
ARTIFICIAL INTELLIGENCE AND SUSTAINABLE CITIES
AI-Scities 2025 Conference
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1st International Conference on Artificial Intelligence and Sustainable Cities
(AI-Scities 2025)
29th October 2025

ARTIFICIAL INTELLIGENCE AND SUSTAINABLE CITIES
AI-Scities 2025 Conference

1ST INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE AND SUSTAINABLE CITIES (AI-SCITIES 2025)








THEME

"Innovating AI For Sustainable Future"

Bognor Regis

United Kingdom

Wednesday 29th October 2025








Technical Programme

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Welcome Speech

On behalf of the organising committee of the **1st International Conference on Artificial Intelligence and Sustainable Cities (AI-Scities) 2025**, we warmly welcome all distinguished guests, esteemed colleagues, friends from near and far, and every visionary joining us in person and online at the AI-Scities 2025 conference, held at the **University of Chichester, Bognor Regis campus, United Kingdom**.

Today marks the inauguration of the 1st International Conference on Artificial Intelligence and Sustainable Cities — a gathering of experts, institutions, industry, and community dedicated to shaping the future of our environments and our planet.

We stand at a confluence of two powerful technological and ethical forces — the rise of AI, and the growing demand for sustainable, inclusive and resilient cities. Cities where people thrive, ecosystems flourish, and technology serves humanity rather than replacing it. It is here, in this dynamic space, that we will explore not only what is possible but also what is responsible, what is equitable, and what is sustainable.

We thank our hosts at the University of Chichester, whose commitment to collaboration, research excellence and social impact provides the perfect foundation for our discussions. Their work reminds us that the hallmarks of a future-ready city are not just smart sensors and autonomous systems — but education, community, and a vision for shared prosperity.

To our keynote speakers and panel experts: your insights and leadership already break new ground in bridging AI and urban sustainability. To our presenters and participants: your contributions — in academic papers, industrial case studies, cross-sector partnerships — will chart the path from concept to reality.

In this AI-Scities 2025 conference, we will be critiquing the bold questions: How can AI enable cities to optimise energy, transport, health, environment, education and all possible social infrastructure without compromising privacy, widening inequality or infringing on other ethical issues? In what ways can data-driven systems empower local communities, not just large organisations? How do we design for resilience so our cities can adapt and evolve in response to climate change, demographic shifts, and technological disruption?

But we will also share hope — hope that through collective action, innovation, and understanding, we can build cities that are more liveable, more inclusive, and more sustainable than ever before.

Let us dedicate ourselves to connection: across disciplines, regions, and sectors. Let us dedicate ourselves to curiosity — to asking tough questions, listening to unexpected voices, and embracing solutions that may come from unlikely sources. And let us dedicate ourselves to action — not merely discussing the future of cities, but actively shaping it.

Sincerely,

AI-Scities 2025 Conference Organising Committees

Technical Editorial Preface

The 1st International Conference on Artificial Intelligence and Sustainable Cities (AI-Scities 2025) brings together participants from over twelve countries—including **Norway, Malawi, Rwanda, Canada, Hong Kong, South Africa, China, the United States, India, the United Kingdom, Serbia, Germany, South Korea, Bosnia and Herzegovina, Bangladesh, and Nigeria**—to deliberate on the transformative potential of Artificial Intelligence (AI) in building sustainable, inclusive, and resilient cities.

This year's submissions reflect remarkable diversity in research focus and methodological depth. Out of the 60 received submissions, contributions span a wide range of themes, including AI for Smart and Sustainable Cities, AI and the Smart Economy, AI for Urban Governance, Machine Learning for Sustainability, AI in Energy Systems, Smart Healthcare, and Ethical Policy Frameworks for AI-driven Societies.
All papers underwent rigorous double-blind peer review by a distinguished panel of reviewers from leading universities and institutions worldwide. Their commitment to scholarly excellence has ensured that the proceedings of AI-Scities 2025 uphold the highest standards of academic integrity and innovation. Approximately 68% of submissions were accepted, reflecting the conference's dedication to both inclusivity and scholarly quality.

On behalf of the Technical Programme Committee, I extend heartfelt gratitude to all authors, reviewers, partners, and delegates who have contributed to making this inaugural edition a success. Your collective insight, creativity, and dedication form the foundation of this conference and inspire the next generation of technological breakthroughs.
May AI-Scities 2025 ignite collaborations that transcend boundaries, catalyse transformative discoveries, and strengthen our global resolve to create sustainable, intelligent cities for all.

Professor Kennedy Chinedu Okafor
Federal University of Allied-Health Sciences, Enugu, Nigeria/IEEE Skillup Hub Region 8, UK.

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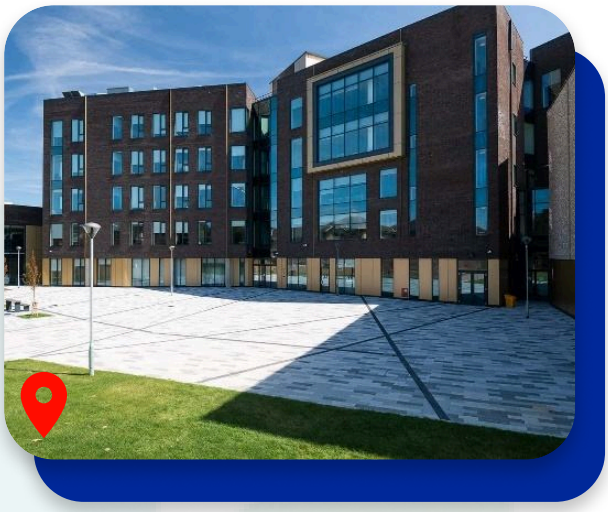
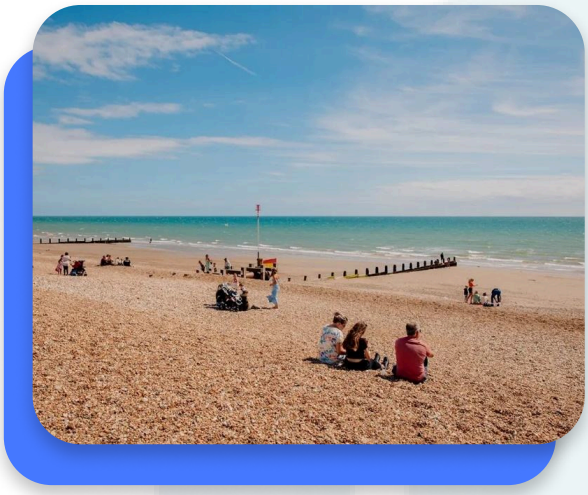
- Oluwaseyi Gbadamosi.
- Arinola Bello.

