UKMC IC

2026



Organizer

Universitas Katolik Musi Charitas

Conference Program Book

The Intelligent Future: Interdisciplinary AI-Driven Innovation in Technology, Business, Healthcare, and Education for Sustainable and Resilient Societies

Date & Venue

October 20th 2026 | Zoom Meeting

UKMC INTERNATIONAL CONFERENCE 2026

PROGRAM BOOK

The Intelligent Future: Interdisciplinary AI-Driven Innovation in Technology, Business, Healthcare, and Education for Sustainable and Resilient Societies

19–20 October 2026

Virtual International Conference

Palembang, South Sumatra, Indonesia

Organized by
Universitas Katolik Musi Charitas
Through
Lembaga Penelitian dan Pengabdian kepada Masyarakat (LPPM)
Research and Community Service Institute
Universitas Katolik Musi Charitas
Palembang, Indonesia

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Lembaga Penelitian dan Pengabdian kepada Masyarakat (LPPM)
Universitas Katolik Musi Charitas
Palembang, South Sumatra, Indonesia

About This Book

The UKMC International Conference 2026 was organized by Universitas Katolik Musi Charitas through its Research and Community Service Institute (LPPM) as an international academic forum dedicated to interdisciplinary research, scientific exchange, and the dissemination of knowledge. The conference provided opportunities for researchers, academics, and professionals to share scholarly perspectives on emerging technological developments and their implications for sustainable and resilient societies.

The *UKMC International Conference 2026 Program Book* serves as the official compilation of the conference's scientific programme, keynote speaker profiles, and research abstracts. The volume documents the academic contributions presented or included in the conference programme and provides a structured reference for participants, researchers, academic institutions, and other interested readers.

The book contains an overview of the conference, information on international participation, the scientific programme for both conference days, biographical profiles of five keynote speakers, and abstracts of research manuscripts organized according to their respective thematic parallel sessions.

The first day of the conference, held on 19 October 2026, featured five keynote addresses delivered by speakers affiliated with academic and professional institutions in Indonesia, the Philippines, Spain, the United Kingdom, and the Netherlands. The keynote programme addressed interdisciplinary developments in artificial intelligence, healthcare innovation, sustainable business, industrial ergonomics, language assessment, and meaningful work in education.

The second day, held on 20 October 2026, comprised research presentations organized into five thematic parallel rooms. The original scientific schedule included 47 research presentations. Two additional internationally coauthored research manuscripts were subsequently incorporated into the Room 2 abstract collection, bringing the total number of research papers included in this volume to 49. These two manuscripts are documented as additional scholarly contributions and are not assigned presentation times that have not been independently verified.

The volume reflects contributions from Indonesian and international academic networks and supports the documentation and dissemination of interdisciplinary scholarly activities associated with UKMC International Conference 2026.

Scope and Editorial Notes

This publication is intended to provide an organized record of the conference programme and submitted research abstracts. Abstracts are arranged according to the thematic room assignments and paper sequence established for the conference, with additional manuscripts identified where applicable.

Author names, institutional affiliations, paper titles, and abstract content are presented on the basis of the available conference registration records, submitted manuscripts, and editorial documentation. Any subsequent corrections to author information or institutional affiliations should be reconciled with the final verified conference records.

This volume constitutes a conference program and abstract book, rather than a full-text conference proceedings publication. Inclusion of a research abstract does not independently establish acceptance, peer-reviewed publication, or indexing of the corresponding full manuscript in any journal or proceedings series. Such publication decisions remain subject to the editorial policies, review procedures, and acceptance requirements of the respective publication outlets.

Publication Purpose

The publication of this volume is intended to preserve the scientific contributions associated with UKMC International Conference 2026, facilitate access to research topics presented across disciplines, and support continued academic communication and collaboration.

Through the documentation of keynote perspectives and research abstracts, the book is expected to contribute to the exchange of scholarly knowledge and the development of interdisciplinary research networks addressing technological innovation, sustainability, and societal resilience.

