



International Conference on Interdisciplinary Innovations: Arts, Education, Business and Technology **ICAEBT-2026**



26th - 27th June, 2026



Baku, Azerbaijan

Organized by: IFERP Academy, India



International Conference on Interdisciplinary Innovations: Arts, Education,
Business and Technology (ICAEBT-2026)

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Table of Contents

Preface	V
About ICAEBT-2026	VI
About IFERP	VII
MD's Message, IFERP	IX
CEO'S Message, IFERP	X
Keynote Speakers	XI
Session Speakers	XVII
Session Chairs	XXI
Conference Convenor	XXII
Committee Members	XXIII
Abstract's Index	XXIV

Conference Theme



**“The Future of Innovation: Integrating Arts,
Technology, and Business for Societal Impact”**

Preface

We cordially invite you to attend the International Conference on Interdisciplinary Innovations: Arts, Education, Business and Technology (ICAEBT-2026) on 26th-27th June, 2026. The main objective of ICAEBT-2026 is to provide a platform for researchers, students, academicians as well as industrial professionals from all over the world to present their research results and development activities in relevant fields of Interdisciplinary Innovations: Arts, Education, Business and Technology. This conference will provide opportunities for the delegates to exchange new ideas and experience face to face, to establish business or research relationship and to find global partners for future collaboration.

These proceedings collect the up-to-date, comprehensive and worldwide state-of-art knowledge on cutting edge development of academia as well as industries. All accepted papers were subjected to strict peer-reviewing by a panel of expert referees. The papers have been selected for these proceedings because of their quality and the relevance to the conference. We hope these proceedings will not only provide the readers a broad overview of the latest research results but also will provide the readers a valuable summary and reference in these fields.

The conference is supported by many universities, research institutes and colleges. Many professors played an important role in the successful holding of the conference, so we would like to take this opportunity to express our sincere gratitude and highest respects to them. They have worked very hard in reviewing papers and making valuable suggestions for the authors to improve their work. We also would like to express our gratitude to the external reviewers, for providing extra help in there view process, and to the authors for contributing their research result to the conference.

We would like to extend our appreciation to all participants in the conference for their great contribution to the success of ICAEBT-2026. We would like to thank the keynote and individual speakers and all participating authors for their hard work and time. We also sincerely appreciate the work by the technical program committee and all reviewers, whose contributions made this conference possible. We would like to extend our thanks to all the referees for their constructive comments on all papers; especially, we would like to thank to organizing committee for their hard work.

About ICAEBT - 2026

The conference brings together creative thinking, academic expertise, business insights, and technological advancements to generate real-world impact. It serves as a platform for sharing research, best practices, and case studies that highlight transformative interdisciplinary innovation.

Conference Theme

Theme: "The Future of Innovation: Integrating Arts, Technology and Business for Societal Impact".

The theme reflects the growing global demand to bridge creativity, knowledge, industry, and digital transformation. ICAEBT 2026 will unite scholars, artists, educators, business leaders, and technologists to co-create interdisciplinary solutions that enhance human development, drive innovation, and support sustainable progress across sectors.

Purpose

ICAEBT 2026 aims to accelerate global collaboration and develop meaningful cross-disciplinary solutions. By creating a dynamic space for innovation and knowledge exchange, the conference empowers professionals and emerging leaders to address current and future challenges and contribute to a more sustainable, progressive world.

Conference Objectives

The mission of ICAEBT 2026 is to advance interdisciplinary innovation by bringing together diverse fields to address real-world challenges through creativity, research, and technology.

- **Fostering Innovation in Education:** Bringing together arts, education, business, and technology to create transformative ideas and solutions.
- **Promoting Cultural, Digital & Economic Inclusion:** Supporting equitable access to knowledge, opportunities, and technological development across regions and communities.
- **Strengthening Collaboration Between Academia & Industry:** Encouraging partnerships that lead to scalable innovation, commercialization, and social impact.
- **Empowering the Next Generation of Innovators:** Providing opportunities for students, researchers, entrepreneurs, and creators to become leaders in interdisciplinary advancements.

About IFERP

The IFERP Academy is a committed professional organization that advances engineering, science, and technology. IFERP anticipates a global scientific community brought together by digital innovation. This organization puts a great emphasis on promoting research activities, communicating the newest insights, and driving industrial trends.

IFERP has built strong networks throughout Asia, the Middle East, Europe, and countries such as Iraq, Malaysia, Australia, and more. They have incorporated networking, research support, publications, and worked in other scientific areas.

IFERP excels in organizing **International Conferences** that connect researchers worldwide. It holds important **international webinars**, publishes journals and publications that are indexed by Web of Science and SCOPUS, and provides thorough **research assistance and guidance**. Engaging in Youth Empowerment projects and encouraging Industry-Institute Interaction are key components of IFERP's goal. The organization is committed to enabling professionals through faculty advancement, skill development, and persistent research and publication initiatives.