AI-Scities 2025 Conference Venue

The AI-Scities 2025 Conference is proudly hosted at the **University of Chichester's Bognor Regis Campus**, one of the United Kingdom's most beautiful coastal academic settings. Nestled along the south coast of England, the Bognor Regis Campus provides an inspiring blend of modern innovation and serene natural beauty — a fitting backdrop for a global dialogue on Artificial Intelligence for Sustainable Cities.The campus itself exemplifies the University's commitment to creativity, sustainability, and community. Its award-winning buildings — including the Tech Park, a state-of-the-art facility dedicated to engineering, digital technologies, and design — offer the perfect environment for researchers, industry leaders, and students to collaborate. With its spacious atriums, contemporary architecture, and smart learning spaces, the venue reflects the very principles that AI-Scities 2025 stands for: intelligence, integration, and innovation for a sustainable future.





The University of Chichester is renowned for its commitment to research excellence, community engagement, and innovation in teaching and learning. By hosting AI-Scities 2025, it reinforces its growing role as a hub for forward-thinking research in artificial intelligence, sustainability, and digital transformation. As participants gather here in Bognor Regis, they will experience not only a cutting-edge academic venue but also the warmth of a community that celebrates knowledge, creativity, and a shared vision for a smarter and more sustainable future.

Beyond its impressive architecture, the campus enjoys close proximity to the English Channel, providing a peaceful and inspiring coastal atmosphere for reflection, discussion, and collaboration. Delegates will also find excellent facilities, including modern lecture theatres, collaborative learning zones, digital labs, and accessible social spaces designed to foster academic and professional networking. Together, the University of Chichester and the Bognor Regis coastline create a setting that embodies the spirit of AI-Scities 2025 — blending human creativity, technological progress, and environmental harmony. It is a place where ideas can flourish as freely as the sea breeze that sweeps across the coast — welcoming delegates to think boldly, collaborate deeply, and shape the sustainable cities of tomorrow. Just a short walk from the campus lies the Bognor Regis seafront, a quintessentially British coastal treasure. Known for its wide beaches, golden sands, and calming sea views, Bognor Regis is one of the sunniest places in the UK. The gentle rhythm of the waves and the open horizon provide a peaceful counterbalance to the intellectual energy of the conference. Delegates are encouraged to enjoy morning walks along the promenade, visit the historic pier, or experience the charming local cafés and seaside gardens that make Bognor Regis such a unique destination.

Rules for Participation

All participants in the AI-Scities 2025 conference are welcome to join throughout the event, whether online or in person. The main venue is the Tech Park Building at the Bognor Regis Campus of the University of Chichester, United Kingdom. Virtual participants are also warmly invited. Attendees on-site should seek out AI-Scities 2025 assistants, who will direct them to the Tech Park. As indicated in the timetable, networking activities commence at 8:00 am on the 2nd floor of the Tech Park building. Punctuality is encouraged for all delegates. Since this is a one-day event, several breaks and networking sessions are included in the programme to promote engagement. Please make the most of these breaks. Refreshments will be available to keep participants energised until lunch or dinner is served. While in the building, please follow all the safety rules introduced to you this morning.

Onsite Presentation

- All authors must arrive at the presentation venue and room at least 15 minutes before their presentation
- Authors should hand in their presentation files to the Session Chair at least 15 minutes before the session starts.
- All the oral presentations will be presented in the English language.
- The duration of each paper presentation is 15 minutes (10 minutes presentation and 5 Q&A).
- Session chairs may interrupt any participant not keeping to the time and duration of the presentation.

Online Presentation

- All authors must arrive and connect to their online presentation room at least 15 minutes before their presentation
- Participants are encouraged to record a maximum of a 10-minute presentation and upload it to the link provided on the conference website for backup in the likely event of network failure. The recorded video will be played only if the participant's network fails; however, the authors should be available to answer questions regarding their presentation..
- Only recorded presentations no longer than 10 minutes will be permitted by the Session chair.
- All the oral presentations will be presented in the English language
- The duration of each paper presentation is 15 minutes (10 minutes presentation and 5 Q&A).
- Session chairs may interrupt any presentation not keeping to the time and duration of the presentation

Important Notes

- Remember to be punctual. Actively engage in your track session and all other sessions of the conference.
- Delegates and exhibitors are allowed to enter any room for their presentation.
- Do not pass on your visitor's badge to another person.
- Only registered participants will be allowed into the conference venue. In the event that someone accompanies a registered participant, the participant must inform our staff, who will accredit the participant before joining the conference.
- Always keep all your personal belongings with you. The AI-Scities 2025 conference organiser will be liable for the loss of any personal property before, during or after the conference.

1st International Conference on Artificial Intelligence and Sustainable Cities (AI-Scities 2025)

Bognor Regis, United Kingdom

Wednesday 29th October 2025

Technical Programme

Summary of Activity Timetable

Location	Activity	Room	Time	Remark
2nd Floor	Keynote Speech 1 & 2/Exhibition 1/Track 1 Technical Presentation	TP2.17	08:00–11:25	Tech Park
2nd Floor	Keynote Speech 3/Track 1 Technical Presentation	TP2.17	11:25-14:35	Tech Park
2nd Floor	Keynote Speech 4/Track 2 Technical Presentation	TP2.18	11:25-14:20	Tech Park
3rd Floor	Keynote Speech 5/Track 3 Technical Presentation	TP3.32	11:25-14:20	Tech Park
1st Floor	Keynote Speech 6/Track 4 Technical Presentation	TP1.18	11:25-14:20	Tech Park
4th Floor	Keynote Speech 7/ Track 5 Technical Presentation	TP4.16	11:25-14:20	Tech Park
CDIO	Exhibition 2	CDIO	14:35–14:45	Tech Park
2nd Floor	**Networking/Lunch/Dinner**	**TP2.17**	**14:45-16:45**	Tech Park

