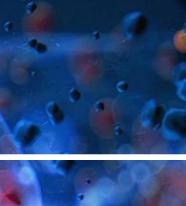# NextGenTech

Empowering
Global Summit
and TechExpo
Connect-2024

Theme- Innovate, Connect and
Empower through Technology:
The Future is Now

## | May - 2024

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# ABOUT THE CONFERENCE

## ABOUT
## THE CONFERENCE

The world is changing at a rapid pace, and technology is the driving force behind this transformation. Our conference aims to showcase the latest technological advancements and explore how technology is transforming industries, enhancing productivity, and improving people's lives. Our conference brings together experts from various fields to discuss the latest technological advancements and how they are empowering individuals and organizations to achieve their goals.

At this conference, we can hear from notable keynote speakers and panellists who will share their insights and experiences on a range of topics. This facilitates to gain a better understanding of the potential benefits of technology and how it can be leveraged to achieve positive outcomes in human well-being.

The purpose of this conference is to explore the ways in which technology is enhancing productivity, reducing costs, and improving people's lives. We believe that with a packed schedule of sessions, workshops, and networking opportunities, giving you a chance to connect with like-minded individuals and gain valuable insights and ideas. We are confident that you will leave this conference with valuable insights, actionable ideas, and a renewed sense of inspiration.

# ABOUT
# IGSMP INTERNATIONAL

## IGSMP's Story

"IGSMP" is a novel INTERNATIONAL standard and progressive podium to conduct knowledge enriching webinars and scientific conferences. The portfolio of our webinars & conferences spans a large gamut of science, medical, and technology research. We have a special focus on path breaking, less visible high potential research.

## IGSMP's DNA

Our Unique Philosophy leverages smart technology with, commitment to our defining of values of Integrity, trust, quality and multicultural expertise to foster inventive spirit among Global Scientific community. IGSMP INTERNATIONAL envisions to Simplify Science to Inspire Life. Through this distinct DNA we make possible incredible thinking to empower intelligent decisions for a simple cheerful inspired life.

## IGSMP's Mission

With a target base spanning from Novice Researchers to Nobel Laureates, we aim to enlighten our partakers about the various research areas of science and its vast repository of inventions; all the more we vouch to inspire, educate and make millions aware about the contributions of scientific inventions to the society.

We have an in-depth understanding of science and technology and also the world where scientists, researchers, educators and academicians work. The processes through which they work, the resultant effects that they want to achieve and the numerous challenges that they have to overcome in order to achieve those results. Here we pledge to use that same understanding and thus develop solutions that will not only give an insight to our customers about scientific inventions but also influence millions in more than one ways.

# OUR HONORABLE KEYNOTE SPEAKERS

**Tushar Kant**
Product Management Leader - Artificial Intelligence & Cloud Computing, Co-Founder- Global IIT Artificial Intelligence Forum Advisor to Start-Ups in Artificial Intelligence Domain, United States.

**Title:** Democratization of Artificial Intelligence (AI) through Cloud Computing.

**Chris Aldrich**
Professor and Chair in Process Systems Engineering in the Western Australian School of Mines, Curtin University, Australia

**Title:** Developments in Machine learning in the Mineral Process Industries

**Dr.M. Sundar Prakash Balaji, M.E.,Ph.D.,LISTE**
Professor/ECE, Mookambigai college of Engineering, India

**Title:** Artificial Intelligence and Machine learning in Communication.

**Dr. Jassim Haji**
President - Artificial Intelligence Society President - International Group of Artificial Intelligence Chairman - Industrial Advisory Board, Arab Open University Bahrain

**Title:** AI in Cybersecurity and Threat management.

**Byungsoo Kim**
Assistant Professor in the Department of Interior Architecture & Industrial Design at Kansas State University.

**Title:** Study of AI-Driven Furniture Design Process.

**ANAND J KULKARNIPHD, MASC,BE, NG,DME**
Research Professor & Associate Director, Institute of Artificial Intelligence, MIT World Peace University, India

**Title:** Cohort Intelligence Optimization Methodology and Applications.

**Eleni G. Makri**
Research ScientistResearch Scientist University College Dublin/Insight SFI Research Centre for Data Analytics, Greece.