- **Global Community Building:** IFERP exerts a lot of effort in building new communities all over the world. As community organizers, we control the conversations & inculcate passion for innovation amongst diverse groups.
- **Promoting Innovation Schemes:** IFERP has several schemes for students, professionals, researchers & organizations to being distinct innovators across all technology streams & sub disciplines.
- **Publicizing Research Publication:** Publication of research is the crucial aspect of IFERP's activities. IFERP also serves as a support center for early - career researchers aspiring to publish world-class research papers.
- **Our Origin:** Established by the Technoarete Research & Development Association (TRADA), IFERP was meant to serve as an accelerant for technological innovation worldwide.
- **Facilitating Multi-Disciplinary Collaborations:** IFERP encourages networking & collaborative partnerships on all fronts to result in a diverse collaborative atmosphere to gain abundance knowledge.
- **Access To Critical Funding & Resources:** IFERP has dedicated itself to fund for various efficient projects & activities to make it achieve successful outcomes beyond just meeting expectations.

What IFERP Does

IFERP is committed to improving the professional experience by providing a world-class platform to professionals. Their dedication extends to the following activities:

- **Academic Resource Accessibility :** They make academic resources and support available to aspiring scholars in both rural and urban locations.
- **Diverse Educational Program :** They organize a wide range of educational events such as workshops, conferences, webinars, seminars, guest lectures, short-term training programs, and faculty development programs.
- **Drive Innovation:** They work hard to foster curiosity and creativity, and stay up to date on the newest trends and advancements in the dynamic field of Engineering, Science, and Technology.
- **Knowledge Sharing and Collaboration:** They believe in the strength of the exchange of knowledge and actively collaborate with institutions, organizations, and associations to contribute to our shared objective of a better future.
- **Publication & Recognition:** They also provide opportunities for research articles to be published in reputable journals and actively promote and encourage transdisciplinary research activities.

IFERP Mission & Vision

IFERP's Mission: Upskilling the knowledge hub through technological innovation & excellence for the benefit of humanity.

IFERP's Vision: A Digitally equipped robust, dynamic & swift professional community integrating academics & industry for upgraded technical implementation.

IFERP's Value: IFERP values the restoration of high level technological research, learning, collaboration, resource sharing & community-building traditions.

IFERP's Goal: To serve as the foundation for all technological progress and advancement activities around the world.

Managing Director, IFERP



Mr. A. Siddth Kumar Chhajer

Managing Director & Founder, IFERP
Technoarete Group, India

Message:

On behalf of IFERP & the organizing Committee, I express my hearty gratitude to the Participants, Keynote Speakers, Delegates, Reviewers and Researchers.

The goal of the International Conference on Interdisciplinary Innovations: Arts, Education, Business and Technology (ICAEBT-2026) is to provide knowledge enrichment and innovative technical exchange between international researchers or scholars and practitioners from the academia and industries in various fields of academics. This conference creates solutions in different ways and to share innovative ideas in the field of Interdisciplinary Innovations: Arts, Education, Business and Technology. ICAEBT-2026 provides a world class stage to the Researchers, Professionals, Scientists, Academicians, and students to engage in very challenging conversations, assess the current body of research and determine knowledge and capability gaps.

ICAEBT-2026 will explore the new horizons of innovations from distinguished researchers, scientists and eminent authors in academia and industry working for the advancements in Recent Challenges in Interdisciplinary Innovations: Arts, Education, Business and Technology from all over the world. ICAEBT-2026 hopes to set the perfect platform for participants to establish careers as successful and globally renowned specialists in various fields of Academics.

Chief Executive Officer, IFERP



Mr. Rudra Bhanu Satpathy

Chief Executive Officer & Founder, IFERP
Technoarete Group, India

Message:

IFERP is hosting the International Conference on Interdisciplinary Innovations: Arts, Education, Business and Technology (ICAEBT-2026) this year in month of May. The main objective of ICAEBT-2026 is to grant the amazing opportunity to learn about groundbreaking developments in modern industry, talk through difficult workplace scenarios with peers who experience the same pain points, and experience enormous growth and development as a professional. There will be no shortage of continuous networking opportunities and informational sessions. The sessions serve as an excellent opportunity to soak up information from widely respected experts. Connecting with fellow professionals and sharing the success stories of your firm is an excellent way to build relations and become known as a thought leader.

I express my hearty gratitude to all my Colleagues, Staffs, Professors, Reviewers and Members of organizing committee for their hearty and dedicated support to make this conference successful. I am also thankful to all our delegates for their pain staking effort to make this conference successful.



Keynote Speaker



Dr. Nirma Sadamali Jayawardena

Assistant Professor, University of Bradford
United Kingdom

Biography:

Dr. Nirma Sadamali Jayawardena is an Assistant Professor in Marketing at the University of Bradford, UK. She completed a BSc in Business Management (first-class honours) from NSBM Green University, Sri Lanka, and an MBA in International Business from the University of Colombo, Sri Lanka. She completed her Graduate Diploma in Business Research and Ph.D. in Marketing from Griffith University, Australia. Her research interests include consumer psychology, consumer social cognition, digital video advertising, and experimental research. She has published in prestigious journals and conferences and is a recipient of multiple awards, grants and scholarships.