UKMC International Conference 2026

Program and Abstract Book

Universitas Katolik Musi Charitas
Palembang, Indonesia
October 2026

CONFERENCE COMMITTEES

The UKMC International Conference 2026 was organized by Universitas Katolik Musi Charitas through the Research and Community Service Institute (LPPM). The official conference committee was established under Rector's Decree No. 411/II/A-PN1002/07/2026, dated 7 July 2026. Additional programme assistants and student publication assistants were involved in supporting the implementation of the conference on 19–20 October 2026.

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Rector, Universitas Katolik Musi Charitas

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Acknowledgements
The organizing institution extends its sincere appreciation to all members of the steering, scientific, and organizing committees, as well as the additional programme personnel and student assistants who supported UKMC International Conference 2026.
Special recognition is given to the students who contributed to programme coordination, virtual conference operations, participant assistance, and publication administration. Their involvement supported the successful implementation of the conference and reflected the university's commitment to collaborative academic activities and student professional development.

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01 CONFERENCE OVERVIEW

SCOPE / PARTICIPATION / INTERNATIONAL REPRESENTATION

The UKMC International Conference 2026 was held virtually on 19–20 October 2026, organized by Universitas Katolik Musi Charitas, Palembang, Indonesia, under the theme *"The Intelligent Future: Interdisciplinary AI-Driven Innovation in Technology, Business, Healthcare, and Education for Sustainable and Resilient Societies."* The two-day international academic conference brought together scholars, researchers, academics, and practitioners from various institutions and countries to exchange scientific knowledge, present research findings, and strengthen interdisciplinary collaboration. The first day featured five distinguished keynote speakers representing international academic and professional institutions, while the second day was dedicated to research presentations conducted across five parallel thematic sessions covering technology, business, healthcare, education, and related interdisciplinary fields.

Registration and Program Profile

The UKMC International Conference 2026 brought together academics, researchers, and practitioners through an international academic forum held virtually on 19–20 October 2026. The conference featured five keynote speakers and research presentations organized into five parallel thematic rooms. The registration and program statistics are summarized below.

Indicator	*Count*
Total registered participants	63
Registered presenters	51
Registered non-presenting participants	12
Keynote speakers	5
Countries represented in the keynote program	5
Countries represented across the conference and international research collaboration	6
Parallel presentation rooms	5
Research presentations listed in the official program	47

International Representation

International participation in UKMC International Conference 2026 was reflected in the involvement of keynote speakers affiliated with institutions across five countries, complemented by international research collaboration involving an additional country. The conference brought together academic and professional perspectives from Indonesia, the Philippines, Spain, the United Kingdom, the Netherlands, and Brazil.

The distinction between keynote participation, research presentation, and international coauthorship is maintained to ensure accurate documentation of the conference's international engagement.

Country	*Type of Representation*	*Institutional Affiliation or Supporting Record*
Indonesia	Keynote speaker, research presenters, and organizing institution	Universitas Katolik Musi Charitas and participating Indonesian institutions
Philippines	International keynote speaker	Dr. Joel Rey U. Acob, Visayas State University
Spain	International keynote speaker	José María Martínez-Gonzalo, Ph.D., ESIC University
United Kingdom	International keynote speaker	Benjamin Cook, EnglishScore
Netherlands	International keynote speaker	Andrew Setiono, University of Groningen
Brazil	International research collaboration through coauthorship	Marcelo Batalioto, international coauthored research manuscript

The international representation demonstrates the conference's engagement with academic and professional networks across Asia, Europe, and South America. Through keynote presentations, interdisciplinary research dissemination, and international scholarly collaboration, the conference provided opportunities for scientific exchange and the development of cross-border academic partnerships.

Participating and Contributing Institutions

UKMC International Conference 2026 brought together academic and professional contributions from institutions across Asia, Europe, and South America. Institutions represented through keynote speakers, registered participants, and research manuscripts included Universitas Katolik Musi Charitas, Universitas Sriwijaya, Universitas Multi Data Palembang, Universitas PGRI Palembang, Sekolah Tinggi Ilmu Ekonomi AKUBANK Mulia Darma Pratama, Sekolah Tinggi Ilmu Ekonomi Pariwisata Indonesia (STIEPARI), Visayas State University, ESIC University, University of Groningen, and EnglishScore.

