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ARTIFICIAL INTELLIGENCE
DATA SCIENCE

FEBRUARY 17-18, 2025
WEBINAR

3rd GLOBAL WEBINAR ON ARTIFICIAL INTELLIGENCE & DATA SCIENCE

FEBRUARY 17-18, 2025

WEBINAR | ZOOM MEETINGS

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ARTIFICIAL INTELLIGENCE
DATA SCIENCE
FEBRUARY 17-18, 2025
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3rd GLOBAL WEBINAR ON

ARTIFICIAL INTELLIGENCE & DATA SCIENCE

FEBRUARY 17

08:50-09:00 Welcome Speech & Opening Ceremony

Plenary Forum

09:00-09:40

Dr. José Miguel Zaldo, Devol Africa, Spain

Title: The most practical applications of AI in Companies and Institutions and their Effects in Competitiveness and Employment

09:40-10:20

Dr. Noha Saleeb, Middlesex University, UK

Title: Applications of Machine Learning in Sustainable Lifecycle Analysis of Buildings (LCA)

Keynote Forum

10:20-10:55

Dr. Minsang Yu, Autonomous A2Z, South Korea

Title: Trends and Prospects for Commercialization of AVs

10:55-11:30

Otman Nouinou, OS Websolutions, Netherlands

Title: Cognitive AI and Data: Shaping the Future of Human-Centric Smart Cities

11:30-12:05

Balaji Sundara, Composio.dev, USA

Title: Importance of Tools for AI Agentic Methods

12:05-12:40

Oluwole Fagbohun, Readrly, UK

Title: Hidden Persuasion: Analyzing Bias in International Negotiation Texts with AI

12:40-13:15

Dr. Uma Mahesh R N, ATME College of Engineering, India

Title: Deep Convolutional Neural Network (CNN) for threedimensional (3-D) objects classification using phase-only digital holographic information

Lunch (13:15-13:30)

13:30-14:05

Bisola Kayode, Deloitte, UK

Title: The State of AI-Driven Cybersecurity: Trends, Challenges, and Opportunities

14:05-14:40

Samuel Akerele, Cybersecurity Analyst, Cyblack, UK

Title: Modern Deep Learning approaches for Malware Detection and Classification

14:40-15:15

Erik Thomsen, Sensepoint Inc, USA

Title: Improving the Warranted Trust in AI-Driven Systems

Plenary Forum

15:15-15:55

Prof. Richard Larson, MIT, USA

Title: MODEL THINKING for Everyday Life

15:55-16:35

Prof. Francesco Iarlori, AI Transformation Strategist, Italy

Title: How AI is Revolutionizing Creative Industries and Professions

Oral Forum

16:35-17:05

Toluwaleke Ogidan, Vuhosi, UK

Title: Enhancing Stability in Machine Learning Model Explanations with S-LIME: A Case Study on RUL Prediction

17:05-17:30

Milena Živković, University of Kragujevac, Serbia

Title: A Deep Learning Approach to Tumor Segmentation and Adaptive Radiotherapy Planning: Methods and Evaluation

17:30-18:00

Lanre Shittu, Vuhosi, UK

Title: The Future of Concrete Testing: Machine Learning Approach

18:00-18:30

Dr. Venkata Duvvuri, Siriusmindshare LLC, USA

Title: Lift And Shift Of Model Code Using Machine Learning Microservices With Generative AI Mapping Layer In Enterprise SaaS Applications

End of Day-1

SCIENTIFIC PROGRAM

CET TIME ZONE

ARTIFICIAL INTELLIGENCE DATA SCIENCE

FEBRUARY 17-18, 2025
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3rd GLOBAL WEBINAR ON

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February 18

08:50-09:00 Welcome Speech & Opening Ceremony

Keynote Forum

09:00-09:35

Prof. Rodolfo Valacca, MediaLife S.r.l., Milan, Italy

Title: Revolutionizing Media: AI-Powered Voice Cloning and Face Swapping

09:35-10:10

Mark Breslin, Amplifi & Impact Limited, UK

Title: Scaling AI Solutions: From Pilot to Enterprise-Wide Implementation

Oral Forum

10:10-10:40

Miss. Qing Shen, Said Business School, Oxford University, China

Title: Barriers to Large-Scale AI Adoption in Modern Manufacturing and Six Strategies for Enhancing Human-AI Collaboration in the Future Manufacturing

10:40-11:10

Prof. Hind Lamharhar, INSEA, Morocco

Title: Integrating Enterprise AI in Customs Administration: Balancing Privacy, Budget, and Optimization

11:10-11:40

Prof. Deshinta Arrova Dewi, INTI International University, Malaysia

Title: Revolutionizing Agriculture: AI-Driven Intelligent Fruit Selection and Grading in the New Era of Data Science

11:40-12:10

Dr. Shakira Ghazanfar, NARC, Pakistan

Title: Machine Learning in Selection of Probiotic Yeast for Personalized Gut health management

12:10-12:40

Dr. David Roldán Martínez, Apinity, Spain

Title: What Do Pepperoni Pizza and Autonomous AI Agents Have in Common?

12:40-13:10

Pablo Nastar, ChappyGo, France

Title: Ensuring AI Alignment: Balancing Technological Advancement with Human-Centric Goals

13:10-13:40

Dr. Douglas Amante, Osel e-learning revolution, Italy

Title: Adapting AI for Personalized Learning: Unlocking Potential Through Flexibility and Inclusivity

13:40-14:10

Dr. Rami Ayoob, Spark Information Technology, Bahrain

Title: The Role of AI in Digital Transformation

14:10-14:40

Michael Glaros, Artemis Industries, Cyprus

Title: Define and Prioritize High Impact GenAI Use Cases

3rd GLOBAL WEBINAR ON ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Prof. Richard Larson

Massachusetts Institute of Technology, USA

MODEL THINKING for Everyday Life

Abstract:

We discuss a new active-learning book, ***MODEL THINKING for Everyday Life***, published by INFORMS. The book is designed to be engaging, interactive, instructive, and fun! The reader will use a sharpened pencil and a Blank Sheet of Paper to move forward on many topics. A key motivation is our perception that much "learning" these days takes place on the computer. People often confuse a Google search with learning. They confuse dropping data into a "plug and chug" algorithm with learning. With reliance on technology, they have lost track of orders of magnitude, losing ability to guestimate the approximate answer to a problem. Faced with a new problem, people often lack the ability to frame and formulate it using basic principles. So, we move ahead with all computers off, our only technology being a **sharpened pencil** and many **Blank Sheets of Paper**.

Model thinking has two equally important and related interpretations: (1) exemplary thinking—a type of thinking to be emulated, and (2) thinking aided by conceptual and/or mathematical models. Just like there are "model citizens," we can have, "model thinkers!" In many problems, both interpretations of model thinking can help to get us to where we want to go—to full problem comprehension. For instance, a model thinker will often utilize mathematical or conceptual models as part of her analysis of a problem. And we would hope that those who primarily use such formal models in their work are also model thinkers more broadly!

Model thinking goes hand in hand with "discovery learning." By applying methods of model thinking to a previously unanalyzed (by you) process, you yourself discover and then understand the full operation of the process. This is much better than simply seeking "an answer" via a search engine, writing it down and soon forgetting it. Discovery learning tends to be remembered learning. Benjamin Franklin summarized it well: "Tell me and I forget. Teach me and I remember. Involve me and I learn."

Biography:

Prof. Richard Larson's career has focused his operations research and systems expertise on a wide variety of problems, in both public and private sectors. He is author, co-author or editor of six books and author or co-author of over 175 scientific articles, primarily in the fields of urban service systems (esp. emergency response systems), disaster planning, pandemics, queueing, logistics, technology-enabled education, smart-energy houses and workforce planning. His first book, Urban Police Patrol Analysis was published by MIT Press, in 1972) was awarded the Lanchester Prize of the Operations Research Society of America (ORSA). He is co-author, with Amedeo Odoni, of the widely used Urban Operations Research, Prentice Hall, 1981 (over 1,000 citations). Prof. Larson's research on queues has not only resulted in new computational techniques (e.g., the Queue Inference Engine – an early example of data-driven research – and the Hypercube Queueing Model – 740 citations), but has also been covered extensively in national and international media.

3rd GLOBAL WEBINAR ON ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Dr. José Miguel Zaldo

Unal 3000 asociados SL, Spain

The most practical applications of AI in Companies and Institutions and their Effects in Competitiveness and Employment

Abstract:

The most practical applications of AI in Companies and Institutions are authomations of processes which many authors call RPA with AI (Robotic Process Automation with Artificial Intelligence). With this procedure any process with an protocol can be automatised and be done as well as the best prepared person, but faster, cheaper and without mistakes; most of the specialist we think that today we can automatised around 50% of tasks made by people in private companies and more than 70% in public administration, because, on this case most of the tasks have rules, and even laws, making them much more easear to automatised. Everybody agrees that this procedure will improve the competitivenes improving efficiency but there are also still people that think that this automatisation will destroy many employees but the reality is that the only employs to be eliminated because does not give any value are the public employment which now are only following rules and protocoles, because the private companies improving their competitivenes are able to grow and create new and better employs for people displaced by RPA and AI, being my conclusion than only reduce employment the companies that apply it just to reduce employment. The more we apply RPA and AI the more and better employment we will create in private companies and the more efficient and cheaper will public service be, permitting to reduce taxes making an economy still more competitive.

Keywords: Automatisation; RPA, AI, Competitiveness, Employment, Efficiency

Biography:

Dr. José Miguel Zaldo career is a seasoned professional with extensive expertise in business transformation, artificial intelligence, and fostering competitiveness in Africa. As the founder and president of Unal 3000 Asociados SL, he has led investments and technology initiatives since 1.987. He currently serves as CEO of Devol Africa, promoting AI-driven process automation in Africa, and is a partner at Firstwind Group, advancing renewable energy solutions across Morocco and Africa, among other projects. His specialty is developing in Africa successful business in other countries.

Previously, José held pivotal roles, including Chairman and President of Tavex Group where he led an MBO, senior advisor at Blackstone's Fisterra Energy and McGraw Hill Professional, where he shaped strategies in energy and education. His academic background features a PhD in Artificial Intelligence from Deusto Business School and executive training at Harvard University. José is also a prolific author and speaker on AI, employment, and Africa's economic integration. Decorated with the Wissam Alaoui by King Mohamed VI, he continues to bridge industries and cultures.