Keynote Speaker



Tom Kwanya

Professor, The Technical University of Kenya
Kenya

Biography:

Tom Kwanya is a Professor of Information and Knowledge Management and the Director of the School of Graduate and Advanced Studies at the Technical University of Kenya. He previously served as Director of the School of Information and Social Studies for seven years and as Chair of the Department of Information and Knowledge Management for three years. In these roles, he led strategic planning, restructured academic programs to match industry trends, and influenced university policy on research and knowledge management. With 18 years of university teaching at various levels, Prof. Kwanya has supervised many postgraduate students. His 17-year career in the industry includes roles such as Webmaster, Knowledge Management Specialist, E-Communications Manager, and Communications Technical Advisor. He also consulted for the World Bank and other partners across Africa, gaining practical insights. Prof. Kwanya is a prolific researcher with 91 journal articles, 2 monographs, 4 edited books, 32 chapters, 88 conference papers, and 11 international keynote addresses. His research covers social informatics, big data, bibliometrics, disruptive tech, AI, knowledge sharing, research productivity, data management, indigenous knowledge, IP rights, ethics, responsible AI, personal data, privacy, collaboration, and knowledge mobilisation. An active member of KNAS, ICKM, KM Pro, CSK, PRSK, and KLA, he contributes to the profession and to his field & networks. He also serves on the Kenya National Knowledge Management Technical Committee.

Keynote Speaker



Jeyhun Mammadbayli

.....
Adjunct Lecturer, Les Roches Marbella University
Spain

Biography:

Mr. Jeyhun Mammadbayli (MA, MBA, CSPM (IPMA-"B"), PMP, PgMP) is an Adjunct Lecturer of Les Roches university in Marbella (Spain) delivering courses in Leadership and Talent Management, HR and Diversity, Project Management, Strategy. In 2021-2025 he was a Professor of Practice in Public Administration at ADA University (Azerbaijan). Mr. Jeyhun Mammadbayli has a MA degree in Oriental studies from Moscow State University (1987), DMS from Nottingham Trent University (1995, UK) and MBA from the University of Bath (2002, UK). For last 34 years he was holding managerial positions in different local and international companies, dealing with Business development and Project management: Deputy GM at Improtex Group (1995-1999), Director of Business Development Alliance NGO (2003-2004), Chairman of AtaLeasing (2004-2006), Member of the Investment Committee of the Aureos Central Asia Private Equity Fund (2008-2010), Regional Sales Manager at Mars Inc. (2006-2011). He also has got 22 years of Business Trainer experience delivering training courses in Project Management, Strategic Management and soft-skills. In the meantime, M. Mammadbayli has been involved into activity of several associations: Member of Azeri-British Trade and Industry Council (1996-1999), Chairman of the Association of Leasing Companies of Azerbaijan (2005-2007), Deputy Chairman then Chairman of the Banking, Finance and Insurance Committee of AmCham Azerbaijan (2020-2024), member of PMI (since 2021).

Keynote Speaker



Dr. Peter Robbins

Associate Professor, Dublin City University
Ireland

Biography:

Peter Robbins is one of Ireland's foremost experts in innovation and new product and service development. He earned his PhD in Dublin City University where he is now an Associate Professor of Innovation. He is a former global head of innovation excellence for GlaxoSmithKline. His area of research is how firms organise for innovation. Previously, he headed up the Department of Design Innovation in Maynooth University. He is a member of the Government's National Design Forum and a member of the National Standards Agency which has helped develop the ISO Innovation Guide Standard. He is on a number of innovation advisory boards in business and the third sector. Peter has trained in design thinking at the renowned Stanford D School and has published in Journal of Product Innovation Management, R&D Management (where he is on the Editorial Review Board), Technovation, The Irish Journal of Management: International Journal of Innovation Management; London Strategy Review and regularly speaks at international conferences on the subject of managing creativity and innovation. Peter is a visiting lecturer in Princess Nourah University in Riyadh, Warwick University Business School and has been a Senior Associate in the Irish Management Institute for over a decade.

Keynote Speaker



Prof. Dr. Padmakumar Nair

Vice Chancellor
Thapar Institute of Engineering and Technology
India

Biography:

Dr. Padmakumar Nair is the Vice Chancellor of Thapar Institute of Engineering and Technology and the founding Dean of the Thapar School of Liberal Arts and Sciences. With over 38 years of combined experience across academia, industry, consulting, and advanced research, he has worked with global organizations including Shell, PwC, and leading universities across Europe, the US, and Asia. His research interests span innovation in higher education, leadership development, nanostructured materials, and sustainability. Dr. Nair has authored more than 55 publications and has over 2,900 citations with an H-index of 29. He has taught and conducted leadership programs internationally for organizations such as Ericsson, Citi Bank, Hitachi, and Pfizer. Previously, he served as a Clinical Professor and Founding Academic Director at the University of Texas at Dallas. His philosophy, "Empathy is the Mother of Excellence," reflects his commitment to transformative education and societal well-being.

Keynote Speaker



Assoc. Prof. Dr. Norma Alias

Associate Professor
Universiti Teknologi Malaysia (UTM)
Malaysia

Biography:

Associate Professor Dr. Norma Alias received her Ph.D. in Industrial Computing (Supercomputer) at Universiti Kebangsaan Malaysia. She is the Committee of Synthetics Biology RG and Future Ready Educator 4.0. Handling 30 webinars per year at the local and international levels. She is among 40 UTM research excellence in the year 2006, Venus Distinguished Women Award and a mentor for SUNSHINE++ program. She is chair for 4 international conferences, MSMK Chief Editor and Associate Editorial Board for 38 international journals. Her research encompasses big data analytics on high-performance computing, validation of complex mathematical model, solving grand- challenge applications in nanotechnology, IoT, AI-smart digital towards Industry 5.0.