**Title:** Learning Games as Open Science and Open Innovation Instructional Tools in the Workplace.

**Cees Th. Smit Sibinga, MD, Ph.D., FRCP Edin, F.R.C.P.**
Professor of International Development of Transfusion Medicine, Academic Institute IDTM, University of Groningen-NL Director, Sanquin and AABB Consulting Services, Director WHO Collaborating Centre Groningen - The Netherlands

**Title:** Artificial intelligence in transfusion medicine and its impact on the quality concept.

**Myriam Ertz, PCM, CDMP, Ph.D**

Associate Professor in Marketing, Head of LaboNFC (Laboratory of research on New Forms of Consumption), Department of economics and administrative sciences, University of Quebec at Chicoutimi (UQAC), Canada – Co-responsible Axis 1 of the Quebec Circular Economy Research Network (RRECQ).

**Title:** Industry 4.0 at the service of product sustainability

**Maryam Gholinejad**

Researcher, Delft University of Technology, Netherlands

**Title:** New ways of improving surgeries: computer technologies and process modelling.

**Dr. M. Jagadeeswari**

Department of Mathematics, National Institute of Technology, Tiruchirappalli, India

**Title:** Fuzzification and Defuzzification of Fuzzy Logic Architecture

**Yaoqi-Zhou**

Institute for Systems and Physical Biology, Shenzhen Bay Laboratory, Shenzhen, China

**Title:** AI in Cybersecurity and Threat management.

**Fengxia Deng**

Professor, School of Environment, Harbin Institute of Technology, Harbin, China

**Title:** $H_2O_2$ boosting in the Porous Tubular Titanium-based Air Diffusion Electrode: catalysts design

**Zhong Hu**

Ph.D., Professor, Graduate Coordinator, Department of Mechanical Engineering, South Dakota State University, South Dakota, USA

**Title:** Review on Material Performance of Functionalized CNTs and Hydrogen Bonding Modified Polymeric Nanocomposites.

**Dr. ArashTakshi**

Associate Professor of Electrical Engineering and a faculty at the Clean Energy Research Center (CERC) at the University of South Florida.

**Title:** Conducting Polymer Based Composite Materials for Concurrent Solar Energy Harvesting and Storage in Wearable Electronics

**Prof. Gregory Abadias**

Professor, Physics Department of the University of Poitiers, France.

**Title:** Real-time study of ultrathin metal layer growth

**Jianguo Yu**

Beijing University of Posts and Telecommunications, China

**Title:** UTC-PD in terahertz frequency band and its applications.

**Chenyu Liu**

Associate Professor, State Key Laboratory of Fine Chemicals, School of Chemical Engineering, Dalian University of Technology, P.R. CHINA

**Title:** Visual imaging guided personalized nano-delivery therapy.

**Ali Altaee**

Centre for Green Technology, School of Civil and Environmental Engineering, University of Technology Sydney, 15 Broadway, NSW 2007, Australia

**Title:** Investigation of the Effect of Surfactant on the Electrokinetic Treatment of PFOA Contaminated Soil.

**Dr. Urvashi FowdarGunputh**

Researcher and Lecturer – Additive Manufacturing Institute for Innovation in Sustainable Engineering, University of derby, UNITED KINGDOM.

**Title:** Advanced Characterisation and Machinability of superalloy IN718 additively manufactured by Laser Melting Powder Bed Fusion.

**Dr. BESTLEY JOE S**

Assistant Professor, ECE, Kings Engineering College, Chennai, India

**Title:** Significance of Doping In Nanowires for Energy Scavenging Purposes

**Yizhou Yu**

Professor at The University of Hong Kong, and was a faculty member at University of Illinois at Urbana-Champaign.

**Title:** Deep Learning Based Diagnostic Systems for Chest Abnormalities and Major Respiratory Diseases.

**AmeersingLuximon, PhD**

Professor of Practice, GTSI (China) Adjunct Associate Professor, Georgia Tech, (USA) President, Hong Kong Ergonomics Society (Hong Kong) Director, EMEDS (Hong Kong)

**Title:** Design consideration for robot head

**Gu Bangkai, PhD**

School of Physics, Southeast University, Nanjing 211189, China

**Title:** Fabrication of UV-Stable Perovskite Solar Cells with Compact $Fe_2O_3$ Electron Transport Layer by $FeCl_3$ Solution and $Fe_3O_4$ Nanoparticles.