International scholarly engagement was further reflected in research collaboration involving academic contributors from Brazil. Institutional representation was documented through conference registration records, keynote speaker profiles, and submitted research manuscripts, with affiliations subject to final verification.

Scientific Program at a Glance

The scientific program was conducted over two days, comprising international keynote addresses and parallel research presentations. Five keynote speakers contributed to the first

day's program, while the second day featured research presentations organized across five thematic rooms.

Date	*Programme Element*	*Documented Scale*
19 October 2026	International Keynote Sessions	5 keynote speakers representing 5 countries
20 October 2026	Parallel Research Sessions	5 thematic rooms with 47 scheduled presentations and 2 additional international coauthored papers
Total	**Scientific Contributions**	**5 keynote addresses and 49 research papers included in the program book**

The 49 research papers comprise 47 presentations listed in the original conference schedule and two additional internationally coauthored manuscripts incorporated into Room 2. The additional manuscripts are included in the abstract collection without independently verified presentation times.

02 KEYNOTE SPEAKERS

FIVE ADDRESSES / FIVE NATIONAL AFFILIATIONS / MONDAY, 19 OCTOBER

The UKMC International Conference 2026 featured five distinguished keynote speakers representing academic and professional institutions across five countries. The keynote sessions brought together interdisciplinary perspectives on artificial intelligence, digital transformation, healthcare innovation, education, and sustainable development. Each speaker contributed specialized expertise, professional experience, and scholarly insights to discussions addressing contemporary challenges and opportunities for resilient societies.





Joel Rey U. Acob, DNS

Visayas State University, Philippines

KEYNOTE ADDRESS

Healthcare Systems and Digital Innovations

Speaker biography

Dr. Joel Rey U. Acob is a distinguished nursing scholar, academic leader, and quality assurance specialist at Visayas State University, Philippines, where he serves as Director of Quality Assurance. His professional career encompasses clinical nursing education, gerontology, healthcare management, institutional leadership, and quality assurance in higher education. His academic and administrative responsibilities have contributed to the development of professional nursing competencies, institutional accreditation practices, and continuous quality improvement in educational organizations.

His academic background combines advanced nursing qualifications with international research development experience. Alongside his teaching and leadership responsibilities, his professional engagement has extended to institutional assessment, accreditation, academic publishing, and quality management systems.

Education and Qualifications

- **2010:** Registered Nurse
- **2011:** Master of Arts in Nursing, specializing in Medical–Surgical Nursing
- **2019:** Doctor in Nursing Science
- **2021:** Postdoctoral Fellowship, Universitas Airlangga, Indonesia
- **2025:** Southeast Asian Researcher Career Development recipient

Selected Academic and Professional Appointments

- **2011–present:** Clinical Instructor, Visayas State University
- **2020–2022:** College Dean
- **May 2024–present:** Director of Quality Assurance, Visayas State University
- **2024–present:** Coordinating Focal Person for University Rankings and International Accreditations
- **2025–present:** Head of the VSU Program and Institutional Accreditation Office

Research Interests and Areas of Expertise

Dr. Acob's academic interests encompass caring science, gerontology, older-adult healthcare, nursing education, healthcare management, research methodology, institutional leadership, quality assurance, and accreditation. His expertise reflects an interdisciplinary approach connecting healthcare practice, professional education, organizational performance, and quality management.

Academic Contributions and Professional Service

His academic and professional contributions include journal editorial activities, scholarly peer review, accreditation evaluation through the Accrediting Agency of Chartered Colleges and Universities in the Philippines (AACCUP), and quality auditing aligned with ISO 9001:2015 standards. His engagement in institutional quality management further reflects an emphasis on evidence-based evaluation, academic accountability, and continuous organizational improvement.

Keynote Address Overview; Healthcare Systems and Digital Innovations

The keynote address explored the evolving relationship between healthcare systems and digital innovation, emphasizing the role of technological advancement in improving healthcare delivery, service quality, and institutional responsiveness. Particular attention was given to the opportunities created by digital transformation for strengthening healthcare processes, supporting informed decision-making, and improving the coordination of services across increasingly complex healthcare environments.