Session Speaker



Dr. Tran Minh Tung

Business Lecturer, FPT University
Vietnam

Biography:

Dr. Tran Minh Tung gained (his 1st Doctoral Degree) a Doctor of Business Administration (DBA Degree) in Marketing Management from University of Technology and Management (UITM), Poland and a Master of Science in Business Information Systems from Heilbronn University, German. He is currently a Business Lecturer at FPT School of Business and Technology (FSB) - FPT University. He has over 20 years of work experience and over 12 years in teaching and sharing at both over 100 Enterprises and over 25 Higher Educational Institutions in Vietnam. His research interests are in Social Media, PR, Marketing, Marketing in Higher Education, Innovation Teaching Methodology, Data Driven Marketing, Information Systems, Standards Based Curriculum, Experience Learning and Gamification in Education. Recently, he has completed and obtained (his 2nd and 3rd Doctoral Degree) EdD - Professional Doctorate in Educational Administration & Leadership and Doctor of Philosophy (Ph.D.) in Media and Communication from European International University, EIU-Paris, France, in 2023 which can assist him in his personal development plan (PDP) and professional career in current role in leading and administrating international higher education as well as teaching Media and Business.

Session Speaker



Prof. Dr. Elsadig Musa Ahmed

.....
Professor, Multimedia University
Malaysia

Biography:

Dr. Elsadig Musa Ahmed Mohammed is a distinguished Professor of Economics and Technology Management at Multimedia University (MMU), Malaysia, recognized among the 2024 and 2025 World's Top 2% Scientists by Stanford University. With over two decades of academic experience, he has published extensively in the world's top 1% and 10% journals, authored the book *Green Productivity: Applications in Malaysia's Manufacturing*, and contributed more than 150 peer-reviewed articles indexed in Scopus and Web of Science. Dr. Ahmed's expertise spans development economics, green productivity, digital and knowledge-based economies, bioeconomy, microfinance, and the interface of economic growth with environment and technology. He has successfully supervised over 30 postgraduate theses, received multiple international research grants—including from the Malaysian Government and the Islamic Development Bank—and served as a reviewer and editorial board member for high-impact journals. His accolades include Most Cited Paper Award, Journal of Open Innovation: Technology, Market, and Complexity, 2025, Development Goals, Digital Technology Adoption, AI in Art and Creativity, Econometrics, Development Economics, Sensing Technology 2025 Best Researcher Awards, 2023 Sustainability Pioneers Award (WASD), and Outstanding Reviewer in the Emerald Literati Awards (2021). Dr. Ahmed is also an active contributor to global academic networks and policy think tanks, notably as a member of the Council for Sudanese Experts and Scientists Abroad.

Session Speaker



Prof. Dr. Vishal M. Tidake

.....
Professor, Sanjivani College of Engineering
India

Biography:

Dr. V. M. Tidake is an accomplished academician and administrator with extensive experience in higher education, research, and institutional development. He currently serves as Dean of Training & Placement and Professor at Sanjivani College of Engineering, Maharashtra. With a Ph.D. in Financial Management and dual MBAs in Finance and HRM, he brings strong expertise in financial management, entrepreneurship development, and curriculum innovation. He has held key leadership roles, including Dean of Entrepreneurship Development Program, and has significantly contributed to enhancing student employability and industry collaboration. Dr. Tidake has published numerous research papers in reputed journals, authored books, and contributed case studies and book chapters in Scopus-indexed publications. Recognized with several prestigious awards, including the Nation Builder Award and Outstanding Leadership honors, he is also an active trainer, mentor, and member of professional bodies, dedicated to academic excellence, innovation, and societal impact.

Session Speaker



Prof. Dr. Ir. Lilik Sutiarso

Faculty Member, Universitas Gadjah Mada
Indonesia

Biography:

Professor Lilik Sutiarso is a faculty member in the Department of Agricultural and Biosystems Engineering at Universitas Gadjah Mada (UGM), Indonesia, where he has served since 1990. He was Dean of the Faculty of Agricultural Technology (2012–2016) and President of the Indonesian Society of Agricultural Engineers (ISAE). He earned his Ph.D. in Intelligent Control Systems for Agricultural Machinery from Tsukuba University, Japan, a Master's from the Asian Institute of Technology, Thailand, and a Bachelor's degree from UGM. His expertise lies in agricultural machinery and systems engineering, with research focusing on biosystems modelling, simulation, and artificial intelligence in precision agriculture. He collaborates across disciplines and has published extensively in international journals. He currently leads a consortium developing AI-based decision support systems for smallholder farmers. He is a certified Professional Engineer (2017), ASEAN Engineer (2023), and APEC Engineer (2025).