3rd GLOBAL WEBINAR ON ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Dr. Noha Saleeb

Middlesex University, UK

Applications of Machine Learning in Sustainable Lifecycle Analysis of Buildings (LCA)

Abstract:

One of the major problems worldwide is the energy waste and carbon emissions produced within the construction industry. Buildings account for approximately 40% of the European Union (EU)'s total energy consumption and 36% of CO_2 emissions. On the global scale, the construction sector is responsible for more than 37% of energy and embedded / operational carbon emissions. An astonishing 97.5% of the EU building stock is energy inefficient. As such it is imperative to utilise innovative technological advances to address this urgent climate change problem. This webinar will discuss how Machine Learning functionalities can be used to resolve different aspects of enhancing buildings' sustainable performance, including energy efficiency and carbon reduction. It will also discuss its applications in enhancing indoor microclimate for space users including health, safety and well-being, ad circularity of building materials and processes. An alignment will be highlighted between different Machine Learning algorithms and lifecycle Analysis categories. This will include showcasing the potential for achieving the UN Sustainable Development Goals within this process.

Keywords: Machine learning, Lifecycle analysis, Sustainability, Circularity, Energy efficiency, Carbon neutrality

Biography:

Dr. Noha Saleeb is Associate Professor in Creative Digital Technologies & Construction at Middlesex University, and Programme Leader for the MSc Building Information Modelling Management programmes at the university, providing consultation for both industry projects and organisations in sustainable design, construction, digital transformation, BIM, Digital Twins, AI and onsite project management. She is in advisory board of CIOB, BIM4Heritage, London Digital Twin Centre, as well as Director of BIMAfrica Report and Business Development Lead, and Editor-in-Chief of Smart Infrastructure and Construction Journal, with many contributions as Keynote Speaker and publications in the area of Sustainable Construction technologies such as Digital Twins and AI. She led multiple industrial and council funded grant projects, with over 100 journal, conference, industry and book chapter publications, and achieved several national/international awards for her expert work in the area of Sustainability, Digital Twins, Heritage, BIM and Construction Innovation.

3rd GLOBAL WEBINAR ON ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Dr. Minsang Yu

Autonomous A2Z, South Korea

Trends and Prospects for Commercialization of AVs

Abstract:

I analyzed why autonomous vehicles have been around for a decade and are still not commercially available. In particular, I analyzed the industry trends from a corporate perspective based on my experience at Hyundai Motor Company and autonomous startup. I would like to predict where the autonomous vehicle industry will go in the future and talk about the direction that the industry is actually focusing on from the perspective of a global policy trends.
Especially, autonomous vehicles are a paradigm-shifting new industry, which is closely linked to legislation. Therefore, I would like to predict the direction of the autonomous vehicle industry by focusing on the trends and policies of major countries' legislation. Since Korea is the third country in the world to enact Level 4 autonomous vehicle legislation, I think it is possible to predict the trend of the industry just by looking at the direction and purpose of the legislation.

In addition, the autonomous vehicle market is starting to focus on the B2B market, which is also closely related to the trend of enacting laws and regulations. By looking at these trends, we can find hints on how autonomous vehicle companies should set their business direction and how related industries should prepare for the future. Autonomous vehicles are one of the hottest industries in AI, and the future of our lives. In the midst of the biggest paradigm shift in 100 years, I've put together an analysis from an industry perspective to deliver practical and insightful trends.

Keywords: Autonomous vehicle, ADAS, Self-driving car, Vehicle regulation

Biography:

Dr. Minsang Yu is a chief strategy officer of Korean representative autonomous startup with 10+ years of researching experience in legislating technical policy and law to enhance vehicle safety with Korea government. Agile, result-oriented leader who make collaboration using interpersonal communication to obtain which 50+ patents related in autonomous vehicle and 10+ awards including the Korea Prime Minister's.

3rd GLOBAL WEBINAR ON ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Mr. Otman Nouinou

OS-Websolutions, Netherlands

Cognitive AI and Data: Shaping the Future of Human-Centric Smart Cities

Abstract:

This presentation explores the integration of artificial intelligence (AI), data science, and cognitive technologies in shaping the future of smart cities, transitioning from traditional urban designs to human-centric, cognitive cities. The research focuses on key questions: how can AI optimize urban infrastructure, and what differentiates cognitive cities from smart cities? By leveraging AI stages—from rule-based systems to context-aware and narrow domain AI—and incorporating real-time data, cognitive cities aim to acquire not just data, but actionable knowledge. The methodology includes examining case studies such as smart city project in Amsterdam, Tanger and Casablanca to show AI-driven systems enhance efficiency, sustainability, and citizen well-being. Additionally, this work discusses the challenges of integrating AI in urban settings, such as privacy concerns, data complexity, and maintaining cultural heritage. The results emphasize the importance of knowledge over mere data collection in cognitive city ecosystems, which are self-aware and responsive to dynamic demands. The conclusion highlights the role of interdisciplinary collaboration in future city planning, ensuring that AI-driven innovations remain ethical, secure, and centered on human needs. This talk offers actionable insights for professionals aiming to leverage AI for smarter, more adaptive urban environments.

Keywords: Cognitive Cities, Artificial Intelligence (AI), Data Science, Urban Infrastructure, Smart Cities, Human-Centric Design

Biography:

Mr. Otman Nouinou is a seasoned IT entrepreneur, AI expert, and data science leader with over 25 years of experience. He has founded multiple companies and spearheaded global AI and data science initiatives. Otman is passionate about integrating AI into business solutions and is an active speaker at international conferences on AI, digital transformation, and smart cities. He combines his deep technical expertise with a unique focus on psychology, enabling him to design human-centered AI solutions. Otman is also dedicated to coaching professionals to excel in the rapidly evolving tech landscape.

3rd GLOBAL WEBINAR ON ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Mr. Balaji Sundara

Composio.dev, USA

Importance of Tools for AI Agentic Methods

Abstract:

Agentic applications leverage leading AI frameworks (OpenAI, Claude, LangChain, LlamaIndex), for dynamically generating responses and actions. To accomplish tasks, these agents need a diverse set of tools with a clear purpose, to create advanced AI systems like autonomous software engineers, AI sales development representatives, and AI customer support. An AI Agent will often collaborate with humans in the loop, assisted by tools that can simplify authentication and authorization, letting developers focus on building powerful AI applications.

We will present Composio, an AI infrastructure platform that revolutionizes tool integration for LLMs and AI agents. Our SWE Kit achieves top performance on the SWE Bench and is perfect for internal automation or customer-facing AI products.

The speaker will present the importance of the Composio tools during this online seminar and will also show a short demo of the platform.

Keywords: AI, Agents, Tools, API

Biography:

Mr. Balaji Sundara is a Coach, advisor and senior product leader with over two decades of experience in building secure, resilient, and scalable enterprise platforms. Balaji has led several product organizations in his career including Cisco, Oracle, Dell-Boomi, BMC, and Axway. He was Senior Product Leader of Product Management at BMC Software where he led consolidation of service data with operational data for AIOPs. His expertise lies primarily in engaging with clients and laying the foundation for technological transitions. He is currently leading Composio towards its value proposition of AI Agentic systems with the use of LLMs, APIs/iPaaS, and RPA.

3rd GLOBAL WEBINAR ON ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Dr. Uma Mahesh R N

ATME College of Engineering, India

Deep Convolutional Neural Network (CNN) for threedimensional (3-D) objects classification using phase-only digital holographic information

Abstract:

A deep CNN-based binary classification of three-dimensional (3-D) objects for phase-only digital holographic information has been presented. The 3-D objects considered for the binary classification task are 'triangle-square', 'circle-square', 'square-triangle', and 'triangle-circle'. The 3-D object 'triangle-square' is considered for the TRUE class and the remaining 3-D objects 'circle-square', 'square-circle', and 'triangle-circle' are considered for the FALSE class. The 3-D object volume 'triangle-square' was constructed in such a way that the feature triangle was considered in the first plane and the feature square was considered in the second plane. Each plane is separated by various distances , and respectively. The remaining three 3-D objects were constructed similarly except that the different features were considered in the first and second planes respectively. The digital holograms of 3-D objects have been formed using the two-step phase-shifting digital holography (PSDH) technique and computationally post-processed to obtain phase-only digital holographic data. The phase-only image dataset was prepared by performing a rotation of on each phase image. Then the training of the deep CNN was performed on a phase-only image dataset consisting of 2880 images to produce the results. The results such as the loss and accuracy curves, confusion matrix, Receiver Operating Characteristic (ROC), and precision-recall characteristic are shown for the confirmation of the work. The classification of phase images implies the classification of 3-D objects using deep CNN.

Biography:

Dr. Uma Mahesh R N is an Assoc.Prof at ATME College of Engineering, Mysore, Karnataka, India. He has served as an Asst. Prof, Guest Lecturer, and lecturer for eight and half years. He has pursued his research in Vellore Institute of Technology (VIT) Chennai and also qualified UGC-NET Exam in Dec 2019. He obtained his master's degree in VLSI Design and Embedded Systems in 2012 and bachelor's degree, B E in Electronics and Communication Engineering from Visveswaraya Technological University (VTU), Karnataka, India in 2009. His current research interests are in the areas of digital holography, artificial intelligence, and machine learning.

3rd GLOBAL WEBINAR ON ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Erik Thomsen

Sensepoint, Inc, USA

Improving the Warranted Trust in AI-Driven Systems

Abstract:

Trained AI/ML algorithms have enabled the development of successful systems such as self-driving cars. And running these algorithms in reverse, so to speak, has given us Chat GBT and other LLMs. Yet, for all their power, AI/ML-driven systems can produce stunning mistakes that no intelligent person would ever make. A blanket can be classified as a person when surrounding a cell phone; a person may be unrecognized when jaywalking; random noise that is imperceptible to a human can be added to an image making it unrecognizable to a machine. And we all know about LLM-based "hallucinations". These kinds of mistakes make it difficult to fully trust the output of AI-driven systems. One of the reasons why humans are more trustworthy than their AI counterparts is that humans cross check their multiple senses. Do my eyes and ears agree there's a car coming down the road? Does the car I see moving accord with my understanding of what cars can do?Or is it moving so fast that it really can't be a car? In this talk we use introduce the concept of multi-channel reconciliation based on strongly typed composable ontologies as a principled means of improving the warranted trust in AI-driven systems. And we show what it takes to implement multi-channel reconciliation in an autonomous boat whose purpose is to gather specific knowledge about the world e.g., looking for the cause of a problem in a large industrial asset (e.g., of a leak in an underwater pipe), cataloging an ecosystem, or discovering the patterns of life in a harbor.

Keywords: Trust, Autonomous systems, Classification, Ontologies, Training

Biography:

Erik Thomsen has dedicated his career to addressing some of AI's toughest paradigm-level problems in Multi-dimensionality, Ontology, Adaptive AI and Logic. He is a world authority in multidimensional information systems, an internationally recognized expert in the application of logic to information systems, and a well-known paradigm-level innovator in Neuro-Symbolic AI and in ontologically grounded approaches to world modeling. He recently designed a neuro-symbolic controller to improve the performance of ML applications - selected as an exemplar of advanced AI algorithms by the DoD's Joint Center for AI (JAIC) and has won over $5 mm in gov't grants for the use of ontological grammars to solve tough AI problems.