**Valerio Carrruba**

Associate Professor ,São Paulo State University (UNESP), Brazil.

**Title:** Classification of asteroids' resonant arguments using Convolutional Neural Networks

**Fredric Narcross**

PhD Fellow Department of Biotechnology Engineering, Ben Gurion University, Israel

**Title:** Artificial Nervous Systems – a breakthrough technology for Cognitive and Neuro-Robotics.

**Julius Beneoluchi Odili**

Senior Lecturer, Department of Mathematical Sciences and the Acting Director Institute of Digital Humanities Anchor University Lagos, Nigeria

**Title:** Stochastic Process of the African Buffalo Optimization

**Sara Akbar Ghanadian**

PhD. Industrial and system engineering Ohio, university, USA, Lead data scientist in Food Industry.

**Title:** The Future of AI and Machine Learning: Challenges and Opportunities

**Dimitrios Meimaroglou**

Associate Professor, ENSIC, UL
Head of the International Relations
Office of ENSIC. LRGP (Laboratory of
Reactions and Process Engineering, UMR
CNRS 7274) 1 Rue Grandville BP20451,
F-54000 Nancy cedex

**Title:** On the effect of the different choices along the implementation of a machine-learning approach to a product engineering problem: Example of the prediction of thermodynamic properties of molecules.

**Gabriel Axel Montes**

Ph.D., Neuroscientist, Neural Axis, University of Newcastle, Australia

**Angelica Mazzolari**

Assistant Professor, Department of Pharmaceutical Sciences, University of Milan

**Title:** Artificial intelligence in drug discovery: ML methods to predict drug metabolism and toxicity

# KEY TOPICS

## Pivotal Topics

→ **Artificial Intelligence (AI) and Machine Learning (ML)** - Research on developing more accurate, efficient, and effective algorithms for AI and ML, improving human-AI interaction, and exploring the ethical and societal implications of AI and ML.

→ **Cybersecurity and Cryptography** - Research on developing better methods for detecting and preventing cyber-attacks, securing computer networks, protecting personal data, and exploring the impact of new technologies on cybersecurity.

→ **Materials Science and Nanotechnology**- Research on developing new materials and devices at the nanoscale, exploring the potential applications of nanotechnology in various fields, such as energy storage, medicine, and environmental protection, and improving the safety and sustainability of nanotechnology.

→ **Internet of Things (IoT) and Sensor Networks** - Research on developing efficient and secure communication protocols, data management and analysis techniques, and exploring the potential applications of IoT in various fields, such as healthcare, transportation, and energy management.

→ **Blockchain and Decentralized Systems** - Research on exploring the potential applications of blockchain technology beyond cryptocurrencies, such as supply chain management, identity verification, and secure voting systems, and improving the scalability and security of blockchain networks.

→ **Human-Computer Interaction (HCI)** - Research on improving the usability and accessibility of computer systems, developing new interaction techniques, and exploring the impact of emerging technologies on HCI.

→ **Robotics and Automation** - Research on developing more advanced and efficient robots for various applications, such as manufacturing, healthcare, and transportation, and exploring the ethical and societal implications of robotics.

→ **Augmented Reality (AR) and Virtual Reality (VR)** - Research on developing more immersive and realistic AR and VR systems, exploring the potential applications of AR and VR in various fields, such as education, entertainment, and training, and improving the user experience of AR and VR systems.

→ **Data Science and Big Data Analytics** - Research on developing more efficient and effective methods for analyzing and processing large and complex data sets, exploring the ethical and societal implications of data analytics, and applying data science techniques in various fields, such as healthcare, finance, and marketing.

# KEY TOPICS

→ **Cloud Computing** - Research on improving the security, scalability, and efficiency of cloud computing systems, exploring the potential applications of cloud computing in various industries, such as e-commerce, gaming, and education, and developing new business models for cloud computing services.