The discussion highlighted the importance of aligning technological innovation with professional competencies, organizational readiness, and established quality assurance principles. Digital healthcare transformation was considered not only a matter of technological adoption but also an organizational process requiring appropriate governance, workforce development, and continuous evaluation of service performance.

A further emphasis was placed on the development of resilient healthcare systems capable of responding to changing patient needs, operational pressures, and emerging technological challenges. The integration of digital solutions with patient-centred care, professional accountability, and sustainable institutional practices was presented as an important consideration for maintaining healthcare quality and service continuity.

Overall, the keynote provided an interdisciplinary perspective on how healthcare innovation, institutional quality management, and professional development can be aligned to support more adaptive, effective, and sustainable healthcare systems.



Jose-Maria Martinez-Gonzalo, Ph.D., FHEA

ESIC University, Spain

KEYNOTE ADDRESS

The Intelligent Future: Building Sustainable, Human-Centred and Resilient Societies in the Age of AI

Speaker biography

Dr. Jose-Maria Martinez-Gonzalo is an associate professor, academic program director, and researcher at ESIC University, Spain, with extensive professional experience spanning business and economics, corporate finance, sustainability, and international higher education. His academic and professional career integrates strategic financial management, multinational corporate leadership, and interdisciplinary research addressing sustainable organizational development and technological transformation.

Before assuming academic leadership responsibilities, Dr. Martinez-Gonzalo held senior financial and executive positions in multinational organizations across several industries. His experience in auditing, financial controlling, corporate finance, and organizational management provided a foundation for his subsequent academic work in business administration, sustainable investment, and responsible management. Since 2017, he has served as Program Director at ESIC University, contributing to academic program development, business education, and international academic collaboration.

His academic qualifications encompass business and economics, environmental management, taxation, and strategic management. This multidisciplinary background supports his scholarly interests in sustainable finance, digital transformation, corporate sustainability, and the integration of technological innovation into contemporary business and educational systems.

Education and Qualifications

- **1992:** Bachelor's Degree in Business and Economics, Universidad Complutense de Madrid
- **1996:** Master of Science in Environmental Management, Universidad Politécnica de Madrid
- **2000:** Master's in Tax Advisory (LLM), IE Business School
- **2002:** Master of Business Administration (MBA), IESE Business School, University of Navarra
- **2016:** Doctor of Philosophy (PhD) in Business and Economics, Universidad Complutense de Madrid

Selected Academic and Professional Appointments

- **1994–2000:** Audit Manager and Senior Audit Supervisor, EY
- **2000–2002:** Finance Director, Hydro Sistemas de Arquitectura
- **2002–2004:** Head of Financial Controlling for Europe, Prisma Iberica Medical Systems

- **2004–2008:** Chief Financial Officer, Procoluide Industrial
- **2009–2013:** Executive Controller and Director of Finance, Logistics and Corporate Services, Mundipharma Pharmaceuticals
- **2017–present:** Program Director, ESIC University
- **2023–2026:** International teaching and academic collaboration engagements involving ESIC Colombia, Kozminski University, and Toulouse Business School

Research Interests and Areas of Expertise
Dr. Martinez-Gonzalo's research interests encompass sustainable finance and investment, corporate sustainability, the Sustainable Development Goals (SDGs), international business education, artificial intelligence, digital transformation, financial literacy, diversity, and inclusion. His academic expertise reflects the integration of financial decision-making, responsible management, technological innovation, and sustainable organizational development.

Academic Contributions and Professional Service
Dr. Martinez-Gonzalo was recognized as a Fellow of Advance HE (FHEA) in 2022 and received accreditation for excellent teaching performance under the Docentia Programme in 2024. His academic contributions include scholarly publications addressing finance, entrepreneurship, sustainability, and business management, alongside international teaching activities and academic collaboration with higher education institutions. His combined experience in industry and academia supports the integration of professional practice, research-informed teaching, and interdisciplinary business education.