3rd GLOBAL WEBINAR ON ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Prof. Francesco Iarlori

AI Transformation Strategist, Italy

How AI is Revolutionizing Creative Industries and Professions

Abstract:

AI is significantly transforming the creative process across various creative industries and professions by enabling new levels of efficiency, personalization, and innovation. While AI optimizes and augments creativity, it also raises questions about authorship and originality and the ethical implications of its use. However, rather than replacing human creativity, AI serves as a powerful collaborator, expanding the boundaries of what is possible in creative professions.

Biography:

Prof. Francesco Iarlori is a visionary and facilitator who has been at the forefront of driving digital transformation in organizations since the 1990s, leveraging extensive technological expertise. With nearly 30 years of global experience in sales, strategic planning, and business development, spanning various industries including major players in the global information technology, finance, media, and mobile operator sectors. Constantly driven by a passion for learning and sharing knowledge, always willing to adapt and educate. A skilled organizer and team player, renowned for identifying and capitalizing on emerging business opportunities. Possesses in-depth knowledge of potential new products and services, both from a business and technological perspective. Excels as an empathetic storyteller, captivating audiences in keynote speeches and academic institutions, instilling a hunger for knowledge that resonates with the essence of our world and its continual improvement. A visionary who constantly seeks metaphors and paradigms, exploring the depths of our existence. Passionate about the practical applications of science in our everyday lives, with a keen interest in music, arts, painting, and various forms of human expression. Offers valuable advisory services to investors and multinational companies venturing into new geographic markets, including Europe, the USA, and Africa. Actively collaborates with the United Nations in efforts to uplift developing countries. Additionally, holds roles as an independent journalist, sought-after keynote speaker at international events, columnist, and esteemed university lecturer.

3rd GLOBAL WEBINAR ON ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Ogidan Toluwaleke

Vuhosi, UK

Enhancing Stability in Machine Learning Model Explanations with S-LIME: A Case Study on RUL Prediction

Abstract:

Machine Learning (ML) helps with better decision-making within safety-critical domains, viz. aviation. Despite the proven effectiveness, the interpretability of their predictions remains a problem. The Local Interpretable Model-Agnostic Explanations (LIME) method aids in approximating a black-box ML model with a local, interpretable model to explain their predictions. However, LIME suffers from instability; its explanations can vary significantly for the same prediction due to randomness in the sampling process. Limiting its reliability in high-stakes applications. Addressing this limitation, this paper researches the Stable-LIME (S-LIME) to enhance the stability of explanations. As a case study, the work emphasizes predicting and interpreting aircraft engines' Remaining Useful Life (RUL). First, a gradient-boosting regression model was applied as a black-box ML model to predict the RULs. It has high accuracy but lacks interpretability of prediction. Next, LIME is applied iteratively to explain the predictions made by the model. A large variability in the output is brought to light by multiple runs, thus pointing out a problem inherent to this highly popular interpretability technique: instability. To circumvent this, this study presents a feature-weight aggregation for the first time, a new extension of LIME. The weights, computed per iteration, reflect the contribution of features for each sampled instance in the context of the model's prediction. To stabilize explanations, the feature weights are aggregated across iterations by summing the absolute values of the feature contributions and averaged by the number of iterations. This aggregation effectively smooths out the variability introduced by LIME's inherent randomness while maintaining the interpretability of the explanations.

In contrast to the literature, this research identifies and quantifies the instability of LIME in a real, safety-critical application and proposes a computationally efficient solution to improve the reliability of model explanations. The novelty of this study lies in the targeted stability enhancement of LIME without imposing substantial computational overhead. The findings are that S-LIME effectively suppresses the inconsistency of LIME's outputs, thus bringing reliable interpretability in situations where safety is paramount.

Biography:

Ogidan Toluwaleke is a Data Engineer, recognized for his expertise in data analytics, machine learning, and fostering youth empowerment through technology. Holding an MSc in Applied Data Science in Engineering with Distinction, Tolu has made significant contributions to advancing technology and supporting communities. He is the recipient of the prestigious Nelson Mandela Leadership Award of Excellence & Integrity and the West African Youth Role Model Award, honouring his impactful volunteer efforts and outstanding achievements in academia & career.

Miss. Milena Živković

University of Kragujevac, Serbia

A Deep Learning Approach to Tumor Segmentation and Adaptive Radiotherapy Planning: Methods and Evaluation

Abstract:

Radiotherapy stands as a cornerstone in cancer treatment, playing a crucial role in managing nearly half of all diagnosed cases. The process of radiotherapy planning requires extensive input from healthcare professionals, often amounting to hundreds of hours per patient. As the demand for radiotherapy continues to grow, the integration of artificial intelligence into radiation oncology emerges as a groundbreaking advancement. By addressing the complexities of this iterative and multidisciplinary process, AI has the potential to optimize workflows, reduce inconsistencies, and significantly improve treatment accuracy. This study explores the integration of AI algorithms, including convolutional neural networks and genetic algorithms, across key stages of the radiotherapy pathway. CNNs have shown exceptional performance in automatic tumor segmentation, eliminating variability introduced by manual contouring. Following this, simulation models calculate the interaction of radiation with tissues, enabling precise calculation of dose distributions. GA performs multi-objective optimization in treatment planning by executing numerous simulations with the goal of balancing therapeutic efficacy and minimizing risk to other organs. These methods collectively reduce manual workload and ensure precise, individualized treatment plans. The synergy of AI techniques, including GAs, enhances the ability to manage dynamic anatomical changes, offering personalized and efficient care. The findings highlight the potential of AI to enhance radiotherapy by improving efficiency and precision. This work underscores the importance of interdisciplinary collaboration in addressing challenges such as generalizability, ethical concerns, and the delivery of personalized therapy, contributing to the ongoing advancement of oncology care.

Keywords: Treatment planning, Workflow optimization, Tumor segmentation, Dose prediction

Biography:

Miss. Milena Živković is a highly accomplished academic excelling in physics and radiation science. Graduating with an exceptional 9.49 GPA during her undergraduate studies, she was consistently recognized as the top-performing student at the Faculty of Sciences and Mathematics for four consecutive years. Currently pursuing postgraduate studies specializing in physics, Milena maintains an impressive 9.67 average grade. Her dedication to advancing the field is evident through her extensive publication record and active involvement in research projects, including a Ministry of Education-funded project on "Experimental and Theoretical Research in Radiation Physics and Radioecology." Additionally, Milena serves as an editor for the journal "Imaging and Radiation Research" and contributes as a reviewer for "Radiation Science and Technology." As one of the authors of the monograph "Application of Monte Carlo programs and phantoms in Dosimetry", she showcases her expertise in dosimetry, further solidifying her reputation as a prominent figure in physics and radiation science.

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Dr. Venkata Duvvuri

Siriusmindshare LLC, USA

Lift And Shift Of Model Code Using Machine Learning Microservices With Generative AI Mapping Layer In Enterprise SaaS Applications

Abstract:

In traditional Software as a Service (SaaS) enterprise applications, there is a need for easy-to-do machine learning (ML) frameworks. Additionally, SaaS applications are closely related when they form an application suite, which brings forth the need for an ML framework that can facilitate the "lift and shift" of ML model code in similar needs in multiple enterprise applications in a suite. To add to this, some SaaS applications are still using legacy infrastructure (on-premise) mandating the need for an ML framework that is backward compatible with coexisting platforms, both cloud and legacy on-premise infrastructure. This study first demonstrated that in SaaS applications, microservices were important ingredients to deploying machine learning (ML) models successfully. In general, microservices can result in efficiencies in software service design, development, and delivery. As they become ubiquitous in the redesign of monolithic software, with the addition of machine learning, the traditional SaaS applications are also becoming increasingly intelligent. Next, the dissertation recommends a portable ML microservice framework Minerva (also known as contAIn—second generation), a Micro-services-based container framework for Applied Machine learning as an efficient way to modularize and deploy intelligent microservices in both traditional "legacy" SaaS application suite and cloud, especially in the enterprise domain.

Keywords: Machine learning, MLops, Gen AI

Biography:

Dr. Venkata Duvvuri is the Founder of Siriusmindshare, a AI apps research company and recently a Director of data science at Oracle corporation. He is results oriented data science, business, web & marketing analytics leader with over 12 years experience in Data science, Business Analytics, Digital Media Analytics and Web Marketing optimization with leading internationally recognized corporations, additional 10 years software engineering experience and a top business school MBA. He has experience in management of onshore and offshore teams as well as leadership experience ranging from Director to Manager at Fortune 100 companies including marketing agencies. He is a cross functional leader and subject matter expert in machine learning. He has improved ad performance to the tune of $10M at Unity Technologies & $7M at Oracle leveraging deep learning, spark MLIB and Tensorflow operating on big data. He has driven improvements in business & online marketing outcomes to the tunes of several million dollars at eBay (Triad Retail Media), Conversant (Alliance Data), AT&T (Cricket Wireless) and crunched several terabytes of data at Apple Corporation. He hold a Masters in Computer science from University of Massachusetts – Amherst and a MBA from University of California- Davis. Additionally, he has a doctorate at Purdue university. Finally, he serves on the advisory alumni board at Graduate school of Management at UC Davis.

3rd GLOBAL WEBINAR ON ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Miss. Bisola Kayode

Deloitte, UK

The State of AI-Driven Cybersecurity: Trends, Challenges, and Opportunities

Abstract:

Artificial Intelligence is rapidly transforming cybersecurity by enhancing threat detection, automating incident response, and refining defensive operations. Recent advances in machine learning, deep learning, and unsupervised methods enable real-time analysis of vast datasets, allowing systems to identify subtle indicators of compromise that traditional techniques might miss.

However, the integration of AI into cybersecurity presents several significant challenges. These include vulnerabilities to adversarial attacks, difficulties in interpreting complex models, and issues related to data quality and scalability. Such challenges can be exploited by malicious actors, underscoring the need for robust countermeasures and a balanced integration of automated and human-driven oversight.

The future holds vast potential for the development of dynamic, self-correcting security frameworks that harness federated learning techniques and bolster the interaction between human operators and technological systems. This talk provides a future-oriented strategy for research and practical applications aimed at strengthening cybersecurity systems to combat emerging threats effectively.

Biography:

Miss. Bisola Kayode is a results-driven cybersecurity professional with a robust portfolio of skills and experience in Incident Response, Security Operations Center (SOC) management, and Cyber Strategy & Transformation. As an AWS Solutions Architect, ISO 27001 Lead Implementer, and CISM-certified expert, Bisola has significantly impacted organizations such as Deloitte and Prudential Zenith Life Insurance. She has led initiatives to optimize software development life cycles for security integration, implement advanced threat modeling, and drive compliance with global security standards. Her work has consistently balanced robust security frameworks with practical business needs, enhancing organizational resilience against cyber threats. In addition to her professional accomplishments, Bisola is an active contributor to the cybersecurity community. She volunteers with the Young CISO Network and Borderless Tek sharing her expertise to inspire and mentor the next generation of cybersecurity professionals. Her publications on Web3 wallets and CI/CD pipelines further showcase her commitment to advancing knowledge in the field. Combining technical excellence with strategic foresight, Bisola is poised to offer valuable insights on the evolving cybersecurity landscape.