Notes: _____

Parallel session

Rooms TP2.17, TP2.18, TP3.32, TP1.18, TP4.16

Location	Activity	Session Chair	Time	Duration
TP2.17	Technical Session • Track 1	Dr Augustine Ikpehai	11:25-14:35	3hrs 10 min
TP2.18	Technical Session • Track 2	Dr Rahul Kumar	11:25-14:20	2hrs 55 min
TP3.32	Technical Session • Track 3	Dr Olaide Oyelade	11:25-14:20	2hrs 55 min
TP1.18	Technical Session • Track 4	Dr Rameez Asif	11:25-14:20	2hrs 55 min
TP4.16	Technical Session • Track 5	Dr Taiwo Adedeji	11:25-14:20	2hrs 55 min
TP2.17	**Networking/Lunch/Dinner**	**Catering Services**	**14:45-16:45**	**2hrs**

Notes:

Dr. Kelvin Anoh

General Chair

Head, Centre for Future Technologies, University of Chichester, United Kingdom

AI-Scities 2025 Conference Chair

08:55 - 09:00

TP2.17

Keynote Speech Title

Introduction to 1st International Conference on Artificial Intelligence and Sustainable Cities 2025

Kelvin is the Head of the Centre for Future Technologies (CFT) research centre, Head of the Smart Energy Infrastructure Lab, a Member of the Research Ethics Committee, and a Senior Lecturer in Electrical and Electronic Engineering (EEE) and Computing at the University of Chichester, UK. He leads teaching and research in Smart Infrastructure and has published over 100 peer-reviewed articles. Kelvin is the IEEE Student Branch Counsellor in Chichester, UK. He received a PhD in EEE from the University of Bradford, UK. He actively participates in Engineering Society Leadership, Mentoring, and Volunteering. With over 17 years of experience across Oil & Gas, Banking & Finance, ICT, Academia, and Consultancy, Kelvin also serves on the Editorial Boards of several reputable journals. He has worked on small and large-scale projects totalling over £27 million. Kelvin contributed to developing the compartmental model for the £382 billion Woodland Ecosystem Services valuation, published by the Office for National Statistics UK in 2023. He has helped secure funding for projects in areas such as Smart Infrastructure, IoT, Telecommunications, Smart Energy Cities, and Artificial Intelligence. Kelvin established the IEEE Chichester Student Branch, secured a donation of 40 FPGA boards from Intel Corporation/Terasic for Smart Cities research and teaching. He also facilitated 19 Cisco Scholarship places for the Nigerian Society of Engineers, Manchester (UK) Branch while serving as the Technical Secretary. Kelvin received a best paper award at the ICFNDS conference held at the University of Cambridge in 2017. He worked on the EPSRC project on Smart Energy in Buildings, which received the Manchester Metropolitan University Outstanding Knowledge Exchange Award in 2016, as well as the Knowledge Exchange Project Award the same year. Dr Anoh is a Senior Member of the Institute of Electrical and Electronics Engineers (IEEE), the Publicity Secretary of the Nigerian Society of Engineers in Manchester (UK) branch, and a Fellow of the Higher Education Academy. His research interest lies in Smart Infrastructure.

Prof. Bamidele Adebisi MBE

Keynote Speaker 1

Professor in Intelligent Infrastructure Systems and Director of Smart Communities and Innovations at the Department of Engineering, Manchester Metropolitan University (UK)

09:00
-
09:40

TP2.17

Keynote Speech Title

Smart Infrastructure for Sustainable Cities

Bamidele is a Professor in Intelligent Infrastructure Systems and serves as the Director of Smart Communities and Innovations at the Department of Engineering, Manchester Metropolitan University, UK. He also holds the position of Director and Board Member at the African Hydrogen Partnership Trade Association (AHP), Mauritius. He is a key member of the leadership team at the Manchester Fuel Cell Innovation Centre, UK. He has an extensive publication record and has delivered numerous talks and participated in panel discussions on topics including clean energy, smart cities and communities, Industry 4.0, the Internet of Things, artificial intelligence, and cyber-physical systems. He has contributed to several multi-partner, multi-country, multi-million-pound projects funded by government bodies, international agencies, and corporate entities. He was a senior partner in the establishment of one of the largest knowledge-driven low-carbon districts in Europe, incorporating sustainable urban mobility and integrated infrastructures and processes through Triangulum, a €29M European Union Horizon 2020-funded, award-winning five-year smart cities project. The University campus was used as a testbed (Living lab) to prove that low-carbon, cost-efficient, sustainable energy solutions are possible. He was also the Lead Researcher of NIceEnergi - Nigeria Intelligent Clean Energy Marketplace, a renewable energy project funded by the Department for International Development (DFID). It piloted a green energy market platform in Abuja, Nigeria. Bamidele has a proven track record in securing industry-related grants through Knowledge Transfer Partnerships (KTP), with two projects receiving the UK Best of the Best KTP Projects of the Year Awards in September 2020 and November 2024. He was honoured with The Most Excellent Order of the British Empire (MBE) in the 2025 King's New Year Honours list for his services to Knowledge Transfer. Professor Adebisi is a Fellow of the Institution of Engineering and Technology (IET), a Senior Member of the Institute of Electrical and Electronics Engineers (IEEE), a Fellow of the Higher Education Academy, and a Chartered Engineer.

Prof. Sabita Maharjan

Keynote Speaker 2

Full Professor at the Department of Informatics, University of Oslo, Norway

09:40 - 10:20

TP2.17

Keynote Speech Title

Energy Edge Intelligence for Sustainable Cities

Sabita Maharjan [SM'19] is a Full Professor at the Department of Informatics, University of Oslo, Norway from September 2022. She received her Ph.D. degree in Networks and Distributed Systems from the University of Oslo and Simula Research Laboratory, Norway, in 2013. She worked as a Research Engineer in Institute for Infocomm Research (I2R), Singapore in 2010. She was a Visiting Scholar at Zhejiang University (ZU), Hangzhou, China in 2011, and a Visiting Research Collaborator in University of Illinois at Urbana Champaign (UIUC), USA in 2012. From 2014-2016 she worked as a Postdoctoral researcher at Simula Research Laboratory (SRL), Norway. From 2017-2022, She worked as a Senior Research Scientist at SRL and SimulaMet, Norway and as an Associate Professor at the University of Oslo, Norway. Professor Maharjan is a recipient of the IEEE TCGCC Outstanding Young Researcher Award 2020. She is the Highly Cited Researcher for 2021, 2022, 2023 and 2024 according to Web of Science- which is an accolade given in recognition of the exceptional research performance demonstrated by multiple highly cited papers that rank in the top 1% of citations for field and year- worldwide. Professor Maharjan's academic services include her role as the - Vice Chair of the IEEE Communications Society Technical Committee on Green Communications and Computing (TCGCC) SIG on Green AI - Editor for IEEE Transactions on Green Communications and Networking (IEEE TGCN) - Associate Editor for the IEEE Internet of Things Journal (IoT-J) - Associate Editor for the IEEE Open Computer Society Journal, and - Guest Editor for top-tier journals such as IEEE Journal on Selected Areas in Communications (IEEE JSAC), IEEE Trans. on Green Communications and Networking (IEEE TGCN), IEEE Access.

