals”.

Professor Dhiya Al-Jumeily was promoted and appointed by the monarchy to the Most Excellent Order of the British Empire, “OBE- Officers of the Civil Division of the said Most Excellent Order for the “Services to Scientific Research”.

The event will be a hybrid event with opportunity to attend physical and virtually via Zoom. The event will be held from 14:00 till 18:00 at the following venue:

Address:

Arab-British Chamber of Commerce  
43 Upper Grosvenor Street  
Mayfair, London, W1K 2NJ

A light late lunch / early dinner will be served.

The event is held in collaboration with American Society of Mechanical Engineers-UK, The Iraqi Engineers Union and other partner organisations.

Admission:

- Free online event admission via Zoom.
- Free admission to Al-Kindi Members who paid 2022 subscription.
- £20 admission for Al-Kindi members with lapsed subscription.
- £25 general admissions to the physical event.

There is a limited ticket availability and priority will be to Al-Kindi members. Al-Kindi member are advised to check their emails for special invitations with instructions for RSVP.

For information about ticket availability and reservations, please email [info@alkindsociety.org](mailto:info@alkindsociety.org) or contact Dr Ali Albadri via +44 785 499 4900 no later than 22 October 2022.

Best wishes from  
The Management Committee

Al-Kindi Society of Engineers

الزميلات والزملاء الأفاضل،

تقيم جمعية الكندي للمهندسين يوم السبت 29 أكتوبر 2022 حفل لتكريم الأستاذ المتميز ضياء الجميلي OBE، الذي سيلقي محاضرة بعنوان "تسخير الذكاء الاصطناعي لتحقيق أهداف التنمية المستدامة".

علما إن في ديسمبر ٢٠٢٠ تمت ترقية البروفيسور ضياء الجميلي وتعيينه من قبل النظام الملكي إلى أرقى وسام الملكي البريطاني، "OBE- القسم المدني من الترتيب الأكثر امتيازاً لـ" خدمات البحث العلمي".

سيقام الحدث من الساعة 14:00 حتى الساعة 18:00 في مقر الغرفة التجارية العربية البريطانية في لندن، المملكة المتحدة:

العنوان:

**Arab-British Chamber of Commerce**  
**43 Upper Grosvenor Street**  
**Mayfair, London, W1K 2NJ**

كما سيتم تقديم الشاي والقهوة ووجبة خفيفة

يقام هذا الحدث بالتعاون مع الجمعية الأمريكية للمهندسين الميكانيكيين - المملكة المتحدة، ونقابة المهندسين العراقيين ومنظمات مساهمة أخرى.

التسجيل

• دخول مجاني لأعضاء الكندي الذين دفعوا اشتراك سنة 2022.

• 20 جنيهًا إسترلينيًا للأعضاء الذين لم يدفعوا اشتراك سنة 2022.

• 25 جنيهًا إسترلينيًا لأعضاء منظمة شريكة.

• دخول مجاني للحدث عبر الإنترنت عبر Zoom.

هناك توافر محدود لتذاكر الدخول وستكون الأولوية لأعضاء جمعية الكندي للمهندسين.

يرجى من أعضاء جمعية الكندي للمهندسين التحقق من البريد الإلكتروني لتأكيد استلام الدعوة المخصصة مع تعليمات **.RSVP**

للحصول على معلومات حول توفر التذاكر والحجز، يرجى التواصل مع الدكتور علي البديري (+44 785 499 4900) أو عن طريق إرسال بريد إلكتروني إلى [info@alkindisociety.org](mailto:info@alkindisociety.org) في موعد أقصاه 22 أكتوبر 2022.