3rd GLOBAL WEBINAR ON ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Prof. Rodolfo Valacca

Medialife S.r.l , Italy

Revolutionizing Media: AI-Powered Voice Cloning and Face Swapping

Abstract:

This presentation explores recent advances in Artificial Intelligence (AI) and Data Science (DS) in AI generated audio (including voice cloning) and AI generated video (including face swapping). The presentation begins by providing some premises and definitions to frame what Generative AI is and how it "works" (e.g. LLM, deep learning) and to describe the main use cases in audio and video generation. In the first part, the impact of generative artificial intelligence on audio generation is analyzed. The focus is on voice cloning (opportunities, risks, applications) and highlighting best practices for properly managing AI-generated audios containing voice cloning. In the second part, the impact of generative artificial intelligence on video generation is analyzed. The focus is on face swapping (opportunities, risks, applications) and highlighting best practices to properly handle AI-generated videos containing face swapping. A summary is presented at the end of each module to reinforce learning of the key elements. The main purpose of this presentation is to illustrate advances in voice cloning and face swapping and to use them in a proficient and ethical way.

Keywords: Generative AI, LLM, Deep Learning, Prompt Engineering, Voice Cloning, Face Swapping.

Biography:

Prof. Rodolfo Valacca is a Management Engineer, Senior Manager specialized in digital innovation. Past University Professor (e.g. at the Polytechnic of Milan, University of Turin) and Author of Publications (e.g. International Journal of Electronic Business, Il Sole24 Ore). For some years he has been dealing with Generative AI. Trained in Artificial Intelligence at the Kellogg Business School of Chicago and MIT Sloan School of Management of Boston, He has worked in NLP, prompt engineering and AI-generated video.

3rd GLOBAL WEBINAR ON ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Samuel Akerele

Cybersecurity Analyst, Cyblack, UK

Modern Deep Learning Approaches for Malware Detection and Classification

Abstract:

The relentless evolution of malware has outpaced traditional detection methods, necessitating the development of advanced techniques to effectively detect and classify increasingly sophisticated threats. In this talk, we explore modern deep learning approaches for malware detection and classification, emphasising methods that integrate both automated feature learning and domain-specific insights. First, we review the limitations of signature-based and heuristic detection systems and then demonstrate how deep neural architectures, such as convolutional neural networks (CNNs), recurrent neural networks (RNNs) including long short-term memory (LSTM) models, and graph neural networks (GNNs), have been adapted to process diverse forms of malware data. These methods can extract hierarchical representations from raw binary files, API call sequences, and even image-based representations of executables, thereby enabling the robust identification of both known and zero-day malware variants.

Our discussion covers recent innovations in transfer learning and ensemble modelling that further enhance detection accuracy while reducing reliance on extensive manual feature engineering. We also address critical challenges, such as adversarial attacks on deep learning classifiers, trade-offs between detection performance and computational complexity, and issues of model interpretability. Through comprehensive empirical evaluations of benchmark malware datasets, we illustrate how these deep learning models outperform traditional machine learning techniques and provide scalable and adaptable solutions for real-world cybersecurity applications. Finally, we outline promising future research directions, including the integration of explainable AI techniques to improve model transparency, and the development of real-time detection systems that can operate effectively in resource-constrained environments.

Biography:

Samuel Akerele is a seasoned Cybersecurity professional and System Administrator with over 10 years of experience in Information Technology and education, I bring a unique blend of technical expertise and instructional skill to every project. Throughout my career, I have collaborated with diverse teams of IT professionals, driving innovation in learning environments through cutting-edge technologies and data-centric solutions. As a dedicated member of the Microsoft Community Contributor program and CyBlack CISCO Academy, I am committed to continuous professional development and sharing knowledge within the tech community. My experience spans system administration, network management, troubleshooting, and delivering technical training, making me an adaptable and resourceful IT professional.

3rd GLOBAL WEBINAR ON ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Dr. David Roldán Martínez

Valencia Polytechnic University, Spain

What Do Pepperoni Pizza and Autonomous AI Agents Have in Common?

Abstract:

We will examine the main pain points in customer interactions and data management. Next, we will explore what Autonomous AI Agents are and how they function. Then, we will discuss the evolution towards Multimodal AI Agents and how these advanced systems can enhance customer service. Finally, we will evaluate the benefits and challenges of implementing these technologies, demonstrating their potential to transform operations in a manner as straightforward and efficient as ordering your favorite pizza.

Keywords: Writing, Template, Sixth, Edition, Self-discipline, Good

Biography:

Dr. David Roldán Martínez is a seasoned expert in AI, APIs, and Smart Digital Ecosystems, with over 25 years of experience driving innovation and digital transformation across multiple industries. Holding a Ph.D. in Telecommunication Engineering, David bridges the gap between technology and business, enabling organizations to unlock new opportunities and solve complex challenges. A sought-after thought leader and speaker, he has authored over 30 books and contributed to numerous global conferences, sharing actionable insights on the transformative power of AI and its integration into smart ecosystems. David is passionate about fostering strategic leadership and delivering impactful solutions that empower businesses to thrive in dynamic environments.

3rd GLOBAL WEBINAR ON ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Miss. Shen Qing

Regal Rexnord, China

Barriers to Large-Scale AI Adoption in Modern Manufacturing and Six Strategies for Enhancing Human-AI Collaboration in the Future Manufacturing

Abstract:

Along with manufacturing industry adopting more and more robots and artificial intelligence in modern factories and warehouses, the tension between human and artificial intelligence also arouse. People criticize robots as 'cold blooded' when human operators cannot catch up with the speed of the machine and get exhausted, and 'dump' when it takes too much cost and lead-time to train a machine to inspect products online. Is Artificial Intelligence a good partner to collaborate with human operators in manufacturing or not? This thesis presents six explorations into the top challenges manufacturing industry has in applying AI today. In the first exploration, I evaluated the concerns about data security the companies have and introduced the concept of applying homomorphic encryption in manufacturing data management to protect data security. In the second, I explored a standardized local AI solution besides the production line to enable timely data-driven decision-making in repeated production activities. In the third, I analyzed the root causes for long machine training lead time and offered an unsupervised training framework to shorten the LT. In the fourth, I addressed the environmental challenges and provided a solution with integrated hardware and software design. In the fifth, I explored the opportunity to reduce the waste of computing power by leveraging new computing technology. In the six, I discussed the solution of cloud-based solution to meet the requirement from many diversified industries with different AI application needs. I close the thesis by considering the future of manufacturing and how AI can be further integrated.

Keywords: artificial intelligence, future of manufacturing, data security, real-time AI solution, integrate AI in hardware, reduce the waste of computing power, cloud-based AI solutions

Biography:

Miss. Shen Qing Currently studying Artificial Intelligence in Business at Oxford University, Graduated with an EMBA from CEIBS and was granted Direct PhD in Precision Instruments and Robotics. Former VP, GM and Global Strategy Consultant at Global Fortune 500 companies. Specialized in supporting manufacturing companies in profit improvement and digital transformation.

Lanre Shittu

Vuhosi, UK

The Future of Concrete Testing: Machine Learning Approach

Abstract:

Concrete appears to be the most commonly used construction material globally because of its strength and durability. On the contrary, the existing concrete testing approaches like destructive testing and empirical modelling are tedious, expensive and time consuming. But with the involvement of Artificial Intelligence (AI), we can analyse and improve the testing of essential concrete properties faster, more accurately, and at a lower cost. This study investigates the revolutionizing effect of Machine Learning in concrete assessment, underlining its benefits along with challenges and prospects. Various Machine Learning techniques that have been adopted to achieve high accuracy in predicting the properties of concrete are also considered in this paper. This includes durability assessment of concrete, predicting compressive strength of concrete, and image processing of non-destructive testing (NDT) of concrete. A lot has been achieved in the construction industry with the use of this technology. However, there are some challenges that exist around its applications such as the availability of data and its quality, high computational requirement and compliance with industry regulations. As a result of these limitations, future research can be directed towards a large standardized dataset, optimized algorithms that require low computational power and standardization aspects to meet regulatory requirements in the industry. A full transitioning to a data-driven approach will lead the construction industry to continue to prosper efficiently with sustainable and smart infrastructure developments.

Keywords: Concrete Testing, Machine Learning (ML), Compressive Strength, NonDestructive Testing (NDT), Artificial Intelligence (AI)

Biography:

Lanre is a skilled Civil Engineer with a distinguished academic background, holding an MSc in Applied Artificial Intelligence and Data Analytics (Distinction). His expertise now lies in harnessing the power of data to develop innovative, practical solutions that address real-world challenges. He is Passionate about technology and its potential to create positive change, Lanre is dedicated to advancing cutting-edge solutions while supporting and empowering communities.

Prof. Hind Lamharhar
INSEA, Morocco

Integrating Enterprise AI in Customs Administration: Balancing Privacy, Budget, andOptimization

Abstract:

Artificial Intelligence is revolutionizing how governments deliver public services, providing significant advancements in efficiency, transparency, and scalability. This presentation explores the integration of enterprise AI solutions within customs administration, highlighting key decision-making challenges in selecting the right AI tools and models, with a focus on balancing privacy, budget, and optimization. We begin by addressing the essential infrastructure requirements and capacity building needed for successful AI adoption. The core challenge of this journey lies in striking the right balance between cost-effective, lightweight solutions and the need to maintain stringent privacy standards, particularly in cloud-based environments. We will guide how to choose between optimized, low-budget solutions and more sophisticated, resourceintensive models, which could offer higher efficiency but at a higher cost. The presentation will focus on navigating these trade-offs: balancing the benefits of high-performance AI models with the constraints of budget and the necessity of privacy protection. We will explore methodologies for selecting AI frameworks and tools that meet these competing requirements while still ensuring optimal performance for real-world applications in customs administration. Furthermore, we will discuss the integration of advanced AI techniques, such as machine learning (ML), deep learning (DL), and large language models (LLMs), and how to ensure data governance that meets regulatory standards. Practical use cases such as fraud detection, risk management, and optimization of operations will be highlighted to demonstrate how these choices impact the success of AI deployment in public sector projects. This presentation is designed to provide actionable insights for policymakers and technologists, offering guidance on how to navigate the complex landscape of AI tool selection, where privacy, budget, and efficiency considerations are paramount in delivering effective government solutions.

