

The Smart & Intelligent Cities SIG 'Artificially Intelligent Cities?'

6th February 2024

The **Smart & Intelligent Cities SIG** is championed by Dejan Bojic of **Department of Science, Innovation and Technology (DSIT)**, David Brown of **Futurehand**, Mary-Ann Claridge of **Mandrel Systems**, Dan Clarke of **Greater Cambridge Partnership**, and John Davies of **Department for Business & Trade**

Venue: The Bradfield Centre, 184 Cambridge Science Park, Milton Road, Cambridge, CB4 0GA

This event will look at what opportunities there are for Cities with new AI tools & applications & the potential drawbacks. City Authorities face significant challenges - congestion, poor air quality, the delivery of services, public health & climate change. AI & technologies such as machine learning are increasingly being deployed to help address these issues. At this event we will hear from companies & cities deploying AI & explore use cases, discuss the readiness of councils to harness AI & debate issues such as ethics and public perception.

AGENDA

13:30 Registration, tea, coffee and networking

14:00 CW welcome and introduction to the **Smart & Intelligent Cities SIG by Dan Clarke, SIG Champion and Head of Technology & Innovation, Greater Cambridge Partnership**

14:10 **Session to be chaired by Dan Clarke, Smart & Intelligent Cities SIG Champion and Head of Technology & Innovation, Greater Cambridge Partnership**

'An overview of AI - what it is, what it isn't'

Phil Claridge, CW AI SIG Champion and Founder, Mandrel Systems

The difference between AI & ML and why that's relevant to cities.

14:30 Q & A

14:35 'Safer, Smarter, Stronger Pedestrians (and Cyclists)'

Andrew Caley Chetty, Co-founder, Starling Technologies

Starling Technologies aims to change the safety, availability and efficiency of urban walking and cycling. After a successful trial of Starling Detector, which optimised a pedestrian crossing to prioritise pedestrians, enabling a pedestrian green-wave, the next step is to create walking super-highways across Cambridge. Andrew discusses how Starling's citizen-centric AI enables this to happen.

14:55 Q & A

15:00 Anna Jordan, Co-Founder & CEO, Alchera Technologies

15:20 Q & A

15:25 Refreshment break and networking

15:55 **Session to be chaired by David Brown, Smart & Intelligent Cities SIG Champion and Founding Director, Futurehand**

'Begin your AI Journey: How to build your AI powered city & your centre of excellence'

Sherin Mathew, CEO & Founder, AI Tech UK

16:15 Q & A

16:20 'Empowering Cities with Responsible AI'

Daniele Quercia, Director of Responsible AI, Nokia Bell Labs

We will delve into the future of urban living by creatively leveraging four datasets, grounding technological solutions in the principles of Responsible AI. The discussion encompasses tracking well-being through food purchases, quantifying cultural capital using geo-referenced pictures, predicting city innovation through online work records, and profiling psychological resilience to COVID-19 via tweet analysis. This presentation underscores the transformative potential of digital data in comprehending and enhancing urban dynamics.

16:40 Q & A

16:45 Panel session chaired by David Brown, SIG Champion and Founding Director, Futurehand

17:10 Wrap-up

17:15 Event close

Profile of organisers

Cambridge Wireless (CW)

CW is the leading international community for companies involved in the research, development and application of wireless and mobile, internet, semiconductor and software technologies. With over 400 members from major network operators and device manufacturers to innovative start-ups and universities, CW stimulates debate and collaboration, harnesses and shares knowledge, and helps to build connections between academia and industry. CW's 20 Special Interest Groups (SIGs) provide its members with a dynamic forum where they can network with their peers, track the latest technology trends and business developments and position their organisations in key market sectors. CW also organises major conferences and start-up competitions along with other high-quality industry networking events and dinners. With headquarters at the heart of Cambridge, UK, CW partners with other international industry clusters and organisations to extend its reach and remain at the forefront of global developments and business opportunities. www.cambridgewireless.co.uk