Professor Maharjan is the General Co-Chair of the IEEE VTC Spring 2025 to be held in Oslo, Norway in June 2025, the Technical Program Committee Chair of IEEE SmartGridComm 2024 held in Oslo, Norway in Sept. 2024; and the Symposium Chair for the Green Communication Systems and Networks Symposium in the IEEE GlobeCom 2024- held in Cape Town, South Africa in December 2024. In the past, she has contributed actively contributed to the technical program committees of conferences, including top conferences like IEEE INFOCOM and IEEE IWQoS. Her current research interests include Energy informatics, vehicular networks, 5G Beyond, and 6G, network security, Internet of Things, and artificial intelligence for networks.

Dr. Nils Gageik

Keynote Speaker 3

Founder & Managing Partner,
Chief Engineer,
Emqopter GmbH

Exhibitor 1

10:25
-
11:05

TP2.17

Keynote Speech Title

Practical Demonstration of AI Innovation in Emqopter

Dr Nils Gageik graduated with a degree in computer engineering from RWTH Aachen University in 2010. From 2010 to 2016, he was the first research assistant at the newly established Chair of Aerospace Computer Science at the University of Würzburg, where he received his doctorate summa cum laude for his thesis on 'Autonomous quadcopters for indoor exploration'. Mr Gageik received the University Sponsorship Award from the Main-Franconian Business Association in 2014 and the Faculty of Computer Science Award and the Lower Franconian Memorial Foundation Award in 2016. In 2016, Mr. Gageik founded the company Emqopter, which he has been developing with his team as managing partner and chief engineer ever since. Mr Gageik has already been responsible for the implementation of dozens of projects in the fields of research & teaching, logistics, and inspection using autonomous flying robot technology and is a multiple inventor.

Prof. Dejan Vukobratović

Keynote Speaker 4

Professor at the University of Novi Sad, Serbia

11:25
-
12:05

TP2.17

Keynote Speech Title

Evolution Towards 6G through AI/ML Integration

Professor Dejan Vukobratović received a PhD degree in electrical engineering from the University of Novi Sad, Serbia, in 2008, where he is currently a Full Professor. During 2009- 2010, he was a Marie Curie postdoctoral fellow at the University of Strathclyde, Glasgow, UK, after which he was supported by a 3-year Marie Curie Reintegration Grant. He has published more than 50 journal papers and 100 conference papers in top-tier IEEE journals and conferences. He received a best paper award at IEEE MMSP 2010 and IEEE SmartGridComm 2017. He was TPC Co-Chair of IEEE VTC Spring 2020 (Antwerp) and IEEE SmartGridComm 2022 (Singapore), Symposia Chair on IEEE SmartGridComm 2021 (Aachen) and IEEE International Conference on Communications 2023 (Rome), General Chair for BalkanCom 2021 (Novi Sad), IEEE CSCN 2024, and FCN 2025 (Belgrade). His research group was involved in a number of EU and national projects (H2020 C4IIoT, H2020 COLLABS, H2020 SENSIBLE, HE REMARKABLE), and he was the coordinator of the H2020 project INCOMING. His research interests include wireless communications, signal processing, machine learning, and information theory applied in mobile cellular systems (5G and beyond 5G) and IoT communications.

Dr. Omololu Makinde

Keynote Speaker 5

Head of MLOps & Generative AI at Ofcom's AI Centre of Excellence

11:25
-
12:05

TP3.32

Keynote Speech Title

From Vision to Impact: Bridging AI Innovation and Real-World Outcomes in Sustainable Cities

Omololu (Lolu) is a strategic AI and Machine Learning leader with experience delivering enterprise-scale AI strategies, platforms, and products across government, consulting, and fintech. He has a proven track record of defining and executing AI transformation roadmaps, building and leading high-performing global teams, and delivering production-grade solutions that generate measurable business value. Currently heading MLOps and Generative AI initiatives at OFCOM's AI Centre of Excellence, Lolu has delivered a 50% uplift in operational efficiency through intelligent automation. His expertise spans AI transformation, large-scale ML deployment, and Generative AI (LLMs, RAG, LangChain) implementation on cloud-native platforms, including Azure, AWS, and Databricks. Lolu blends hands-on technical depth with board-level strategic vision, ensuring AI innovation is tightly aligned with organisational priorities, regulatory frameworks (e.g., GDPR), and stakeholder impact. He is recognised for his ability to navigate complex governance environments while accelerating AI adoption at scale.

Prof. Sam Goundar

Keynote Speaker 6

Professor of Computer Science position at the University of Central Asia/ Head of Department

11:25
-
12:05

TP2.18

Keynote Speech Title

AI for Climate-Smart Communities: Human-Centric, Explainable with Local Knowledge Integration

Professor Dr. Sam Goundar is an internationally recognised academic with more than 35 years of teaching and research experience across thirteen universities in eleven countries. He is currently a Professor of Computer Science and Head of Department at the University of Central Asia, a Senior Lecturer in Information Technology at RMIT University, Australia (ranked 123rd QS, 251st THE), and a Visiting Professor of Data Science at SRM University, Chennai, India. Throughout his distinguished career, Professor Goundar has held academic positions at leading institutions, including the University of Fiji, Pontificia Universidad Católica del Perú, British University Vietnam, University of the South Pacific (Fiji), Victoria University of Wellington (New Zealand), and the University of Waikato (New Zealand). He has also served as a Research Fellow at the United Nations University and was invited as Visiting Professor and Researcher at Hassan 1st University, Morocco, and Bahir Dar University, Ethiopia. Professor Goundar is Editor-in-Chief of three international journals: the International Journal of Blockchains and Cryptocurrencies (IJBC), the International Journal of Fog Computing (IJFC), and the International Journal of Creative Computing (IJCrC). He is also Editor-in-Chief (Emeritus) of the International Journal of Cloud Applications and Computing (IJCAC), Section Editor of Education and Information Technologies (EAIT), and Guest Editor for the Journal of Risk and Financial Management (JRFM) Special Issue on Digital Banking and Financial Technology. With expertise spanning cloud and fog computing, blockchain, fintech, and creative computing, Professor Goundar is widely regarded as a thought leader shaping the future of emerging digital technologies in both academia and industry.