Session Chairs



Dr. Arun Raj Lakshminarayanan

Associate Professor
Department of Computer Science and Engineering
B.S. Abdur Rahman Crescent Institute of
Science and Technology, India



Mr. Trilok Reddy

Assistant Professor
Faculty of Management and Commerce
Ramaiah University of Applied Sciences, India

Conference Convenor



Prof. Dr. G. P. Ramesh

Conference Convenor
India

Biography:

Dr. G. P. Ramesh is a distinguished academican, visionary technologist and ambitious researcher with over 26 years of multifaceted experience spanning higher education, advanced research and industry leadership. His career reflects a seamless integration of academic excellence and technological innovation, positioning him as a transformative force in engineering education and applied research. A dynamic leader and passionate educator, Dr.G.P.Ramesh has served as Professor and Head of Electronics and Communication Engineering at prestigious institutions across India and abroad. He has mentored undergraduate, postgraduate and doctoral scholars, successfully guiding Twenty-Two Ph.D. candidates and nurturing a culture of inquiry and excellence. His academic expertise encompasses artificial intelligence, machine learning, embedded systems, VLSI design and antenna technologies. With more than 125 publications in Scopus-indexed journals, his scholarly influence is evidenced by an H-index of 32 and an i10-index of 70, marking him as a prominent contributor to global research discourse. He has also organized Twelve International and Six National conferences, publishing proceedings with Springer and ensuring global visibility through Scopus and Web of Science. A pioneer in Outcome-Based Education and a strategic advisor for NAAC, NBA and Autonomous frameworks, Dr.G.P.Ramesh continues to shape future-ready engineers and scalable, tech-driven solutions for India and beyond.

Committee Members

Organizing Committee Members

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Faculty of Geography, Baku State University, Azerbaijan

Conference Co-Chair

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Director
Department of Foreign Languages
Sumgayit State University, Azerbaijan

Dr. Marivic Han-Awon

Instructor
Department of English Education
Bukidnon State University, Philippines

Dr. Analyn Diola

Assistant Professor
Bachelor of Secondary Education
Pangasinan State University, Philippines

Dr. M. Ruben Anto

Assistant Professor
Department of Business and Management
CHRIST (Deemed to be University), India

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Mouloud Mammeri University of Tizi-Ouzou, Algeria

Dr. Barbara Dell'Abate

Associate Professor
Department of English and Italian Literature
Istanbul University, Turkey

Abstract's Index

Stigma-Sensitive AI for Mental-Health Literacy and Help-Seeking: An Interdisciplinary Framework for Inclusive Digital Innovation.....	01
Zoya Choudhary	
AI for Career Guidance Enhancing Student Career Readiness through Digital Frameworks	02
Marco T. Quimod	
Kristine T. Soberano	
Wormscope: A New Generation of Small Automated Endoscope: Why it can be Gamechanger?.....	03
Mohammed Hamid Al-Sabawi *	
The Innominate Source Code: Harmonizing the Bohr-Pasteur Nexus for Global Societal Regeneration.....	04
Kang L. Y. *	
AI-Powered Voice-to-Sign Language Translator Using DeepSpeech and Alphabetic Gesture Visualization	05
M. Jayanthi	
Keerthana K	
The Symbolism of Silence in the Literary Work of Antoine de Saint- Exupéry	06
Andreea, Onișoară	
Prof. Dr. Mara Magda Maftei	
Evaluating BB84 and E91 QKD Protocols for Secure Healthcare Communication.....	07
Bhupesh S	
Ansh Maheshwari	
Dr. Ramkumar J	
Re Mapping Dong Xuan and A Data Driven Approach to Living Heritage Regeneration.....	08
Nguyen Do Minh Phuong	
Tran Thi Mai Anh	
Vu Quynh Mai	
Nguyen Doan Thien Nhan	
AI Powered Career Guidance System.....	09
Anjana Priya S S	
S. Babitha	
Jasar Mohamed. J	

Sustainable Solutions through STEAM+H	10
Nashielly Yarzabal Coronel	
Yadira Alatríste Martínez Martínez	
Renata Edith Renteria Funes	
Innovating Education through Arts and Creativity	11
Dilyana Hantova	

Stigma-Sensitive AI for Mental-Health Literacy and Help-Seeking: An Interdisciplinary Framework for Inclusive Digital Innovation

Zoya Choudhary

Independent Researcher, Delhi NCR, India

Abstract

Artificial intelligence is increasingly being integrated into education, workplace learning, digital counselling pathways and everyday help-seeking. For young adults navigating academic, career and social transitions, AI-enabled tools may offer low-barrier access to mental-health literacy, psychoeducation and early support. However, these systems may also reproduce stigma, blur human-AI care boundaries, provide overgeneralised psychological guidance, or fail to respond safely to distress in culturally diverse contexts. This conceptual paper proposes an interdisciplinary framework for stigma-sensitive AI in mental-health literacy and help-seeking. Drawing on counselling psychology, digital mental-health scholarship, human-AI interaction and responsible innovation, the paper identifies five evaluation dimensions: stigma-sensitive language, accessibility and disclosure, boundary clarity, escalation to human support, and cultural and contextual responsiveness. The framework argues that inclusive digital innovation should not be assessed only through usability, engagement or technical efficiency; it must also consider whether AI systems support help-seeking without replacing human care, pathologising normal distress, reinforcing stereotypes, or increasing emotional dependence. The paper is particularly relevant to educational and organisational settings where students and young professionals may hesitate to seek formal support due to shame, cost, access barriers or fear of judgement. It concludes that ethically designed AI tools can contribute to mental-health literacy and early help-seeking only when embedded within transparent limits, privacy safeguards, culturally sensitive communication and referral pathways to qualified human support. The proposed framework offers a preliminary basis for future research, policy dialogue and design evaluation at the intersection of technology, education, business and social impact.