Keywords: Enterprise AI, Privacy, Data Governance, Machine Learning, Deep Learning, Public Sector Innovation, large language models

Biography:

Prof. Hind Lamharhar is a professor of Artificial Intelligence (AI) specializing in knowledge-based systems (KB), machine learning (ML), deep learning (DL), natural language processing (NLP), and large language models (LLMs). With over two decades of experience spanning higher education and industry, she has developed robust theoretical and practical expertise. She has coadvised doctorate students and taught diverse profiles, including master's and engineering graduates, at renowned institutions such as INSEA (Institute of Statistics and Applied Economics), HighTech (School of Engineering and Management), Mohammadia School of Engineering, and Mohamed V University. Her teaching combines traditional, online, and hybrid methods, often with custom-designed course materials. As a senior data and NLP engineer at Morocco's Ministry of Economy and Finance, Hind drives AI initiatives in fraud detection, business intelligence, data analytics, and MLOps (Machine Learning Operations). She develops and deploys advanced ML, DL, NLP, and LLM models to enhance fraud detection in customs declarations. Hind plays a pivotal role in the Decision Support System team, contributing to projects in risk management, selectivity, foreign trade, and customs economic regimes. She oversees the full data pipeline, from extraction and preprocessing to model deployment and production monitoring, delivering actionable insights for decision-making. Her unique blend of academic and industry expertise enhances her teaching and research, equipping students with hands-on AI and (ML/LLM)Ops skills. Recognized for her innovative contributions, Hind's work has been featured in publications, conferences, and applied AI projects, establishing her as a leader in AI education and implementation.

3rd GLOBAL WEBINAR ON ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Dr. Deshinta Arrova Dewi

INTI International University, Malaysia

Revolutionizing Agriculture: AI-Driven Intelligent Fruit Selection and Grading in the New Era of Data Science

Abstract:

Manual fruit selection and grading in agriculture face significant challenges due to the time-consuming nature of the process and the variability introduced by subjective human judgment. These limitations call for an automated, efficient, and consistent solution to improve grading accuracy and speed. This study proposes an intelligent fruit selection and grading system, integrating computer vision and artificial intelligence (AI) technologies. By utilizing high-resolution imaging and advanced feature extraction techniques, the system aims to streamline the grading and sorting process while ensuring non-destructive testing that preserves fruit quality.

The proposed solution is a cost-effective, vision-based system for fruits such as apples, bananas, and oranges, tailored to meet specific agricultural needs. The system's workflow involves several phases of feature extraction, including grayscale processing, binarization, and enhancement techniques. Grayscale processing simplifies the image analysis by converting images into shades of gray, reducing complexity while retaining crucial intensity information. Binarization further isolates the fruits from their backgrounds, facilitating the extraction of key features for accurate classification. Enhancement techniques sharpen these features, improving the system's ability to distinguish subtle details critical for grading.

Among the feature extraction methods tested, the Edge Pixel technique demonstrated superior performance across different fruit types and grades, significantly outperforming other methods. For instance, the Edge Pixel method achieved 79.20% accuracy in grading various fruit labels and 80.32% accuracy in specific grading types. In comparison, the Grayscale Pixel method achieved 93.94% accuracy in identifying fruit types. The Edge Pixel method excelled in capturing essential shape and edge details, making it particularly effective for distinguishing between similar fruit classes, which traditional methods struggle to achieve.

Keywords: automatic fresh fruit selection, grading, CNN, deep learning, process innovation, product innovation

Biography:

Dr. Deshinta Arrova Dewi is an accomplished academic and researcher specializing in data science, artificial intelligence, and machine learning. She has extensive experience in applying AI to various fields, particularly in predictive analytics and intelligent systems. With a passion for advancing technology, Deshinta has contributed to numerous publications and collaborative projects, bridging the gap between AI theory and practical applications. As an educator, she is dedicated to mentoring the next generation of innovators, inspiring students through her expertise and hands-on teaching approach. Deshinta continues to drive research that has a significant impact on both academia and industry.

3rd GLOBAL WEBINAR ON ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Dr. Shakira Ghazanfar

NARC, Pakistan

Machine Learning in Selection of Probiotic Yeast for Personalized Gut health management

Abstract:

Probiotic yeasts (Saccharomyces cervices) selection is very hard and time consuming process for making and novel probiotic product like dairy item. But, now days, artificial intelligence (AI) can easily be used to isolate unique probiotic yeast strain for preparation of the any nutritious bakery items. Probiotic yeasts, such as Saccharomyces cervices, offer unique benefits (enhanced gut barrier function, antimicrobial activity, and modulation of the immune system). But, identifying yeast strains Saccharomyces services stylish to separate microbiome conformations remnants puzzling. This study explains the AI-based methodologies for the precise selection of probiotic yeasts by using AI tools. Machine learning algorithms were employed to predict probiotic potential (stress tolerance, and host compatibility), while computational simulations were used to evaluate Saccharomyces cervices-host interactions. The results showed that AI based methods noticeably develop the selection method of Saccharomyces cervices probiotic yeast, facilitating the development of personalized feeding. By leveraging large yeast genome datasets and predictive ML models, the study highlights the potential of AI in reducing experimental costs, fast-tracking discovery, and improving GIT tract microbiome mediations. Our research findings highlight the interaction between artificial intelligence and microbiota research, contribution in innovative solutions for personalized gut health management. AI tools improve the selection process of the unique yeast strains helps to improve the probiotics product preparation as well as broader goal of precision nutrition and healthcare.

Keywords: AI, Gut microbiota, Probiotic, Yeast Gut management

Biography:

Dr. Shakira Ghazanfar a Senior Scientific Officer at PARC under the Ministry of National Food Security and Research, Islamabad, Pakistan, brings over 20 years of R&D expertise in microbiology and gut health. With a PhD in Microbiology, she is a pioneer in applying AI to probiotics, postbiotics, antimicrobial resistance (AMR), and gut microbiome studies. Her scholarly contributions include an H-index of 24, I-index of 46, with over 300 cumulative impact factor publications and books published by CRC Press and Springer Nature. Holder of patents, copyrights, and design certificates in Pakistan and the UK, she seeks global collaborations and innovative AI challenges.

3rd GLOBAL WEBINAR ON ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Mr. Michael Glaros

Artemis Industries, Cyprus

Define and Prioritize High Impact GenAI Use Cases

Abstract:

Inconsistent and poorly structured use case definitions hinder the evaluation and prioritization of generative AI opportunities, making it difficult to identify high-impact areas for investment and disruption. This presentation proposes that effective AI adoption begins with selecting the right use case through a well-informed, structured analysis, focusing on strategic opportunity and execution potential. We will explore the elements of use case definition, starting with strategic opportunity variables: identifying the business problem, proposing a solution, aligning with strategic business objectives, measuring success through key results, and ensuring accountability with a solution sponsor. Additionally, we will discuss execution potential variables, including business value, user experience desirability, and technological feasibility. The goal is not to pick the most elegant idea but to highlight learning potential. Attendees will be inspired to rate the strategic opportunity by evaluating the solution champion's pitch and assess the execution potential by considering business, user experience, and technology needs. Finally, we will measure the use case against other ideas by plotting the strategic opportunity score and the average of the execution potential scores, enabling a stack ranking of ideas. This structured approach aims to streamline the identification and prioritization of generative AI opportunities, fostering more effective and impactful AI investments.

Keywords: AI, Gut microbiota, Probiotic, Yeast Gut management

Biography:

Mr. Michael Glaros is Founder of Artemis Industries and a recognized leader in information security, enterprise blockchain, and AI solutions. Known for his innovative approach and collaborative style, Michael has been instrumental in developing strategies that enhance security, compliance, and operational efficiency, driving significant advancements in his field. At Microsoft for a decade, Michael served as Principal Program Manager with the Microsoft Cloud Industry AI team. He initiated a customer success program that fostered generative AI solution incubations for over 300 enterprise customers, ISVs, and SI partners, with 50+ launching as commercial products on the Azure Marketplace.

3rd GLOBAL WEBINAR ON ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Pablo Nastar

Chappygo, France

Ensuring AI Alignment: Balancing Technological Advancement with Human-Centric Goals

Abstract:

The alignment of Artificial Intelligence systems with human intentions and ethical standards is one of the critical challenges of our technological era. While AI offers transformative solutions for businesses and society, ensuring that these systems operate in alignment with human values requires intentional design, governance, and continuous evaluation. This presentation explores the multifaceted approaches to AI alignment, emphasizing real-world business applications and ethical considerations.

The discussion begins with the current landscape of AI deployment, outlining common misalignments where systems fail to meet user or organizational objectives. It will then highlight frameworks for achieving alignment, including goal-based design, interpretability, and reinforcement learning from human feedback (RLHF). Case studies of AI solutions implemented in SMEs and professional sectors (e.g., architecture and consulting) demonstrate how alignment principles enhance efficiency, profitability, and trust.

As both an AI developer and educator, I will share insights into balancing innovation with responsible implementation, showing how organizations can integrate AI while addressing risks such as bias, safety concerns, and operational failures. Finally, the session will propose actionable guidelines for businesses seeking to deploy AI tools that are both technically sound and ethically aligned.

By bridging the gap between technological capability and practical human needs, this presentation provides a roadmap for aligning AI systems with clear, measurable goals—turning complexity into simple, impactful results.

Keywords: AI alignment, ethical AI, goal-based design, human-centric AI, RLHF, AI implementation

Biography:

Pablo Nastar is an AI Solutions Architect and Trainer with over 15 years of experience in technology and 7 years dedicated to AI solutions. As the founder of ChappyGo IA Services in Toulouse, he specializes in developing and implementing AI systems for businesses, helping them optimize workflows and enhance profitability. Through consulting and tailored training programs, Pablo combines technical expertise with a didactic approach to ensure that clients succeed with AI solutions.

3rd GLOBAL WEBINAR ON ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Mr. Douglas Amante

WMLL Inc., Philippines

Adapting AI for Personalized Learning: Unlocking Potential Through Flexibility and Inclusivity

Abstract:

The fast advancement of AI in education creates unprecedented benefits, but it also poses considerable obstacles. A main focus is on obtaining individualized customisation through flexible adaptation to accommodate various learning methods and individual variations. This session delves into the crucial goal of improving AI flexibility in order to design systems that respond to individual learner demands. AI may enable tailored learning experiences that drive engagement, inclusion, and better outcomes by harnessing Artificial General Intelligence and combining principles from many intelligences—spanning emotional, social, attentional, and moral-ethical dimensions. Attendees will explore how sophisticated AI companions, endowed with creative, responsible decision-making and meta-learning skills, may transform education, paving the way for a more inclusive and empowering future for learners from all backgrounds.

Keywords: Personalized Learning, Flexible Adaptation, Artificial General Intelligence, Multiple Intelligences, Inclusivity, Meta-Learning

Biography:

Mr. Douglas Amante is a prominent artificial intelligence expert who has made interesting contributions to the area. His critical participation in the design and implementation of Sophia's robot discourse system at SingularityNet has greatly enhanced robotic communication. Dr. Amante's experience in complicated algorithms has improved Sophia's interactive capabilities, representing a significant milestone in AI-driven conversation systems. He is passionate about the convergence of technology and societal effect, emphasizing the need of long-term and individualized digital experiences in today's environment. Dr. Amante, who has vast expertise in the APAC, EMEA, and LATAM market, is currently concentrating on how Artificial General Intelligence might improve education. His work continues to promote innovation by connecting cutting-edge technology to global needs in education and beyond.