Marvin Bihl

Keynote Speaker 7

General Manager (Finance), Emqopter GmbH

11:25
-
12:05

TP2.18

Keynote Speech Title

From Classroom to Practical Use Cases – Bringing AI Innovation into Application in Emqopter

Marvin Bihl began his career in audit, consulting, and financial services before a chance meeting at a start-up beer garden in 2017 sparked a new path. There, he discovered Emqopter and was immediately fascinated by the potential of flying robots in civil applications. Just two weeks later, he joined the team and today serves as General Manager (Finance) at Emqopter, one of the leading drone technology companies in Europe. At Emqopter, Marvin has been part of groundbreaking developments in aerial robotics, including the world's first fully autonomous urban Delivery Drone, which made headlines in 2018 as the first unmanned aerial system to operate regularly in unregulated urban airspace in Germany. In 2023, the company reinforced its pioneering role with the launch of the world's first universal Drone Port. Emqopter's portfolio covers a wide range of innovations—from AI sensor-based flight assistance systems and teaching platforms to the Quanipulator, a flying robot equipped with a gripper arm. With a strong focus on autonomy, digitalisation, and sustainability, the company enables safer, more efficient, and cost-effective solutions for industrial applications. Marvin's work is driven by the belief that the airspace above us holds enormous untapped potential for the logistics of the future.

Sydney Eneremadu

Keynote Speaker 8

Founder, Voyage Companion | Conversational AI & Generative AI Innovator, Edinburgh, United Kingdom

11:25
-
12:05

TP2.18

Keynote Speech Title

Agentic AI Domain using Voyage Companion – AI Travel Tech startup

Sydney Eneremadu is a builder at the forefront of Generative AI, Agentic AI, and Conversational AI. He founded the European Chatbot Summit and Africa Chatbot & Conversational AI Summit, creating platforms that unite leading minds innovating in dialogue systems, virtual agents, voice interfaces, and GenAI applications. Through his company, Voyage Companion, Sydney is transforming the TravelTech industry by using AI to personalise experiences, streamline operations, and empower tour operators. His work focuses on connecting global AI ecosystems, supporting early-stage founders, and fostering collaboration among researchers, developers, and applied AI professionals. Sydney is passionate about driving impactful initiatives in Conversational AI, Agentic AI systems, Large Language Models (LLMs), and community-building, actively seeking opportunities to co-create solutions that advance the field.

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1st International Conference on Artificial Intelligence and Sustainable Cities (AI-Scities 2025)

Bognor Regis, United Kingdom

Wednesday 29th October 2025

Technical Programme

Summary of Activity Timetable

Location	Activity	Room	Time	Remark
2nd Floor	Keynote Speech 1 & 2/ Exhibition 1/Track 1 Technical Presentation	TP2.17	08:00–11:25	Tech Park
2nd Floor	Keynote Speech 3/Track 1 Technical Presentation	TP2.17	11:25-14:35	Tech Park
2nd Floor	Keynote Speech 4/Track 2 Technical Presentation	TP2.18	11:25-14:20	Tech Park
3rd Floor	Keynote Speech 5/Track 3 Technical Presentation	TP3.32	11:25-14:20	Tech Park
1st Floor	Keynote Speech 6/Track 4 Technical Presentation	TP1.18	11:25-14:20	Tech Park
4th Floor	Keynote Speech 7/ Track 5 Technical Presentation	TP4.16	11:25-14:20	Tech Park
CDIO	Exhibition 2	CDIO	14:35–14:45	Tech Park
2nd Floor	**Networking/Lunch/Dinner**	**TP2.17**	**14:45-16:45**	Tech Park

Notes: _____

Virtual Rooms (Teams ID for Different Rooms):

- TP1.18: Meeting ID: 389 762 014 315 2 (Passcode: zx7o42b6)
- TP2.17: Meeting ID: 336 436 650 334 1 (Passcode: Fb3Af7ri)
- TP2.18: Meeting ID: 355 821 181 054 5 (Passcode: Fa9rE6Ht)
- TP3.32: Meeting ID: 357 510 095 975 4 (Passcode: 5mG2Td2K)
- TP4.16: Meeting ID: 373 879 872 931 (Passcode: aM7qp9h7)

General Session 1 (All Participants)

Rooms TP2.17

Jack Llyod, Centre for Future Technologies, University of Chichester, UK

Arrival/Networking	Tea/Coffee Refreshment	Catering Services	08:00 – 8:40
Welcome Address	Introduction to the University of Chichester	Dr Ian Lipscomb • Head of School, Sport, Science and Engineering	08:45 – 08:55
Conference Chair Address	Introduction to the Conference	Dr Kelvin Anoh • AI-Scities 2025 Conference Chair	08:55 – 09:00
Keynote Speech 1	Smart Infrastructure for Sustainable Cities	Professor Bamidele Adebisi • Professor in Intelligent Infrastructure Systems and Director of Smart Communities and Innovations at the Department of Engineering, Manchester Metropolitan University, UK	09:00 – 09:40
Keynote Speech 2	Energy Edge Intelligence for Sustainable Cities	Professor Sabita Maharjan • Professor at the Department of Informatics, University of Oslo, Norway	09:40 – 10:20
Exhibition 1	Practical Demonstration of AI Innovation in Emqopter	Dr Nils Gageik • Founder, Emqopter, Germany	10:25 – 11:05
Tea break/ Networking	**Tea break/ Networking**	**Catering Services**	**11:05 – 11:25**