Profile of Smart & Intelligent Cities SIG Champions

Dejan Bojic, Future Network Programmes, Department of Science, Innovation and Technology (DSIT)

www.gov.uk/government/organisations/department-for-science-innovation-and-technology

Dejan is a senior consultant who has advised a range of clients across both public and private sectors. His particular focus is development of open and shared connectivity and data infrastructure to support product development and service transformation within complex innovation ecosystems. Dejan's currently employed by the UK government's Department for Science, Innovation and Technology (DSIT) where he leads the technology advisory team within Future Networks Programme. Prior to this role he has successfully delivered Digital Connectivity Infrastructure Accelerator (DCIA) programme for DSIT/DCMS. A firm believer in creating value through collaboration between public and private sectors and across technology layers, Dejan's aspiration as a SIG Champion is to shine a spotlight on market innovation opportunities through CW's uniquely rich network of experts and influencers.

David Brown, Futurehand www.futurehand.co.uk

David has spent the past 15 years helping start-up/scale-up companies in the UK building successful Customer Service, Customer Success, and Professional Services teams. He has done this mainly as a player/coach; initially working with customers himself and only building teams once he's gained a clear understanding of what's needed to support the company's unique customer base. In 2015, he used the knowledge gained from years of working in web analytics to found Adavow, an ad suppression platform that enables advertisers and ad networks to stop serving digital ads to consumers who have recently purchased a similar item, which increases digital budget efficiency by 10% or more. David is a keen believer that the best way to become successful is to help others become successful and "What comes around, goes around."

Mary-Ann Claridge, Mandrel Systems www.mandrel.com

Mary-Ann is the Lead data scientist at Mandrel Systems. She started her career with research into sonar (think Hunt for Red October without Sean Connery). She is now embracing application and technical domains including education (all the analysis, modelling and visualisation for BestCourse4Me), smart city, retail, voice and speech recognition, and financial and logistical optimisation.

Dan Clarke, Greater Cambridge Partnership www.greatercambridge.org.uk

Dan leads the Smart Cambridge Programme which was set up to explore how data, innovative technology and better connectivity can be used to transform the way people live, work and travel in the Greater Cambridge area and beyond. Local councils, technology businesses, university researchers and partner organisations are working together to find smart ways to tackle city challenges, such as transport and air quality.

John Davies, Department for Business & Trade www.gov.uk/government/organisations/department-for-business-and-trade

John has carried out a unique mix of strategic and operational roles with placements in the USA and Europe and partnerships in Asia. Over recent years much of his private sector and Government activities has been in the area of mobile and wireless communications, digital media, Smart Cities, Cloud and Big Data and M2M/IoT as well as emerging and disruptive technologies. Helping technology start-ups in the UK and internationally sourcing technology and partners as well as provide due diligence in areas of M&A and stock listings. Operating as a UK Government Advisor John has briefed both UK and International Government Ministers and Departments on Smart Cities and respective technologies and applications. This has included providing international workshops, mentoring and consulting at senior levels. John has designed and ran awareness and implementation workshops for international companies and led international delegations to overseas markets, the most recent to Singapore and Malaysia in partnership with InnovateUK. John is an active member of the All-Party Parliamentary Group for Smart Cities. John will be engaging with potential new international companies and organisations and supporting CW member companies.

Profile of speakers

Andrew Caley Chetty www.starlingtech.co.uk

Andrew Caley Chetty is director and partner at Starling Technologies, and over the years, he has founded many cultural, technology and entertainment initiatives for interactive, participatory physical spaces. With two decades of experience in technology deployment and product creation, in particular, working with cities throughout the world, his expertise spans everything from developing IoT search engines to technological applications for complex urban technology deployments.