أطيب التمنيات من

الجنة الإدارية

جمعية الكندي للمهندسين



UNITED KINGDOM

## Event Programme

## برنامج الفعالية

|               |                                                                                                                                                   |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| 14:00 – 14:30 | Registration<br>Networking with Tea & Coffee                                                                                                      |
| 14:30 – 14:45 | Starting of Zoom session<br><br>Welcoming Speeches and inauguration                                                                               |
| 14:45 – 15:00 | Awarding Presentation                                                                                                                             |
| 15:00 – 15:50 | Distinguished Lecture<br>“Artificial Intelligence for accomplishing the<br>UN Sustainable Development Goals”<br>by Professor Dhiya Al-Jumeily OBE |
| 15:50 – 16:30 | Open Discussion and Q&A.<br><br>End of Zoom session                                                                                               |
| 16:30 – 17:30 | Light dinner with Tea & Coffee                                                                                                                    |
| 17:45 – 18:00 | Closing remarks.<br>End of Event.                                                                                                                 |



**Prof. Dhiya Al-Jumeily OBE**

Dhiya Al-Jumeily OBE is a professor of Artificial Intelligence and the president of eSystems Engineering Society. He has extensive research interests covering a wide variety of interdisciplinary perspectives concerning the theory and practice of Applied Artificial Intelligence in medicine, human biology, environment, intelligent community and health care. He has published well over 300 peer reviewed scientific international publications, 17 books and 17 book chapters, in multidisciplinary research areas including: Machine Learning, Neural Networks, Signal Prediction, Telecommunication Fraud Detection, AI-based clinical decision-making, medical knowledge engineering, Human-Machine Interaction, intelligent medical information systems, sensors and robotics, wearable and intelligent devices and instruments. But his current research passion is decision support systems for self-management of health and medicine.

Dhiya has successfully supervised over 25 PhD students' studies and has been an external examiner to various UK and overseas Universities for undergraduate, postgraduate and research degrees. He has been actively involved as a member of editorial board and review committee for a number peer reviewed international journals, and is on program committee or as a general chair for a number of international conferences.

Dhiya is also a successful entrepreneur. He is the head of enterprise for the faculty of Engineering and Technology. He has been awarded various commercial and research grants, nationally and internationally, over £7.5M from Overseas Research and Educational Partners, UK through British Council and directly from industry with portfolio of various Knowledge Transfer Programs between academia and industry.

Dhiya is the founder and general series chair of the IEEE International Conference on Developments in eSystems Engineering DeSE ([dese.org.uk](http://dese.org.uk)) since 2007. He has a large number of international contacts and leads or participates in several international committees in his research fields. Dhiya has one patent and coordinated over 10 projects at national and international level. Prof. Al-Jumeily is a Senior Member of the IEEE and a Chartered IT Professional. He is also a fellow of the UK Higher Education Academy.

On the 31 December 2020, professor Dhiya Al-Jumeily was promoted and appointed by THE QUEEN to the Most Excellent Order of the British Empire, "OBE- Ordinary Officers of the Civil Division of the said Most Excellent Order for the "Services to Scientific Research"-  
<https://www.thegazette.co.uk/notice/3703557>

## Artificial Intelligence for accomplishing the UN Sustainable Development Goals

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**Prof. Dhiya Al-Jumeily OBE**

Chair in Artificial Intelligence/Senior Member of IEEE

PhD, MPhil, MSc, BSc, PGCHE, CITP, FHEA  
President of eSystems Engineering Society

Faculty of Engineering and Technology

**Liverpool John Moores University, England, UK**

In response to the UN sustainable development goals, the emergence of the field of called Deep Learning (part of Artificial Intelligence) has resulted, paralleled by the rise in prominence of the Intelligent Systems paradigm. Additionally, the term 'Big Data' has been introduced in recognition of the extended use and scale of data, which is now featured prominently as a critical component in many solutions. The Artificial Intelligence and more specifically Data Science discipline, along with related concepts, aims to address many problems including: the problem of information processing, providing a capacity for problem analysis that may exceed immediate human cognitive capabilities, while offloading routine tasks to reduce human cognitive labour and its associated limitations. Data can be viewed as the information carrying substrate within this paradigm, a medium upon which the problem domain information is encoded.

The application of Artificial Intelligence techniques and big data solutions, enabled by data science approaches and intelligent system technologies, has already delivered transformative impacts in different aspects around us, including sustainable development. In this talk we explore the possibility of using Artificial Intelligence, deep learning and their applications, to accelerate and achieve the 17<sup>th</sup> Sustainable Development goals of the UN, covering the potential of such approaches, highlighting challenges with applying AI in real-applications, and exploring possible future directions. The talk will be support by 'real-world' examples on which the discussion will be based. This will be concluded by proposing a novel case study to tackling water shortage and its implications based on AI combined with sensing technologies.