Notes: _____

Parallel session

Rooms TP2.17, TP2.18, TP3.32, TP1.18, TP4.16

Location	Activity	Keynote Speaker	Time	Remark
TP2.17	Keynote Speech 3 • Evolution Towards 6G through AI/ML Integration	Professor Dejan Vukobratovic • Professor at the University of Novi Sad, Serbia	11:25-14:35	Tech Park
TP2.18	Keynote Speech 4 • From Classroom to Practical Use Cases – Bringing AI Innovation into Application in Emqopter	Marvin Bihl • General Manager, Emqopter, Germany	11:25-14:20	Tech Park
TP3.32	Keynote Speech 5 • From Vision to Impact: Bridging AI Innovation and Real-World Outcomes in Sustainable Cities	Dr Omololu Makinde • Head of MLOps & Generative AI at Ofcom's AI Centre of Excellence	11:25-14:20	Tech Park
TP1.18	Keynote Speech 6 • AI for Climate-Smart Communities: Human-Centric, Explainable with Local Knowledge Integration	Professor Sam Goundar • Professor of Computer Science position at the University of Central Asia/ Head of Department	11:25-14:20	Tech Park
TP4.16	Keynote Speech 7 • Piloting AI-Driven Smart Circularity for Urban Sustainability in Emerging Cities and Communities	Dr Ebelechukwu Chitalu • RTI, Nigerian National Petroleum Corporation	11:25-14:20	Tech Park
TP2.17	**Networking/Lunch/Dinner**	**Catering Services**	**14.45–16.45**	Tech Park

Notes: _____

Parallel session

Rooms TP2.17, TP2.18, TP3.32, TP1.18, TP4.16

Location	Activity	Session Chair	Time	Duration
TP2.17	Technical Session • Track 1	Dr Augustine Ikpehai	11:25-14:35	3hrs 10 min
TP2.18	Technical Session • Track 2	Dr Rahul Kumar	11:25-14:20	2hrs 55 min
TP3.32	Technical Session • Track 3	Dr Olaide Oyelade	11:25-14:20	2hrs 55 min
TP1.18	Technical Session • Track 4	Dr Rameez Asif	11:25-14:20	2hrs 55 min
TP4.16	Technical Session • Track 5	Dr Taiwo Adedeji	11:25-14:20	2hrs 55 min
TP2.17	**Networking/Lunch/Dinner**	**Catering Services**	**14.45–16.45**	**2hrs**

Notes:

Room TP2.17 – Track 1: Artificial Intelligence for Smart, Secure, and Sustainable Cities

Session Chair: Dr Augustine Ikpehai, Sheffield Hallam University, United Kingdom

Keynote Speech 3	Evolution Towards 6G through AI/ML Integration	Prof Dejan Vukobratovic • Professor at the University of Novi Sad, Serbia	11:25-12:05	40 min
Technical Presentation				
Paper ID	**Title**	**Authors**	**Time**	**Duration**
Paper ID: 1	RF Sensing to Detect Breathing Abnormality using Machine Learning	Qurat Ul Ain, Rameez Asif, Xiaodong Yang, and Nan Zhao	12:10–12:25	15 min
Paper ID: 2	Exploring the Acoustic Characteristics of Infant Voiced Sounds in a Low-Resource Kannada Language of India	Mahadeva Swamy	12:25–12:40	15 min
Paper ID: 9	Predicting Occupants' Outdoor Comfort Based on Sitting Surfaces Using Machine Learning	Jobayer Hossain, Md Hasan, G. M. Rahad, Md Tafhimul Hasan, Hasibul Hasan Shawon, and Humayun Kabir	12:40–12:55	15 min
Tea Break			12:55–13:05	10 min
Paper ID: 14	Graph–Temporal Fraud Detection with Triplet Loss under Class Imbalance	Ofonime Okon, Bliss Stephen, Philip Asuquo, Imoh Enang, right Agbor, and Emmanuel Edeh	13:05–13:20	15 min
Paper ID: 18	Feature Ranking for Predicting Occupant Visual Comfort in University Laboratories Using Machine Learning	Md. Fardin Al Shafik, Md Al Hossain Mukib, and Mohammad Nyme Uddin	13:20–13:35	15 min

Notes:

Paper ID: 35	Navigating Ethical Dilemmas in AI-Driven Supply Chain Operations	Harish Kasireddy	13:35–13:50	15 min
Paper ID: 36	AI-Driven Speed Optimization for Mixed Traffic Networks Using Adaptive Learning	Sunil Kumar Somavarapu	13:50-14:05	15 min
Paper ID: 40	A Siamese Neural Network-Based Framework for Real-Time Intruder Detection	Francis Oyediran, Abiodun Musa Aibinu, Idowu Ayoade, Oluwadare Adebisi, and Omowunmi Mary Longe	14:05–14:20	15 min
Paper ID: 44	An IoT-Enabled Fractional Co-Infection Model for Infectious Disease Control	Kennedy Chinedu Okafor, Titus I. Chinebu, Kennedy Okafor, Kelvin Anoh, Omowunmi Mary Longe Longe, Ijeoma Peace Okafor, Diovu Remigius Chidiebere, Ethel Ebere Adimora, Florence Obiageli Nduka, Andrew Omame, Simon Keates, and Sabita Marharjan	14:20–14:35	15 min

Notes:

Room TP2.18 – Track 2: AI Technologies, Infrastructure, and Embedded Systems

Session Chair: Dr Rahul Kumar, Centre for Future Technologies, University of Chichester, UK

Keynote Speech 4	From Classroom to Practical Use Cases – Bringing AI Innovation into Application in Emqopter	Marvin Bihl • General Manager, Emqopter, Germany	11:25-12:05	40 min
Technical Presentation				
Paper ID	**Title**	**Authors**	**Time**	**Duration**
Paper ID: 26	FAST-TB: An FPGA-Accelerated System for AI-based Tuberculosis Detection on KV260	Arthur Nathaniel Mwang'Onda, Joel Mandebi Mbongue, Omar Gatera, and Desire Ngabo	12:10–12:25	15 min
Paper ID: 3	Comparative Performance Analysis of Variational Quantum Classifier and Quantum Kernel SVM under NISQ Noise Models Using Qiskit Aer	Mahadeva Swamy	12:25–12:40	15 min
Paper ID: 4	Comprehensive Analysis of Variational Quantum Classifier and Quantum Kernel SVM under NISQ Noise with Classical Baseline and Statistical Significance Evaluation	Shreevijay S Ittannavar, Bhavaling Alias Pratima Khot, and Mahadeva Swamy	12:40–12:55	15 min
Tea Break			14:10–14:20	10 min
Paper ID: 8	Predicting TVOC in University Cafeterias Using Machine Learning-based regression models	Mim Mony, Firuja Tasneem, Lamia Jamal, and Mohammad Nyme Uddin	13:05–13:20	15 min