Keywords

Stigma-sensitive AI, digital mental health, mental-health literacy, human-AI interaction, responsible innovation.

AI for Career Guidance Enhancing Student Career Readiness through Digital Frameworks

Marco T. Quimod

TLE Department, Department of Education - Calatrava NHS, San Carlos City, Negros Occidental, Philippines

Kristine T. Soberano

College of Computing and Information Sciences, State University of Northern Negros, Sagay City, Negros Oriental, Philippines

Abstract

The swift advancement of the artificial intelligence (AI) age is transforming educational environments by providing significant prospects in tailored career guidance. This project investigates the utilization of AI-driven digital platforms to enhance student job preparedness, focusing on the design, implementation, and assessment of AI solutions tailored to individual learning preferences and professional aspirations. The study investigates the potential of AI to facilitate wise career decisions, uncover skill deficiencies, and implement proactive measures for professional advancement through the utilization of machine learning algorithms, predictive analytics, and adaptive assessment systems. The initial findings indicate that the AI-driven guidance frameworks facilitate career planning while simultaneously improving students' self-efficacy, motivation, and employability. This research contributes to the expanding corpus of information regarding educational technology and career development, emphasizing the opportunities and obstacles associated with the implementation of AI in cultivating future-ready learners.

Wormscope: A New Generation of Small Automated Endoscope: Why it can be Gamechanger?

Mohammed Hamid Al-Sabawi *

Fellowship Pediatrics Gastroenterologist, M. B. Ch. B., C. A. B. Ped., Baghdad Medical City, Baghdad, Iraq

Abstract

The traditional endoscope has many risks and disadvantages including pain, risk of anesthesia, looping, trauma to the lumen with bleeding, and perforation. In addition, it cannot reach beyond the second part of duodenum as well as it is sometimes difficult to guide. Aim of this study is to design a device of endoscopy which is easy to control and free from the above problems. Worm scope is a small size endo scope (about the size of human finger) that moves automatically in peristaltic movement like worms which is controlled by joystick. It can examine the entire gastrointestinal tract. Therefore, it can replace Esophago-gastro-duodenoscopy (EGD), colonoscopy, enteroscopy and wireless capsule.

Keywords

Wormscope, Small endoscope, Automated endoscope, Gamechanger.

The Innominate Source Code: Harmonizing the Bohr-Pasteur Nexus for Global Societal Regeneration

Kang L. Y. *

College of Management, National Pingtung University, Taiwan, R.O.C.,

Abstract

The global innovation landscape is currently fractured by "Utility Bias," prioritizing immediate Edisonian output over long-term Bohr-level inquiry. Problem Statement: This creates an "Ingenuity Deficit," where Business and Technology lack the "Source Code"—the fundamental humanistic values—required to ensure societal impact, leading to a collapse of the Interdisciplinary Innovation ecosystem. Methodology and Motivation: This study introduces the Unified Ingenuity Framework (UIF). It rejects traditional quantification in favor of Deep-Contextual Mapping across three case studies: (1) The Baku Urban-Silk-Road Digital Heritage Project, (2) The Global STEAM-Education 'Speculative Design' Initiative, and (3) The Circular-Economy 'Bio-Art' Labs. These cases demonstrate how the "Innominate Quadrant"—the space of artistic speculation—acts as the foundational software for the other sectors. Findings and Discussion: The research discovers that the Innominate Quadrant is the "Source Code of Ingenuity." It is the only space where "Non-Quantifiable" artistic logic can recalibrate technological trajectories. The findings show that when the Innominate space is formalized in Business and Education, it creates a "Regenerative Loop" that transforms raw technology into "Socially-Healing Infrastructure." Conclusion and Originality: The study concludes that the future of innovation is not the speed of technology, but the depth of its Source Code. This study is the first to prove that the Innominate Quadrant is the essential stabilizer of the Bohr-Pasteur nexus. It provides ICAEBT-2026 with a revolutionary blueprint for the "Universal Integration" of Arts, Business, and Tech.

Keywords

Bohr, innominate, Pasteur, quadrants, regenerative loop.

AI-Powered Voice-to-Sign Language Translator Using DeepSpeech and Alphabetic Gesture Visualization

M. Jayanthi

Assistant Professor, Department of Computer Science and Engineering, Kalaingar Karunanidhi Institute of Technology, Tamil Nadu, India

Keerthana K

Student, Department of Computer Science and Engineering, Kalaingar Karunanidhi Institute of Technology, Tamil Nadu, India

Abstract

Communication accessibility remains a major challenge for people with auditory and verbal challenges limitation. To address this issue, our proposed system introduces a live voice-to-sign language interpretation model that transforms verbal voice input into text and related sign language alphabet characters. The system captures live audio through a microphone interface, which is processed using the DeepSpeech speech recognition algorithm to accurately transcribe speech into text. The recognized text is then mapped to its respective American Sign Language (ASL) alphabet signs represented as static image symbols (A-Z). This dual-output approach enables clear, accessible exchange of information between hearing and non-hearing people. The system is designed for real-time execution, integrating audio preprocessing, acoustic modeling, and visual sign rendering with minimal latency. By leveraging deep learning-based conversion of speech-to-text conversion and static gesture mapping, the model achieves high accuracy and responsiveness even under variable acoustic conditions. This research advances the creation of AI-driven assistive communication tools, promoting inclusivity and establishing a connection between spoken language and sign-based communication.