Keynote Address Overview; The Intelligent Future: Building Sustainable, Human-Centred and Resilient Societies in the Age of AI
The keynote address examined the transformative role of artificial intelligence in shaping the future of business, education, investment, and societal development. Particular attention was directed toward the ways intelligent technologies are reshaping organizational decision-making, operational processes, and innovation ecosystems. Artificial intelligence was considered not merely as a technological advancement but as a strategic capability with implications for economic competitiveness, institutional adaptability, and long-term sustainability.
The discussion emphasized the relationship between artificial intelligence and sustainable development, particularly the potential for intelligent systems to support resource optimization, evidence-informed investment decisions, and more efficient organizational practices. The integration of technological innovation with environmental, social, and governance considerations was identified as an important foundation for responsible business transformation. Such integration requires organizations to evaluate technological opportunities alongside their economic, environmental, and societal implications.

A further dimension of the keynote concerned the importance of maintaining a human-centred approach to artificial intelligence adoption. Responsible governance, ethical decision-making, digital competencies, and inclusive institutional practices were highlighted as essential considerations for ensuring that technological progress contributes to human well-being and equitable opportunities. The discussion also addressed the relevance of education and interdisciplinary collaboration in preparing professionals and institutions to respond effectively to the opportunities and challenges associated with intelligent technologies.

The keynote further explored organizational and societal resilience in an era characterized by rapid technological change and increasing uncertainty. Sustainable transformation was

presented as requiring a balance between technological capabilities, strategic leadership, institutional responsibility, and long-term value creation. Overall, the address offered an interdisciplinary perspective on how artificial intelligence can be aligned with responsible governance, sustainable investment, and human-centred innovation to support more adaptive, inclusive, and resilient societies.



Dr. Heri Setiawan, S.T., M.T., IPU., ASEAN Eng.

Universitas Katolik Musi Charitas, Indonesia

KEYNOTE ADDRESS

Human-Centered Industrial Ergonomics in the Age of AI: Designing Intelligent, Inclusive, and Sustainable Work Systems for Industry 5.0

Speaker biography

Dr. Heri Setiawan is an industrial engineering academic, ergonomics specialist, and experienced university administrator at Universitas Katolik Musi Charitas, Indonesia. His academic and professional expertise encompasses industrial ergonomics, human factors engineering, occupational health and safety, work-system design, and organizational leadership. His career reflects a sustained commitment to integrating engineering knowledge, human-centred workplace practices, and institutional development.

Since 1998, Dr. Setiawan has been actively engaged in industrial engineering education, contributing to teaching, academic program development, and professional competency advancement. His leadership experience includes serving as Head of the Industrial Engineering Department at STT Musi from 2004 to 2007, Chairman of STT Musi from 2007 to 2011, and Vice Rector I for Academic Affairs at Universitas Katolik Musi Charitas from 2015 to 2021. These appointments reflect extensive experience in academic governance, institutional management, and the development of engineering education.

His academic qualifications in industrial engineering and ergonomics provide a multidisciplinary foundation for examining the relationship between technological systems, human capabilities, workplace safety, and organizational performance. His professional activities also include engineering innovation, competency assessment, and engagement with professional associations.

Education and Qualifications

- **Undergraduate:** Bachelor of Engineering (S.T.) in Industrial Engineering, Universitas Atma Jaya Yogyakarta
- **Master's:** Master of Engineering (M.T.) in Industrial Engineering, Institut Teknologi Sepuluh Nopember
- **Doctoral:** Doctoral Degree (Dr.) in Ergonomics and Work Physiology, Universitas Udayana

Selected Academic and Professional Appointments

- **1998–present:** Lecturer in Industrial Engineering, Universitas Katolik Musi Charitas and its predecessor institutions
- **2004–2007:** Head of the Industrial Engineering Department, STT Musi
- **2007–2011:** Chairman, STT Musi
- **2015–2021:** Vice Rector I for Academic Affairs, Universitas Katolik Musi Charitas
- **2022–present:** Director, Innovation System Center, Industrial Engineering

- **2023–present:** Competency Assessor in Supply Chain Management, associated with the Indonesian Professional Certification Authority (BNSP), as documented in the speaker profile

Research Interests and Areas of Expertise

Dr. Setiawan's research and professional interests include industrial ergonomics, human factors engineering, occupational health and safety, human-centred work-system design, manufacturing systems, organizational leadership, and Industry 5.0. His expertise emphasizes the integration of human capabilities, technological advancement, and sustainable industrial operations to improve workplace safety, productivity, and employee well-being.