Phil Claridge, Mandrel Systems www.mandrel.com

Phil Claridge is a 'virtual CTO' for hire within Mandrel Systems covering end-to-end systems. Currently having fun and helping others with large-scale AI systems integration, country-wide large scale big-data processing, hands-on IoT technology (from sensor hardware design, through LoRa integration to back end systems), and advanced city information modelling. Supporting companies with M&A 'exit readiness', due-diligence and on advisory boards. Past roles include: CTO, Chief Architect, Labs Director, and Technical Evangelist for Geneva/Convergys (telco), Arieso/Viavi (geolocation), and Madge (networking). Phil's early career was in electronics, and still finds it irresistible to swap from Powerpoint to a soldering iron and a compiler to produce proof-of-concepts when required.

Anna Jordan, Alchera Technologies www.alchera-technologies.com

Anna Jordan is a Co-Founder and COO of Alchera Technologies. She has an MSc in Physics from Imperial College London and continues her involvement with the university by supporting women in STEM as a key member of the Imperial Women's Network Steering Committee. Anna is an active Advocate of Tech London Advocates and has been previously published in The Sunday Times.

Sherin Mathew, AI Tech UK www.ai-tech.uk

Sherin Mathew is a recognised AI Leader and leading AI Ethicist in the UK. A Founder, CEO, and Serial Entrepreneur, with a deep-rooted passion for wider AI Awareness, Impact, Ethics, and Intellectual Privacy. As a former IBM AI Expert at Global Business Services UK, Sherin's specialism is transforming businesses into cognitive enterprises. Sherin is an award-winning CEO of AI Tech UK (<https://www.ai-tech.uk/>) and is responsible for delivering the National AI Strategy and democratising AI Awareness with UK businesses since 2018. Sherin is a Tech4good champion and a pioneer in the space of Ethics and Sustainability Management in Digital Transformation. Sherin is the founder of <https://smartethics.net/>, a groundbreaking open AI Ethics management platform forged with global partners and institutes. Sherin is an AI Strategist and board advisor for West Yorkshire Combined Authority, and also the Chief AI advisor for ambitious SMEs, DeepTech Startups, and the UK AI policy team (DSIT) with a mission to "Disrupt the AI Disruption"! Sherin is an untiring advocate for the creative, innovative, and ethical elements of intelligent technologies. As an accomplished Public Speaker, AI Ethicist, and Evangelist, Sherin promotes thought-provoking ideas, shares his technical knowledge, and advises on best practices.

As an AI Influencer, Sherin is recognised for delivering national-level strategy and engagements with global partners from the North. He has published thought-provoking papers and is listed as a Top leader in 60 Leaders in AI: <https://www.60leaders.com/leader/sherin-mathew>
Top 5 Asians in Tech: <https://asiansintech.com/top-100-asian-stars-in-uk-tech-2023-top-5s/>

DataIQ-Top100 Leaders: <https://www.dataiq.global/dataiq100-2021/profile/sherin-mathew-chief-executive-officer-and-founder-ai-tech-north>

Prolific North: <https://www.prolificnorth.co.uk/feature/unveiling-the-dark-side-of-ai/>

Sherin founded the idea of Intellectual Privacy, proposing the sanction of new Human Rights to Intelligence. To inspire and educate others on this evolving topic, he produced a documentary about Intellectual Privacy, which can be found in full here: <https://publicintelligence.org/> or take a look at the 1-minute documentary trailer here: <https://www.youtube.com/watch?v=iHPBkquR9Pw>

Daniele Quercia, Nokia Bell Labs www.bell-labs.com

Daniele Quercia is Director of Responsible AI at Nokia Bell Labs Cambridge (UK) and Professor of Urban Informatics at the Center for Urban Science and Progress (CUSP) at King's College London. He has been named one of Fortune magazine's 2014 Data All-Stars, and spoke about “happy maps” at TED. He was Research Scientist at Yahoo Labs, a Horizon senior researcher at the University of Cambridge, and Postdoctoral Associate at the department of Urban Studies and Planning at MIT. He received his PhD from UC London. www.researchswinger.org