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Paper ID: 11	A Multi-Class Heart Disease and Stroke Risk Classification Framework for Combined Assessment: A Machine Learning Approach	Abrar Rakin, Md. Istiak Ahamed, Farhan Hassin, Kashfi Shormita Kushal, Nazmul Hasan Shouvo, and Md. Samiul Alom	13:20–13:35	15 min
Paper ID: 15	A CNN and BiLSTM Network for Predicting Job Failures in Dynamic Cloud Workloads	Wunukhen Awudu, Oluseun Oyeleke, Ezekiel Adediji, Philip Asuquo, Sadiq Thomas, and Bliss Stephen	13:35–13:50	15 min
Paper ID: 17	Spatio-Temporal Modelling of Temperature Data using Machine Learning	Joshua Ezugwu, Philip Asuquo, Bliss Stephen, Simeon Ozuomba, Williams Adaji-Agbane, Adamson Oloyede, Onyebuchi Nnah, and Joseph Ikpe	13:50-14:05	15 min
Paper ID: 41	A Privacy-Preserving Federated Learning Framework for Electric-Vehicle Attack Detection Using Transformers	Elvin Eziama, Kennedy Okafor, and Remigius Diovu	14:05–14:20	15 min

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Room TP3.32 – Track 3: Security, Accountability, Fairness, and Ethics in AI

Session Chair:
Dr Olaide Oyelade, North Carolina Agricultural and Technical State University, USA

Keynote Speech 5	From Vision to Impact: Bridging AI Innovation and Real-World Outcomes in Sustainable Cities	Dr Omololu Makinde • Head of MLOps & Generative AI at Ofcom's AI Centre of Excellence	11:25-12:05	40 min
Technical Presentation				
Paper ID	**Title**	**Authors**	**Time**	**Duration**
Paper ID: 10	Smart Contract-Based Automated Response System for IoT Attacks in Web3 Ecosystems	Samuel Bassey, Bliss Stephen, Philip Asuquo, Bright Agbor, and Emediong Obot	12:10–12:25	15 min
Paper ID: 13	Epistemic Responsibility in AI-Enabled Societies: Ethics and Policy in the Era of Information Warfare	Abasianie Etuk, Bliss Stephen, Philip Asuquo, Abasiodiong Etuk, Emmanuel Udoh, and Sadiq Thomas	12:25–12:40	15 min
Paper ID: 21	XSG-Ensemble: A Weighted Voting Ensemble Machine Learning Model for Enhanced Chronic Kidney Disease Prediction	Md. Istiak Ahamed, Abrar Rakin, Abu Bakar Rakib, Md. Hasan and Md Nazir Ahmed	12:40–12:55	15 min
Tea Break			14:10–14:20	10 min
Paper ID: 23	AI-Assisted PCOS Detection from Ultrasound Scans: Benchmarking VGG16, ResNet50, and EfficientNet	Sharmin Sultana Akhi, Md. Anamul Hoque Tomal, Ferdaus Anam Jibon, and Md Samiul Alom	13:05–13:20	15 min

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Paper ID: 24	Cross-Project Software Defect Prediction Using Machine Learning with Optimized Feature Selection	Emediong Obot, Bliss Stephen, Philip Asuquo, Victor Anaga, Samuel Bassey, Amarachi Nnajiofor, Sadiq Thomas, and Solomon Udoabba	13:20–13:35	15 min
Paper ID: 28	DistilBERT vs Gemma-3 270M for Mobile Cyberbullying Detection: A Comparative Study	Emmanuel Edeh, Wisdom Etim, Bliss Stephen, Philip Asuquo, Amarachi Nnajiofor, Ofonime Okon, Princewill Ahumaraeze, Sadiq Thomas and Israel Umana	13:35–13:50	15 min
Paper ID: 29	Sleep Disorder Classification Using HSE-NET Ensemble: A Robust Machine Learning Framework	Md Istiak Ahame, Abrar Rakin, Khaja Sabik Ahmed, Mohibur ahman Rifat and Jabunnesa Jahan Sara	13:50-14:05	15 min
Paper ID: 42	IoT-Enabled Fractional-Order Telemedicine for Real-Time Antenatal Health Monitoring	Onuora Ogechukwu Nneka, Kennedy Chinedu Okafor, Titus Ifeanyi Chinebu, Kelvin Anoh, Christopher A. Nwabueze, Chimaihe B. Mbachu, J.P. Iloh, Omowunmi Mary Longe, and Rowland Inalegwu Oplekwu	14:05–14:20	15 min

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Room TP1.18 – Track 4:
AI for Resilience in Environment, Agriculture, and Living Systems

Session Chair:
Dr Rameez Asif, University of Greater Manchester, United Kingdom

Keynote Speech 6	AI for Climate-Smart Communities: Human-Centric, Explainable with Local Knowledge Integration	Professor Sam Gounda • Professor of Computer Science position at the University of Central Asia/ Head of Department	11:25-12:05	40 min

Technical Presentation

Paper ID	Title	Authors	Time	Duration
Paper ID: 12	Natural Language Processing for the Prediction of Chronic Diseases from Electronic Health Records	Uduak Luke, Victor Anaga, Bliss Stephen, Philip Asuquo, Iniubongabasi Etim, and Wisdom Etim	12:10–12:25	15 min
Paper ID: 16	Evaluation of Short-Term Effect of Exposure to Air Contamination on Mental Health: A Machine learning approach	Uduak Luke, Emmanuel Abraham, Emem Abang, Abasianie Etuk, Iniubongabasi Etim, Bliss Stephen, and Sadiq Thomas	12:25–12:40	15 min
Paper ID: 27	Machine Learning Model for Predicting Antibiotic Resistance Patterns from Protein Sequences	Princewill Ahumaraeze, Uduak Luke, Iniubongabasi Etim, Ofonime Okon, Chidera John, Bliss Stephen, Philip Asuquo, Sadiq Thomas, and Bright Agbor	12:40–12:55	15 min