Academic Contributions and Professional Service

His academic contributions include authorship of industrial engineering books, participation in national and international engineering conferences, and professional engagement in engineering, ergonomics, and competency assessment activities. His involvement in academic leadership and industrial engineering development reflects a commitment to strengthening engineering education, promoting professional standards, and advancing human-centred approaches to industrial innovation.

Keynote Address Overview; Human-Centered Industrial Ergonomics in the Age of AI: Designing Intelligent, Inclusive, and Sustainable Work Systems for Industry 5.0

The keynote address examined the transformation of industrial work systems through the integration of artificial intelligence, advanced automation, and human-centred ergonomics. Particular attention was directed toward the transition from Industry 4.0 to Industry 5.0, in which technological efficiency is increasingly considered alongside human well-being, inclusivity, and environmental sustainability. Industrial ergonomics was positioned as an essential discipline for ensuring that intelligent technologies are designed to complement human capabilities rather than merely replace human involvement in production processes.

The discussion explored the potential applications of intelligent manufacturing technologies, including collaborative robots (*cobots*), digital twins, and artificial intelligence-enabled systems, in supporting safer and more adaptive working environments. These technologies were considered in relation to their capacity to improve task allocation, reduce physical and cognitive workload, support operational decision-making, and strengthen interactions between workers and automated systems. The importance of integrating ergonomic principles into technology design was emphasized to ensure that industrial innovation remains compatible with human physiological, psychological, and cognitive characteristics.

A further dimension of the keynote concerned the development of inclusive and sustainable work systems. Human-centred industrial transformation requires attention to workforce diversity, employee competencies, occupational safety, and the changing nature of work. The integration of intelligent technologies was therefore examined alongside organizational readiness, workforce adaptation, and the need to maintain worker dignity and meaningful human participation. Ergonomic design was highlighted as a foundation for balancing technological advancement with employee health, operational effectiveness, and long-term organizational sustainability.

The keynote also considered the strategic implications of Industry 5.0 for industrial organizations and engineering education. The development of intelligent and resilient production systems requires interdisciplinary collaboration among engineers, technology developers, organizational leaders, and human factors specialists. Overall, the address provided a perspective on how artificial intelligence and industrial ergonomics can be integrated to

support productive, inclusive, safe, and sustainable work systems, reinforcing the principle that technological progress should advance both organizational performance and human well-being.



Benjamin (Ben) Cook

EnglishScore, United Kingdom

KEYNOTE ADDRESS

AI in Language Assessment: From Human Judgement to Automated Scoring

Speaker biography

Benjamin (Ben) Cook is a language assessment and educational technology specialist with extensive professional experience in English language teaching, assessment development, test design, and digital scoring systems. Since October 2021, he has served as Senior Manager, Assessment Development at EnglishScore, London, United Kingdom, contributing to the development and quality assurance of English language assessment systems.

His professional career spans language education, educational technology, communication assessment, and international testing operations. His earlier experience at the British Council in Oman involved English language training, information technology, and the coordination of digital learning initiatives. Subsequent appointments at Future Perfect in Manila provided experience in communication assessment, implementation management, and assessment quality assurance.

Before joining EnglishScore, Cook held assessment development and management positions at Pearson, where his responsibilities included English language assessment and the development of testing systems. His combined experience in teaching, assessment operations, and educational technology provides a foundation for examining how artificial intelligence can be incorporated into language testing while maintaining established standards of measurement quality and professional accountability.