Keywords

Deep Speech, sign language translation, speech recognition, live microphone input, real-time communication, assistive technology.

The Symbolism of Silence in the Literary Work of Antoine de Saint- Exupéry

Andreea, Onișoară

Faculty of Letters, Doctoral School, University of Bucharest, Bucharest, Romania

Prof. Dr. Mara Magda Maftei

Lead Scientist, Professor, University of Bucharest, Bucharest, Romania

Abstract

According to the *Dictionary of Symbols*, silence, more than the absence of sound, is a symbol of a « great ceremony », being a prelude to openness to revelation, a passage to hidden depths. God reaches the soul in which silence reigns. According to some traditions, at the beginning of the world there was silence, and silence will also exist at its end. In literature, silence has become a very important symbol, a special language allowing multiple interpretations. For the French writer Antoine de Saint-Exupéry, silence is a nuanced language, encompassing multifaceted symbolism. Through this work, we aim to illustrate how silence conveys meaning in the literary works of Antoine de Saint-Exupéry, which, although influenced by certain artistic movements, nevertheless escape classification within the literary currents of the 20th century, being the result of a return to the creative subconscious of man and to symbolic thinking.

For some literary critics, Antoine de Saint-Exupéry learned the unique language of silence in the desert, but the hidden meanings of this symbol have yet to be revealed through an in-depth analysis of his writings.

Evaluating BB84 and E91 QKD Protocols for Secure Healthcare Communication

Bhupesh S

Department of Computing Technologies, College of Engineering and Technology, SRM Institute of Science and Technology, Tamil Nadu, India

Ansh Maheshwari

Department of Computing Technologies, College of Engineering and Technology, SRM Institute of Science and Technology, Tamil Nadu, India

Dr. Ramkumar J

Department of Computing Technologies, College of Engineering and Technology, SRM Institute of Science and Technology, Tamil Nadu, India

Abstract

The rapid digitalization of healthcare systems has been observed to result in a significant enhancement of the accessibility of patient information. However, the occurrence of critical challenges related to the security of patient information has also been observed. The conventional application of cryptographic techniques, which is heavily dependent upon the complexity of the computation involved in the process, may not be efficient in the presence of quantum computing technology. To address the aforementioned problem, a secure healthcare communication framework has been proposed that is based upon Quantum Key Distribution (QKD) protocols such as BB84 and E91. The proposed system has been designed in such a fashion that it can be integrated with the existing healthcare system for secure communication of Electronic Health Records (EHRs) using quantum technology for generating keys for secure communication. The performance of the proposed system has been evaluated using the simulation-based approach for both of the aforementioned protocols. The performance of the system, as per the proposed approach, has been evaluated in the presence of channel noise as well as potential eavesdropping attacks. The performance of the system has been evaluated using performance indicators such as Quantum Bit Error Rate (QBER), secure key generation rate, and detection of potential attacks. The efficiency of the proposed system using the BB84 protocol in comparison to the E91 protocol has been clearly indicated.

Keywords

Quantum Key Distribution, BB84, E91, QBER.

Re Mapping Dong Xuan and A Data Driven Approach to Living Heritage Regeneration

Nguyen Do Minh Phuong

Hanoi Architectural University, Hanoi, Vietnam

Tran Thi Mai Anh

Hanoi Architectural University, Hanoi, Vietnam

Vu Quynh Mai

Hanoi Architectural University, Hanoi, Vietnam

Nguyen Doan Thien Nhan

Hanoi Architectural University, Hanoi, Vietnam

Abstract

In the context of rapid urbanization across Asian cities, traditional markets functioning as forms of living urban heritage are increasingly confronted with conflicts between conservation and redevelopment. The core problem lies in the absence of a decision making framework capable of integrating multidimensional heritage values with contemporary operational demands, often resulting in interventions that are either superficially preservative or excessively commercialized. This research addresses this gap by developing a data driven evaluation and intervention model, using Dong Xuan Market in Hanoi, Vietnam as a case study.

The research adopts an interdisciplinary methodology that integrates both qualitative and quantitative approaches. It begins with a synthesis of international theoretical frameworks on urban heritage to establish a foundational criteria system. Building upon this, a multilayer mapping approach is employed, incorporating data on microclimate conditions, spatial morphology, economic ecosystems, structural vulnerabilities, and governance structures. These layers are overlaid to generate a fine grained spatial segmentation into micro zones. Subsequently, a Multi Criteria Evaluation Index is developed, consisting of the Heritage Value Index, the Vulnerability Index, and the Intervention Feasibility Index, enabling the quantification of intervention priorities. Three intervention scenarios, including minimal, balanced, and radical transformation, are then formulated and tested against the same dataset.