3rd GLOBAL WEBINAR ON ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Dr. Rami Ayoob

Spark Information Technology, Bahrain

The Role of AI in Digital Transformation

Abstract:

As digital transformation continues to reshape industries and organizations, artificial intelligence (AI) is playing a key role in driving this change. AI technologies are being increasingly integrated into business processes, enabling automation, improving efficiency, and enhancing decision-making capabilities. This abstract explores the importance of AI in digital transformation, highlighting its impact on various aspects such as customer experience, operational efficiency, and data analytics. The adoption of AI has the potential to revolutionize how companies operate, adapt to changing market trends, and stay competitive in today's rapidly evolving digital landscape. By harnessing the power of AI technologies, organizations can unlock new opportunities for growth, innovation, and sustainable success in the digital age. AI plays a crucial role in driving digital transformation in various industries by enhancing decision-making, automating processes, and improving customer experiences. Some key roles of AI in digital transformation include: Data analysis: AI algorithms can analyze large amounts of data quickly and accurately, providing insights and trends that can help businesses make informed decisions. Automation: AI-powered systems can automate repetitive tasks and workflows, increasing efficiency and allowing employees to focus on more strategic activities. Personalization: AI technologies can analyze customer behavior and preferences to deliver personalized experiences, recommendations, and interactions. Predictive analytics: AI can use historical data and advanced algorithms to predict future trends, behaviors, and outcomes, helping businesses proactively plan and adapt to changing market conditions. Process optimization: AI can optimize business processes by identifying inefficiencies, suggesting improvements, and streamlining operations for better performance and cost savings. Enhanced customer experiences: AI-driven chatbots, virtual assistants, and personalized recommendations can improve customer satisfaction, engagement, and retention. Risk management: AI can analyze data patterns and detect potential risks or security threats, enabling businesses to mitigate issues before they escalate. Overall, AI is a powerful tool in driving digital transformation by enabling businesses to adapt to the fast-paced, data-driven, and customer-centric landscape of the digital age. Its ability to analyze data, automate processes, and personalize experiences can help organizations stay competitive, agile, and innovative in an ever-evolving market.

Biography:

Dr. Rami Ayoob is an innovative and result-oriented professional with over 18+ years of executive-level experience and responsible for all aspects of strategic Technology planning and achievement of Enterprise goals. He is a CEO of Spark Information Technology, a technology focused on developing innovative solutions to tackle modern business challenges. With years of experience in the technology industry, have a proven track record of leading successful projects and teams. As a dynamic and forward-thinking leader, He has embraced the latest technological advancements, such as Artificial Intelligence and Machine Learning, to drive innovation and productivity in my organization. He is also Founder of Astro Tech Hub, to conduct research into various aspects of the universe. This involve designing and carrying out experiments, analyzing data, and publishing research papers, development of theoretical models to explain the behavior of celestial objects and phenomena. This may involve using mathematical equations to simulate different scenarios and predict outcomes.

3rd GLOBAL WEBINAR ON
ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Victor Oriakhi Nosakhare

University of Salford, Manchester, UK

Optimizing Embedded Hardware Design for IoT and AI Applications

Abstract:

Embedded hardware design is critical for optimizing Internet of Things (IoT) and Artificial Intelligence (AI) applications, ensuring seamless integration, real-time performance, and energy efficiency. This research investigates the role of embedded systems in supporting IoT and AI technologies, focusing on the challenges and solutions in hardware design. The study explores the importance of energy-efficient microcontrollers, AI accelerators, and sensor networks that enable real-time data processing at the edge. Methodologies include a comparative analysis of hardware optimization techniques such as low-power consumption, scalability, and the integration of AI algorithms into hardware systems for faster decision-making. Key results demonstrate improved performance, such as a 40% reduction in latency and a 25% increase in power efficiency through hardware-software co-design approaches. The research concludes that optimizing hardware for IoT and AI applications is essential for enabling smarter, more efficient devices across industries, including healthcare, transportation, and smart cities. This work provides valuable insights into future trends in hardware design and its role in empowering the next generation of connected, intelligent systems.

Keywords: Embedded systems, IoT, AI, hardware design, energy efficiency, AI accelerators

Biography:

Victor Oriakhi Nosakhare is a Hardware Design Engineer specializing in IoT, AI-driven technologies, and advanced digital systems. With a background in Electrical and Electronics Engineering and a Master's in Robotics and Automation, he integrates AI and machine learning into intelligent hardware solutions. His work spans critical sectors, including oil, gas, and electricity distribution. Victor is also a researcher with published work on AI, cybersecurity, and IoT, and a peer reviewer for IGI Global and JAIR. Additionally, he mentors aspiring engineers and serves as Project Manager at BeScience STEM, promoting STEM accessibility to youth.

3rd GLOBAL WEBINAR ON ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Miss. MaryRose Cleere

Big Data Specialist, Ireland

NLP in Healthcare: A Revolutionizing Force

Abstract:

Natural Language Processing (NLP) has emerged as a transformative technology in the healthcare domain, revolutionizing the way medical data is processed, analyzed, and utilized. By leveraging NLP techniques, healthcare organizations can extract valuable insights from vast amounts of unstructured text data, such as electronic health records (EHRs), clinical notes, medical literature, and patient-generated content. This work seeks to examine some of the key applications of NLP in healthcare, one of which is the extraction of clinical information from EHRs. By automatically identifying and extracting relevant data points, NLP can streamline clinical workflows, improve diagnostic accuracy, and facilitate decision-making. Additionally, NLP can be used to analyze medical literature to identify emerging trends, discover new drug interactions, and support evidence-based medicine. Another promising application of NLP is in the field of patient engagement and communication. NLP-powered chatbots and virtual assistants can provide patients with personalized information, answer their questions, and even schedule appointments. Furthermore, NLP can be used to analyze patient-generated content, such as social media posts or online reviews, to gain insights into patient experiences and identify areas for improvement. However, the adoption of NLP in healthcare is not without its challenges. Issues such as data privacy, interoperability, and the need for specialized domain knowledge can hinder the widespread implementation of NLP solutions. Nevertheless, as NLP technology continues to advance, it is poised to play a critical role in improving patient outcomes, enhancing healthcare efficiency, and driving innovation in the medical field.

Biography:

Miss. MaryRose Cleere is a seasoned data strategist with a unique blend of experience in Big Data, Knowledge Management, and international affairs. Her passion lies in leveraging data and analytics to solve complex challenges and unlock value for diverse organizations and global initiatives. Her multifaceted career path demonstrates a commitment to and a willingness to tackle challenges across sectors. Over seven years of experience as a Big Data Specialist and Knowledge Management Specialist, she has honed her skills in data analysis, cloud technologies (AWS, Kubernetes), and knowledge capture for informed Decision-making & Global Leadership. She holds an EMBA from Quantic School of Business and Technology and a certificate in Big Data and Social Analytics from MIT. Additionally, she possesses a diverse range of certifications in areas like project management, International law, leadership, and fashion design, showcasing her experienced skillset. Looking to the future, She is committed to using her expertise in data, knowledge management, and international affairs to tackle the world's most pressing challenges.

3rd GLOBAL WEBINAR ON ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Dan Figueiredo

AI Architect @ Microsoft

The Journey and Future of Artificial Intelligence

Abstract:

The evolution of Artificial Intelligence (AI) from its nascent stages to its current state of sophistication is nothing short of remarkable. This talk, titled "From Inception to Innovation: The Journey and Future of Artificial Intelligence," will explore the historical milestones and technological advancements that have shaped AI into the transformative force it is today. Beginning with a retrospective on the foundational theories and early applications, the discussion will transition to contemporary breakthroughs that illustrate the dynamic capabilities of AI in various sectors. As organizations worldwide rush to integrate AI into their operations, the journey has not been without its challenges. This talk will critically examine the pitfalls encountered along the path of organizational adoption, from data privacy concerns to the complexities of algorithmic bias and ethical dilemmas. We will delve into case studies highlighting both successful implementations and cautionary tales, providing a balanced perspective on the hurdles faced by enterprises. Furthermore, this presentation will distill key lessons learned from these experiences, offering pragmatic insights and strategies to navigate the intricate landscape of AI adoption. By addressing these lessons, organizations can better position themselves to harness AI's full potential while mitigating risks. Looking ahead, we will explore the visionary prospects and emerging trends poised to redefine the future of AI. From advanced machine learning techniques to the potentials of quantum computing, the horizon of AI innovation promises to unlock unprecedented opportunities. Join us as we embark on an intellectual journey through the past, present, and future of AI, equipped with the knowledge to steer clear of pitfalls and leverage AI's transformative power for organizational success.

Keywords: AI, Evolution, past, present, future, innovation

Biography:

Dan Figueiredo is an AI strategist at Microsoft with over 20 years of experience in driving technology-enabled business transformation. Passionate about data, AI, and innovation, I lead global partner capacity development to empower Microsoft partners in building differentiated Cloud solutions. I collaborate with the Technology Community for Racial Equality (TC4RE) to champion diversity and inclusion in tech. I hold an Executive MBA and a BSc in Cognitive Science. As a Senior Judge at the Management Consultancies Association, I support excellence in consulting and am committed to creating sustainable, interconnected solutions for a rapidly evolving technological landscape.

3rd GLOBAL WEBINAR ON ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Dr. Anas Bilal

College of Information Science & Technology, China

Are We Too Dependent on Medical Imaging? Role of AI in Medical Imaging

Abstract:

Medical imaging has become a cornerstone in the diagnosis, treatment, and monitoring of numerous medical conditions, offering unprecedented insights that drive patient care. However, with advancements in technology, a growing dependence on medical imaging has led to concerns about potential overuse. This reliance can result in unnecessary scans, heightened patient anxiety, increased healthcare costs, and strain on already limited resources. Striking a balance between essential and excessive imaging has become crucial to prevent both patient and system burden. In this context, artificial intelligence (AI) emerges as a powerful tool to support more judicious use of medical imaging. AI algorithms can enhance diagnostic accuracy, prioritize imaging needs based on clinical urgency, and streamline workflow efficiency, making it possible to optimize imaging utilization. Furthermore, AI-driven tools have the potential to improve predictive capabilities, offering clinicians valuable guidance in decision-making and ensuring that each imaging procedure serves a definitive purpose in patient care. This talk examines the evolving role of AI in reshaping medical imaging practices, proposing a framework where technology enhances rather than overwhelms healthcare systems. By harnessing the strengths of AI, we can maintain the essential benefits of medical imaging while mitigating risks, reducing unnecessary procedures, and preserving critical resources for when they are most needed.