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Tea Break			14:10–14:20	10 min
Paper ID: 45	Towards AI-Enabled Smart Mosquito Control for Urban Malaria Management Using Plant-Based Larvicides and IoT Nets	Juliet Onyinye Nwigwe, Kennedy Okafor, Titus Ifeanyi Chinebu, Ogonna Christiana Ani, Okafor Ijeoma Peace, Omowunmi Mary Longe, Kelvin Anoh, Romanus Ifeanyichukwu Iroha, and Scholastica Chidi Okoli	13:05–13:20	15 min
Paper ID: 47	IoT-Enabled Smart Robotic Framework for Controlling COVID-19 Spread in Closed Communities in England	Kennedy Chinedu Okafor, Kelvin Anoh, Titus Ifeanyi Chinebu, Omowunmi Mary Longe Longe, Gloria Azogini Chukwudebe, Henrietta Onyinye Uzoeto, Romanus Ifeanyichukwu Iroha, Adaora Lynda Onuora and Ijeoma Onyinye Okoro	13:20–13:35	15 min
Paper ID: 48	IoT-Enabled Fractional-Order Biodynamic Modelling for Multi-Route Disease Surveillance in Reservoirs and Dumpsites	Titus Ifeanyi Chinebu, Kennedy Chinedu Okafor, Henrietta Onyinye Uzoeto, Victor Onukwube Apeh, Okafor Ijeoma Peace, Kelvin Anoh, Omowunmi Mary Longe Longe, Romanus Ifeanyichukwu Iroha, and Ifenze Mellitus Ogochukwu	13:35–13:50	15 min
Paper ID: 49	Design and Development of a Malaria Hemozoin Rapid Diagnostic Test	Onyeka Onumadu, Akintayo Ojo, Ogochukwu Ifenze, Agatha Aballa, Promise Okpe, and Ebube Edwin	13:50-14:05	15 min
Paper ID: 50	Evaluation of Machine Learning Feature Selection Techniques for Total Organic Carbon Prediction Using Well Logs in Source Rock Determination	Fodio Sambo Longman, Ojulari Rasheed, and Olaniyi James Olatomiwa	14:05–14:20	15 min

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Room TP4.16 – Track 5:
General Applications and Recent Development in AI Research

Session Chair:
Dr Taiwo Adedeji, University of Portsmouth, United Kingdom

Keynote Speech 7	Piloting AI-Driven Smart Circularity for Urban Sustainability in Emerging Cities and Communities	Dr Ebelechukwu Chitalu • RTI, Nigerian National Petroleum Corporation	11:25-12:05	40 min
Technical Presentation				
Paper ID	**Title**	**Authors**	**Time**	**Duration**
Paper ID: 19	A Deep Learning Model for Accurate Prediction in Cloud Computing Workloads	Okore Kalu, Philip Asuquo, Bliss Stephen, Chijioke Okafor, Nnaemeka Nwachukwu, and Reginald Ogu	12:10–12:25	15 min
Paper ID: 20	Enhanced Intrusion Detection in IoT Networks using Federated Learning	Chidera John, Michael Ighofiomoni, Ezekiel Adediji, Eduediuyai Dan, Bliss Stephen, Sadiq Thomas, Philip Asuquo, Okorafor Godfrey, and Wunukhen Awudu	12:25–12:40	15 min
Paper ID: 6	Explainable Ensemble Framework for Cyber Threat Detection in UAV Networks	Caleb Chidimma, Imoh Enang, Bliss Stephen, Philip Asuquo, Bright Agbor, Vivian Bassey, and Ihemereze Nnanna	12:40–12:55	15 min
Tea Break			14:10–14:20	10 min
Paper ID: 31	Machine Learning-Based Detection of DDoS Attacks on Advanced Metering Infrastructure Networks in Smart Grid	Samuel Bassey, Bliss Stephen, Philip Asuquo, Emmanuel Ogungbemi, Margaret Okpor, Victor Anaga, Michael Ighofiomoni, Joshua Ezugwu, and Sadiq Thomas	13:05–13:20	15 min

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Paper ID: 34	An Attention-Based TabNet Framework for Fault Detection and Diagnosis in HVAC Systems with Limited Labeled Data	Immanuel Samuel, Simeon Ozuomba, Ofonime Okon, Bliss Stephen, Philip Asuquo, and Bright Agbor	13:20–13:35	15 min
Paper ID: 37	Fall Detection System: LiDAR and Machine Learning for Non-Intrusive Monitoring	Gary Warner	13:35–13:50	15 min
Paper ID: 38	Use Case of Agentic AI and IoT in 6G Networks for P2P Energy Trading in Smart Grids	Onyeka Onumadu, Akintayo Ojo, Ogochukwu Ifenze, Agatha Aballa, Promise Okpe, and Ebube Edwin	13:50-14:05	15 min
Paper ID: 39	AI-Enabled Optical Wireless Communication for Implantable and Wearable Biomedical Systems	Remigius Chidibere Diovu, Kennedy Chinedu Okafor, Barnabas Uchenna Ugwuanyi, Titus Ifeanyi Chinebu, Elvin Ugonna Eziama, Omowunmi Mary Longe Longe, and Kelvin Anoh	14:05–14:20	15 min

Tech Park Workshop/CDIO
General Session 2 (All Participants)

Raz Samy
Centre for Future Technologies, University of Chichester, UK

	Activity	Lead Person	Time	Venue
Exhibition 2	Fighting Robots	• Gareth Anstee • Jack Llyods	14:30–14:45	CDIO
Lunch/Dinner				
Networking Dinner Farewell Address	AI-Scities 2026 Discussion	Dr Kelvin Anoh	14:45–16:45	Room TP2:17

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THANK YOU TO OUR PARTNERS

Institute of Electrical and Electronics Engineers

University of Chichester United Kingdom

IEEE Skillup Hub Region 8,UK

Centre for Future Technologies,UK

IEEE Student Branch, University of Chichester UK

Association of Artificial Intelligence and Machine Learning of Nigeria

Federal University of Allied Health Sciences, Nigeria

Emerald Publishing

University of Johannesburg,SA

Elsevier Scopus

Volunteers

- Jack Lloyd, Head of Innovation Club, Centre for Future Technologies, University of Chichester
- Raz Samy, Head Technician, Centre for Future Technologies, University of Chichester
- Marina Osman-Salleh, Administrator, Faculty of Science, Engineering and Health

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