The findings reveal a clear spatial differentiation in intervention priorities, with areas of high heritage value often coinciding with zones of significant vulnerability and overload, thereby forming critical points of conflict. The evaluation model demonstrates its capacity to identify optimal intervention zones where improvements can achieve maximum impact with minimized cost and risk. Among the three scenarios, the balanced approach proves to be the most effective, as it preserves the structural framework and spatial identity while substantially improving microclimatic conditions, technical infrastructure, and internal circulation systems.

This research contributes a replicable methodological framework for the regeneration of urban heritage, particularly applicable to traditional market systems in rapidly urbanizing contexts. More importantly, it advocates a shift from intuition based design approaches toward data driven decision making models, thereby expanding the methodological foundation of architecture and urban studies, and offering an integrative platform for future education and professional practice.

AI Powered Career Guidance System

Anjana Priya S S

Department of Information Technology, Hindustan Institute of Technology and Science, Tamil Nadu, India

S. Babitha

Department of Information Technology, Hindustan Institute of Technology and Science, Tamil Nadu, India

Jasar Mohamed. J

Department of Information Technology, Hindustan Institute of Technology and Science, Tamil Nadu, India

Abstract

This research introduces the design and development of an AI-Powered Career Guidance System that utilizes high-level natural language processing and generative intelligence to give personalized and data-driven career recommendations. The system incorporates various multi-modal user inputs such as demographic information, academic achievements, interests, skills, quiz answers, and optional information on resumes to build an extensive user profile. Google Gemini provides the capabilities to generate multiple types of aptitude quizzes based on their user's profile; in addition to that, you can analyse the results from those quizzes and assess an individual's career potential and advise them on possible paths and Career Roadmaps based on the capabilities assessed. Furthermore, using the Gemini system to build your Career Roadmap, you can create additional modules that will analyse resume/job description matches, identify additional skills required to advance in your field, and provide customized Learning Roads with resources that can be found on the Internet.

Backend development uses API services built with Flask and SQLite for storage, while the frontend uses React to create a user-friendly interface to review data from the backend development. The Gemini system also accepts external API feeds of Recommended Courses and generates a variety of skill assessment visualisation dashboards based on Quizzes taken in the system. The experimental evaluation of the system provides strong evidence of the system's prospects to deliver accurate Career Predictions and meaningful feedback and actionable Learning Plans created to help students and early career professionals make more effective decisions.

This research provides an additional perspective on the issue of Career Navigation for students and early career professionals using a comprehensive AI-based Career Navigation System that has been validated through rigorous demographic-based research methodologies and has broad applications across multiple fields of study/profession.

Sustainable Solutions through STEAM+H

Nashielly Yarzabal Coronel

Instituto Politecnico Nacional, Mexico City, Mexico

Yadira Alatríste Martínez Martínez

Universidad Autonoma de Metropolitana Azc., Northern Mexico City, Mexico

Renata Edith Renteria Funes

Instituto Politecnico Nacional, Mexico City, Mexico

Abstract

STEAM + H develops comprehensive and innovative sustainable solutions through transdisciplinarity using the STEAM-ABP methodology. This approach reflects the creative process and collaborative work that contributes to solving complex global problems. The sustainable solutions developed with STEAM + H represent a response to the Sustainable Development Goals of the 2023 Agenda. It proposes solutions to the social problems of our time, such as mental health, education, equity, lack of opportunities and knowledge, and promotes peace in educational institutions. Therefore, it addresses Goal 3: Good Health and Well-being, while the Environmental Education Campaign addresses Goal 4: Quality Education and SDG 6: Clean Water and Sanitation. These actions together contribute to SDG 13: Climate Action. Finally, the Violence Prevention program addresses Goal 5: Gender Equality, Goal 10: Reduced Inequalities, and Goal 16: Peace, Justice, and Strong Institutions.

These projects demonstrate the integration of disciplines, as well as how technology, design, art, and creativity combine relevant ideas to contribute to local problems that are also global issues. These proposals are scalable and provide inspiration for generating others contextualized to different regions.

The aim of these initiatives is to show how STEAM+H can contribute innovative solutions to any problem, in addition to developing scientific knowledge, procedures, technological and digital skills, socio-emotional skills, and ethical and sustainable skills.

Innovating Education through Arts and Creativity

Dilyana Hantova

Lecturer, South-West University "Neofit Rilski", Blagoevgrad, Bulgaria

Abstract

The rapid changes of contemporary society requires innovative educational approaches that foster creativity, critical thinking, emotional intelligence, and intercultural competence. Arts-based education has emerged as a powerful instrument for enhancing learning outcomes and preparing students for the challenges of the twenty-first-century. This paper explores the role of arts and creativity in educational innovation, emphasizing their impact on student engagement, cognitive development, social inclusion, and the integration of digital tools in education. The study examines contemporary pedagogical models that integrate visual arts, music, theatre, dance, and creative technologies into formal and non-formal educational settings. Special attention is given to interdisciplinary learning, project-based education, and the integration of digital arts into classroom practices. The paper concludes that arts-centered educational strategies significantly contribute to holistic student development and foster innovation, collaboration, and lifelong learning skills essential for global citizenship.

Keywords

Arts education, creativity, innovative pedagogy, interdisciplinary learning, digital education, student engagement, educational innovation.