Keywords: Medical imaging, Artificial intelligence (AI), Imaging overuse, Resource optimization, Patient care

Biography:

Dr. Anas Bilal is an accomplished scholar and innovator in AI, computer vision, and medical imaging. With a B.S. from Iqra University, Pakistan, an M.S. from the University of Lahore, and a Ph.D. from Beijing University of Technology, he now serves as associate Professor at Hainan Normal University, China. Dr. Bilal has published over 50 articles in esteemed journals and is recognized for pioneering techniques in image processing and remote sensing. As a Senior Member of IEEE, he holds multiple editorial roles and has significantly contributed to international conferences, embodying leadership and innovation in advancing technology and engineering.

3rd GLOBAL WEBINAR ON ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Dr. Thangavel Murugan

College of Information Technology, UAE

Information Security - AI Advancements

Abstract:

Artificial intelligence (AI) advancements have revolutionized the field of information security, presenting both opportunities and challenges for cybersecurity professionals. This research seminar will delve into the latest developments in AI technologies and their applications in enhancing information security measures. By examining the current landscape of AI advancements in information security, this seminar aims to foster a better understanding of the opportunities and risks associated with AI technologies in safeguarding digital assets and sensitive information. The seminar will explore case studies of AI-driven security implementations across various industries, showcasing how these technologies have bolstered defense mechanisms against sophisticated cyber-attacks. Additionally, discussions will focus on the ethical implications of AI in information security, addressing concerns surrounding privacy, bias, and algorithm transparency. Attendees will gain valuable insights into the current landscape of AI in information security, understanding the potential benefits and challenges associated with integrating these technologies into existing security frameworks.

Keywords: AI, Information Security, Cryptography, Attacks, Countermeasures, AI Security

Biography:

Dr. Thangavel Murugan (Senior Member, IEEE) received the Ph.D. from Madras Institute of Technology (MIT) Campus, Anna University, Chennai. He is an Assistant Professor at the Department of Information Systems and Security, College of Information Technology, United Arab Emirates University. He has 11 years of teaching and research experience from various academic institutions. He has published more than ten articles in international journals, more than 15 book chapters in international publishers, more than 25 in international conferences, and three in national conferences/seminars. His research interests include information security, high-performance computing, ethical hacking, cyber forensics, blockchain, cybersecurity intelligence, and educational technology.

Fahad ibne Masood

Modern College of Business & Science, Muscat, Oman

Advanced Air Mobility (AAM): Urban Air Traffic Management (UATM) and AI-Driven Traffic Management

Abstract:

Artificial intelligence (AI) advancements have revolutionized the field of information security, presenting both opportunities and challenges for cybersecurity professionals. This research seminar will delve into the latest developments in AI technologies and their applications in enhancing information security measures. By examining the current landscape of AI advancements in information security, this seminar aims to foster a better understanding of the opportunities and risks associated with AI technologies in safeguarding digital assets and sensitive information. The seminar will explore case studies of AI-driven security implementations across various industries, showcasing how these technologies have bolstered defense mechanisms against sophisticated cyber-attacks. Additionally, discussions will focus on the ethical implications of AI in information security, addressing concerns surrounding privacy, bias, and algorithm transparency. Attendees will gain valuable insights into the current landscape of AI in information security, understanding the potential benefits and challenges associated with integrating these technologies into existing security frameworks.

Keywords: AI, Urban Air Traffic Management, Advanced Air Mobility, Safety, Security, Efficiency

Biography:

Fahad ibne Masood in the aviation world, Capt. Fahad Ibne Masood MRAeS, IOSH is distinguished as a remarkable aviation professional with over 25 years of expertise in domains of management and safety of aviation operations and advanced air mobility. At UCAM Spain where he is a doctoral student in Aviation Management Studies and also a faculty at MCBS. He has recommended research works in AI Based aviation risk management and urban air mobility. He has published 50 articles plus and has given presentations in a number of international conferences. His success as an industry leader is the result of his innovative solutions in aviation predictive risk management and AI.

3rd GLOBAL WEBINAR ON
ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Dr. Nasrullah Khan Khilji
University of West London, UK

The Challenges of Digital Transforma2on in Project Management using AI and Data Science

Abstract:

In today's fast-paced evolving business world, project management is more critical than ever. The success of any business corporation commonly depends on its ability to execute projects efficiently. To stay ahead in the race, many organisations are embracing digital technologies to transform their Project Management Practices. However, the impact of digital transformation and disruptive technologies encounter businesses with various challenges today due to the disruptive use of AI, Robotics, IoT, Data Science, and Big Data Analytics. This research study investigates the challenges, opportunities, and a steady approach to reformation from traditional to technologically innovative project management practices supported by AI and data science. As business organisations are increasingly relying on AI-based project management practices to execute deliverables in realisation of their project end benefits. Through an examination of existing literature, case studies, and theoretical frameworks, this study investigates the potential benefits, challenges, and implications of incorporating AI and data science technologies in project management. This research study aims to provide insights into how technological innovation such as AI and Data Science could enhance project management practices including planning, scheduling, resource allocation, risk management, and stakeholder communication. The study key outcomes demonstrate core areas where AI has the potential to enhance experts' decisions and to testify the role of digital transformation within the project management domain. Additionally, the study investigates the core challenges and consolidated strategies associated with the adoption of AI and Data Science in project management. By analysing real-world applications and theoretical perspectives, this research contributes to the understanding of how AI and Data Science could be effectively applied to streamline project management practices and drive business enterprises success in diverse sectors across the board.

Keywords: Project Management, Digital Transformation, Artificial Inelligence, Data Science, Technological Innovation

Biography:

Dr. Nasrullah Khan Khilji has extensive expertise and substantial experience in organisational strategies and systems, project and operations management, knowledge management, management information system, digital technologies and innovation, international business management, team dynamics and leadership, strategic portfolio management in a variety of settings both in UK and from abroad. Dr Khilji is currently working at the School of Computing and Engineering, University of West London as an Associate Professor in Applied Project Management and to lead portfolio of academic partnerships (UK and TNE) and to chair the research group for Information Systems and Knowledge Management.

3rd GLOBAL WEBINAR ON ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Mr. Halidu Abdulai

Åbo Akademi University, Turku, Finland

The Health Tech Industry and Synergies between AI, Wearables, and Gamification

Abstract:

The integration of artificial intelligence (AI), wearable devices, and gamification is revolutionizing the health tech industry by enhancing patient engagement, preventive care, and personalized healthcare. There has been a great interest among researcher investigating how these technologies, when combined, can drive behavioral change and improve health outcomes. AI-powered analytics enable wearables to provide real-time, personalized insights, while gamification motivates users by turning health goals into interactive challenges. Key applications include chronic disease management, fitness tracking, and mental health support, where gamified feedback loops encourage adherence to treatment and healthier lifestyles. The methodology involves a review of current implementations and outcomes, revealing that these synergies improve user engagement and early detection of health issues. Challenges, such as data privacy and accessibility, are also explored, emphasizing the need for ethical frameworks and inclusive design. Collaboration between AI, wearables, and gamification has the potential to make healthcare more proactive and accessible, fostering better individual and population health outcomes through sustained engagement and innovation.

Keywords: Artificial intelligence, Wearables, Gamification, Healthcare

Biography:

Mr. Halidu Abdulai is a distinguished Erasmus Mundus scholar enrolled in the dual-degree master's program on the Engineering of Data-Intensive Intelligent Software Systems (EDISS). Mr. Abdulai specializes in intelligent systems, computer vision, and data science. He earned his bachelor's degree in computer engineering from Karadeniz Technical University, Turkey, and has conducted extensive research in Machine Learning, Software Engineering, and AI applications in healthcare. His interests also include cloud computing, intelligent software systems, cryptography, and sustainable technology.

3rd GLOBAL WEBINAR ON ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Orland Pomares Latorre

AMES Group Sintering, S.A., Barcelona, Spain

AIGovernance (ISO/IEC38507) and AIManagement (ISO/IEC27001). AIGovernance Platforms.

Abstract:

The conference/webinar will be based on a study that delves into the design and implementation of AIGovernance Platforms, assessing their effectiveness in AI project management and compliance with international standards. Using a methodological approach combining qualitative and quantitative analysis, governance models were compared in various business scenarios. The results reveal that well-structured platforms significantly improve risk management and operational transparency. In addition, a comprehensive review of the ISO38507 and ISO27001 standards is conducted, identifying the essential elements that AI governance platforms must incorporate to meet these standards, as well as the importance of their effective combination in delivering value to the organization (key concept - management without governance does not deliver value). This analysis provides a solid foundation for the effective implementation of AI governance practices, the desirable construction of an AIGovernance Platform and the main indicators for effective management, highlighting the advantages of its application and proposing a normative framework for its evaluation and continuous improvement.

Keywords: AI, Business, Governance, Management, Risk, Value, Best Practices.

Biography:

Orland Pomares Latorre is an experienced professional specialized in the international implementation of industry solutions, with a proven track record as an effective key account manager and in business process optimization. His academic background covers business intelligence, data analytics and artificial intelligence, complemented by certifications in ISO/IEC 38507, which provides guidance on the governance implications of organizations' use of artificial intelligence and ISO/IEC 27001, the international standard for information security management systems. Throughout his career, he has led projects to improve operational efficiency, customer relationships and business value, demonstrating an exceptional ability to tailor technology solutions to the specific needs of diverse customers and markets.

3rd GLOBAL WEBINAR ON ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Dr. Mansoor Hayat

University of Manitoba, Canada

Generative AI: Shaping the Future of Medical Imaging Analysis

Abstract:

Medical imaging is essential for accurate diagnosis and effective treatment planning, yet it faces limitations like low resolution, high costs, and the need for vast labeled datasets to train diagnostic models. These issues hinder the delivery of high-quality, real-time, and personalized healthcare. To address these challenges, we propose utilizing generative AI models, such as Generative Adversarial Networks (GANs), diffusion models, and vision transformers, to transform medical imaging analysis. Our approach focuses on enhancing image resolution, generating synthetic medical datasets, and automating diagnostic processes, thereby enabling AI systems to produce high-quality images, create diverse and privacy-compliant data, and deliver accurate real-time diagnostics. The impact of integrating generative AI in medical imaging is profound. Enhanced image quality will improve diagnostic accuracy, while synthetic data generation will address data scarcity, particularly for rare diseases. Real-time diagnostic tools, powered by AI, could revolutionize surgical procedures, providing surgeons with precise intraoperative imaging and guidance. Additionally, personalized imaging analysis could lead to tailored treatment plans, advancing precision medicine. However, these advancements come with challenges, such as ensuring data privacy, eliminating bias, and maintaining transparency in AI models, requiring collaboration among technologists, clinicians, and regulators. This talk explores the transformative potential of generative AI in reshaping medical imaging, emphasizing its ability to enhance patient outcomes and efficiency in healthcare. It also addresses the ethical and regulatory considerations necessary for its responsible implementation, aiming to inspire a vision for a future where AI-driven healthcare is accessible, accurate, and personalized.