→ **5G and Wireless Communications** - Research on developing more advanced and efficient wireless communication technologies, improving the coverage and speed of 5G networks, and exploring the potential applications of 5G in various fields, such as autonomous vehicles, smart cities, and remote healthcare.

→ **Renewable Energy and Sustainable Technologies** - Research on developing more efficient and cost-effective renewable energy technologies, improving the storage and distribution of renewable energy, and exploring the potential applications of renewable energy in various industries, such as transportation, construction, and agriculture.

→ **Human-Robot Interaction (HRI) and User Experience Design** - Research on improving the communication and collaboration between humans and robots, developing new interaction models and interfaces, and exploring the impact of robots on society and culture.

→ **Biomedical engineering and Healthcare Technology** - Research on developing new medical devices and technologies, exploring the potential applications of engineering principles in medicine, and improving healthcare outcomes.

→ **Quantum Computing and Quantum Information Science** - Research on developing more powerful and efficient quantum computing systems, exploring the potential applications of quantum computing in various fields, such as cryptography, chemistry, and optimization, and improving the scalability and stability of quantum computing systems.

→ **Smart Cities** - Research on developing more efficient and sustainable urban infrastructures, exploring the potential applications of technology in improving city management, and improving the quality of life for urban residents.

→ **Human-Machine Interface (HMI)** - Research on improving the interaction between humans and machines, developing new interfaces and interaction models, and exploring the potential applications of HMI in various fields, such as gaming, healthcare, and transportation.

# KEY TOPICS

→ **Natural Language Processing (NLP)** - Research on developing more advanced and accurate NLP algorithms, improving the usability and accessibility of NLP systems, and exploring the potential applications of NLP in various fields, such as customer service, education, and journalism.

→ **Digital Twin** - Research on developing digital representations of physical systems, exploring the potential applications of digital twin in various fields, such as manufacturing, construction, and maintenance, and improving the accuracy and

→ **Autonomous Systems** - Research on developing more advanced and efficient autonomous systems, exploring the potential applications of autonomous systems in various fields, such as transportation, agriculture, and military, and improving the safety and reliability of autonomous systems.

→ **Computational Biology** - Research on developing more efficient and accurate methods for analyzing biological data, exploring the potential applications of computational biology in various fields, such as drug discovery, personalized medicine, and agriculture, and improving our understanding of biological systems.

→ **Additive Manufacturing and 3D Printing** - Research on developing new materials and technologies for additive manufacturing, exploring the potential applications of 3D printing in various industries, such as aerospace, automotive, and healthcare, and improving the speed and scalability of 3D printing.

→ **Human-Centered Design** - Research on designing technology that is more accessible, usable, and intuitive for humans, exploring the potential applications of human-centered design in various fields, such as education, healthcare, and entertainment, and improving the user experience of technology.

→ **Brain-Computer Interfaces (BCIs)** - Research on developing more advanced and accurate BCIs, exploring the potential applications of BCIs in various fields, such as communication, rehabilitation, and gaming, and improving our understanding of the brain.

→ **Wearable Technology** - Research on developing more efficient and user-friendly wearable devices, exploring the potential applications of wearable technology in various fields, such as healthcare, fitness, and fashion, and improving the accuracy and reliability of wearable devices.

→ **Aerospace and Aviation Technology** is a field of engineering that focuses on the design, development, testing, and operation of aircraft and spacecraft.

# KEY TOPICS

→ **Environmental Engineering and Sustainable Infrastructure** is a field of engineering that involves the design, development, and implementation of systems and processes that minimize negative impacts on the environment and promote sustainable development.

→ **Advanced manufacturing and Industry 4.0** - Advanced manufacturing and Industry 4.0 is a field of engineering that involves the integration of advanced technologies, such as automation, robotics, artificial intelligence, and data analytics, into the manufacturing processes to improve efficiency, productivity, and flexibility.

→ **Geotechnical Engineering and Earthquake Engineering** - Geotechnical Engineering and Earthquake Engineering is a field of engineering that deals with the behavior of the earth materials and their interaction with the structures built on them.

→ **Transportation Engineering and Traffic Management** - Transportation Engineering and Traffic Management is a field of engineering that deals with the design, construction, and operation of transportation systems, including roads, highways, bridges, railways, airports, and urban transit systems.