Keywords: Generative AI, Medical Imaging, Diagnosis Enhancement, Synthetic Data, Precision Medicine, Real-time Analysis

Biography:

Dr. Mansoor Hayat received his B.Sc. degree in Electrical Engineering from the University of Engineering and Technology Taxila, Pakistan, in 2015, and his M.Sc. in Electrical Engineering from the Institute of Southern Multan, Pakistan, in 2018. He also earned a Master's in Business Administration (MBA) from the National College of Business Administration and Economics, Lahore, Pakistan, in 2022. He completed his Ph.D. degree in Electrical Engineering at Chulalongkorn University, Bangkok, Thailand in 2024 with distinction. Currently, working as Post-Doctoral Fellow, Department of Surgery, Health Science Center, University of Manitoba, Winnipeg, Canada. His research is focused on the application of deep learning and machine learning in medical imaging and video processing. Additionally, he was honored with the Best Conference Paper Award at the 2023 IEEE Region 10 Conference (TENCON), held in Chiang Mai, Thailand.

3rd GLOBAL WEBINAR ON ARTIFICIAL INTELLIGENCE & DATA SCIENCE

David Garcia

AI Engineer and Founder

Enhancing CV Screening with AI to Improve Efficiency, Accuracy, and Data Privacy for Job Seekers and Recruiters

Abstract:

This webinar explores the development of AICVScreen, an AI-powered platform designed to enhance CV screening accuracy, efficiency, and fairness for job seekers and recruiters.

Research Question: How can AI improve the accuracy, efficiency, and fairness of CV screening? Recruitment processes often suffer from time constraints and inconsistent evaluations when managing large volumes of CVs. Drawing from my experience as a Talent Acquisition Data Analyst, I identified the need for an objective, AI-driven solution to streamline hiring. AICVScreen was created to provide actionable insights for job seekers and recruiters. Job seekers receive evaluations on how their CV aligns with job descriptions, while recruiters efficiently match candidates to job requirements. The development of AICVScreen began with defining its core goal: addressing CV screening inefficiencies. Research on transformer models and large language models (LLMs) led to selecting and optimizing the most suitable AI approach, refining hyperparameters and prompts to ensure accuracy. The platform was designed with a Python backend and JavaScript frontend, deployed using Docker and Google Cloud. Emphasizing GDPR compliance, CVs are processed securely without storage. AICVScreen delivers fast, accurate screening results, helping users refine their CVs or streamline candidate evaluations. Accessible globally at , with demo available at Conclusion: AICVScreen is a transformative recruitment tool, combining AI, privacy, and usability to address challenges in CV screening. This presentation explores its research-driven development and the role of AI in redefining recruitment processes. Keywords: LLM, AIRecruitment, CVScreening, Product.

Keywords: LLM, AIRecruitment, CVScreening, Product.

Biography:

David Garcia hold a degree in Industrial Engineering and later specialized in data analysis, machine learning, and development. I earned a master's degree in Data Science from the University of Birmingham and gained two years of professional experience as a Data Analyst, primarily using Python and Power BI, with a significant focus on machine learning and development. After completing my most recent contract, I decided to delve into the latest advancements in AI, which ultimately led me to develop AICVScreen.

3rd GLOBAL WEBINAR ON ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Monica Cerutti

University of Turin, Italy

Artificial intelligence and gender equality: enemies or allies?

Abstract:

Artificial intelligence is our mirror: it reflects what we are, but amplifies what we do. If we don't commit to making it fair, we risk creating a technological future that discriminates more than the human past. But if we work with the knowledge that accounting for differences in technology can make a difference, we can build a more just world, or at least try. In the future gender equality and technology can be not in opposition, but allies, starting from the analogies that bind them. Both are at the center of public debate. Artificial intelligence is an information technology, continually referred to, even inappropriately. Similarly, gender equality is an issue that is talked about a lot. We have witnessed a sort of clearing of the topic, no longer confined to the so-called "experts". It is also evoked instrumentally, so much so that the expression "pink washing" has been coined. These similarities between artificial intelligence and gender equality stop here. The first runs at stratospheric speed. The second advances very slowly, regardless of the rankings that are chosen, indeed we are witnessing setbacks, Also for this reason it is essential to put in place the conditions of an alliance that can benefit both, making artificial intelligence more inclusive and accelerating the achievement of gender equality. The aspect that works in our favor is the power of artificial intelligence to make visible those stereotypes, bias and also discriminations, existing in reality, independently of the artificial intelligence itself, which reproduces them and potentially amplifies them In particular, significant areas to work on are those related to health, work and the fight against gender violence.

Keywords: gender equality, gendergap, discrimination, bias AI

Biography:

Monica Cerutti Graduated in Computer Science. Master's degree in Computer Science and Telecommunications. Many years of experience in the world of IT work: industrial automation sector, and telecommunications. Long experience as a public administrator. From 2016 to 2019 spokesperson for the Council of European Municipalities and regions for citizenship and twinning. Since 2020, researcher at the Department of Computer Science University of Turin in the research group on digital civic technologies and social inclusion and participation with digital tools, also in gender policies in AI. UN Women Italy Co-founder & Board Member. Ambassador of Women 4.0 and Women in AI Italy.

3rd GLOBAL WEBINAR ON ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Ernie Delgado

BEYOND Technology Education, USA

the rise of v1 ai life companions: the future of personalized ai relationships

Abstract:

We are at the dawn of a profound transformation that will redefine how individuals interact with AI. We are still in the "horse and buggy" days in today's rapidly evolving AI landscape. Yet, the future promises a seamless, intelligent network of AI-driven relationships supporting individuals across every stage of life. This presentation will introduce the V1 AI Life Companions—the first generation of AI-driven personal assistants that will act as lifelong partners, guiding and enhancing human potential in education, work, relationships, creativity, and personal growth. These AI Companions will not merely provide passive assistance; they will become proactive collaborators, evolving with individuals from childhood through adulthood. Whether helping a student master complex subjects, supporting a professional in career advancement, or assisting in personal relationships, AI Life Companions will leverage real-time learning and cross-platform collaboration with other AI entities to unlock personalized opportunities. The result is an interconnected Web of AI Life Companions—a network that continuously refines itself to ensure every person can reach their fullest potential. By showcasing BTE / Learneum's AI-powered educational model, this session will explore the societal implications of AI companionship, its potential to redefine human connection, and how AI will even help individuals find their ideal life partners. As we transition from early-stage AI to fully integrated, lifelong AI relationships, we must ask: What does it mean to have a digital companion that knows you better than you know yourself? This presentation will challenge attendees to think beyond AI as a tool and embrace AI as a collaborative force—deeply personal, dynamic, and indispensable in shaping the future of human success. Keywords: AI Life Companions, Personal AI Networks, AI in Education, Future of human collaboration, AI for Personal Success

3rd GLOBAL WEBINAR ON ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Rabi Elabor

Florida Agricultural and Mechanical University

The Role of Nanotechnology, Artificial Intelligence (AI), and IoT-Driven Technologies in Waste Management and Environmental Pollution

Abstract:

Anthropogenic activities have significantly increased the amount of waste and pollution levels in the environment, posing a serious threat to public health and environmental sustainability. Effective disposal of waste has been a challenge for many decades, making it crucial to adopt advanced methods for waste management. The use of modern technologies such as nanotechnology, artificial intelligence (AI), and the Internet of Things (IoT) have transformed the approaches to waste management and environmental monitoring. With advancements in nanotechnology, researchers are able to create innovative ways to treat waste and detect pollutants at molecular levels. Meanwhile, AI-driven sensor systems and IoT networks enable effective identification and analysis of contaminants in the environment in real-time detection. The use of these emerging methods has the potential to revolutionize the field, but it also poses a number of challenges. This study explores emerging methods, providing insights into the latest trends in monitoring environmental pollution and waste management using nanotechnology, AI, and the IoT.

Keywords: Environmental Pollution, Nanotechnology, Artificial Intelligence, Internet of Things (IoT) and Waste Management

Biography:

Rabi Elabor is a distinguished researcher and PhD candidate in environmental science at the Florida Agricultural and Mechanical University in the United States. She has contributed significantly to her field by publishing peer-reviewed articles in reputed journals. She has presented her research at various national and international conferences. Her research interests are water and waste management, environmental toxicology and pollution, nanotechnology and nanoparticles, marine geospatial planning and the effect of climate change and land use on the ecosystem. Rabi has won several awards for her work and performance and engaged in peer reviewing and professional organizations

3rd GLOBAL WEBINAR ON ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Mark Breslin

Amplifi & Impact Limited, UK

Scaling AI Solutions: From Pilot to Enterprise-Wide Implementation

Abstract:

This talk guides organisations through the journey of scaling AI, from establishing meaningful KPIs and benchmarks during pilot projects to building robust, scalable foundations with Agentic AI beginning to get integrated into workflows. Mark explores strategies for overcoming common scale-up challenges, drawing lessons from real-world success stories and pitfalls. Attendees will learn how to engage people and processes, aligning AI-powered workflows with cultural shifts to ensure a seamless transition to enterprise-wide AI adoption and sustainable success.

Biography:

Mark Breslin is a thought leader in artificial intelligence, business transformation, and innovation strategy. As the co-founder of Amplifi & Impact, he drives meaningful change through AI in the B2B sector. Previously, as Chief Product & Technology Officer and Chief AI Officer at Informa, Mark led impactful AI and technology initiatives, establishing an AI Centre of Excellence. He advises global enterprises and startups on integrating AI into business strategies, emphasizing responsible and ethical adoption practices. A dynamic speaker, Mark has delivered talks at leading global events, including the AI Summit series, exploring topics such as enterprise AI transformation and AI-driven personalisation"

3rd GLOBAL WEBINAR ON ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Jefferson Oliveira Melo

Secretariat of Health, Brazil.

Development of APIs and Dashboards for Healthcare Data Analysis

Abstract:

This research focuses on leveraging data science and artificial intelligence to enhance healthcare data management and analysis. The study involves developing APIs and dashboards using Python, SQL, and Power BI to streamline access to health-related datasets while ensuring compliance with data privacy regulations like LGPD. The proposed methodology combines automated data extraction, visualization, and distribution to support decision-making processes in public health management. The project includes a case study analyzing the e-SUS system, which provides insights into individual consultations segmented by gender, age groups, geographic regions, and medical classifications. The results demonstrate significant improvements in data accessibility and usability for healthcare professionals, fostering a more informed approach to resource allocation and patient care. Future work includes integrating predictive analytics to identify trends and optimize healthcare services.

Keywords: healthcare, data science, API, dashboard, public health, analytics

Biography:

Jefferson Oliveira Melo is a data science professional specializing in public health data analysis. He holds a Professional Master's Degree in Data Science from Nuclio Digital School, Spain. Jefferson has experience in AI, machine learning, database management, and automating data pipelines, Knowledge acquired in my most recent role at the General Comptroller's Office of the Federal District (CGDF), Brazil, where I also worked as an Information Management Analyst in the Directorate of Data Science (DCID). His work focuses on developing APIs and dashboards to nhance public health data accessibility and insights.

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