Education and Qualifications

- **1999–2003:** Bachelor of Arts in Hausa and Development Studies, SOAS, University of London
- **2003:** CELTA / CertTESOL, Language Link, London
- **2008–2012:** Master of Arts in Educational Technology and Teaching English to Speakers of Other Languages (TESOL), University of Manchester

Selected Academic and Professional Appointments

- **2006–2013:** English Trainer, IT Officer, and ICT Coordinator, British Council, Oman
- **2013–2015:** Senior Communication Advisor, Future Perfect, Manila
- **2015–2018:** Head of Quality and Implementation, Future Perfect
- **2018–2021:** English Assessment Manager, Pearson
- **April–September 2021:** Senior Manager, Assessment Development, Pearson
- **October 2021–present:** Senior Manager, Assessment Development, EnglishScore

Research Interests and Areas of Expertise

Cook's areas of professional expertise include language testing and assessment, test specification development, automated scoring, assessment validity and reliability, educational

technology, digital test design, item writing, and assessment quality assurance. His professional interests particularly concern the integration of technological innovation with established principles of language measurement, fairness, and assessment effectiveness.

Academic Contributions and Professional Service

His professional contributions include experience as an IELTS speaking and writing examiner, involvement in BUPLAS assessment activities, and participation in professional conferences addressing language education and assessment. His CV documents presentations at international forums, including AsiaTEFL and ILACE, reflecting engagement with developments in language testing, assessment practices, and educational technology.

Through professional appointments in international education and assessment organizations, Cook has contributed to the development, implementation, and quality management of language assessment practices across different educational and professional settings.

Keynote Address Overview; AI in Language Assessment: From Human Judgement to Automated Scoring

The keynote address examined the transformation of language assessment through the increasing application of artificial intelligence and automated scoring technologies. Particular attention was directed toward the transition from conventional human-based evaluation to digitally supported assessment systems capable of processing language performance at scale. The discussion considered how technological developments are creating opportunities to improve assessment efficiency, consistency, accessibility, and the timely delivery of assessment results.

The presentation explored the implications of automated scoring for evaluating language proficiency, particularly in assessment tasks traditionally dependent on professional examiner judgement. Artificial intelligence-enabled assessment was considered in relation to its potential to support the evaluation of spoken and written language performance, reduce operational demands, and strengthen the scalability of testing services. At the same time, the distinction between computational scoring performance and meaningful measurement of language competence was emphasized as an important consideration in assessment design.

A central dimension of the keynote concerned the validity, reliability, and fairness of artificial intelligence-supported language assessment. The adoption of automated scoring systems requires careful evaluation of whether assessment outcomes accurately represent the intended language abilities and remain sufficiently consistent across different test takers and assessment conditions. Particular attention was given to the importance of identifying potential sources of measurement bias, maintaining transparency in scoring processes, and ensuring that technological efficiency does not compromise assessment quality or equitable treatment.

The keynote further considered the continuing importance of human expertise in the design, validation, monitoring, and interpretation of automated assessment systems. Rather than positioning artificial intelligence as a complete substitute for professional judgement, the discussion highlighted the value of integrating technological capabilities with human oversight and established assessment standards. Overall, the address provided a perspective on how artificial intelligence can contribute to more efficient and accessible language assessment while preserving the principles of validity, reliability, fairness, and responsible educational measurement.



Andrew Setiono, M.Sc.

University of Groningen, the Netherlands

KEYNOTE ADDRESS

To Be or Not to Be: An Account of Teachers' Job Design and Meaningful Work in the Era of AI

Speaker biography

Andrew Setiono is a doctoral researcher in organizational psychology at the University of Groningen, the Netherlands, whose academic work focuses on workplace relationships, relational work design, leadership, ageing at work, and employee well-being. His research examines how organizational structures, leadership practices, and the social characteristics of work influence interpersonal relationships, professional experiences, and meaningful engagement in organizational life.

His academic background combines psychological research with advanced methodological training in behavioral and social sciences. After completing his undergraduate education in psychology at Universitas Indonesia, he pursued a Research Master's degree in Behavioral and Social Sciences, specializing in Organizational Psychology, at the University of Groningen. Since 2024, he has undertaken doctoral research examining the development and maintenance of workplace friendships and the organizational conditions that support positive social relationships.

His academic experience includes research assistance, methodological consultation, undergraduate teaching, and scholarly peer review. Through these activities, his work contributes to understanding the psychological and relational dimensions of contemporary employment, particularly the ways work design and leadership can support employee well-being and meaningful professional relationships.

Education and Qualifications

- **2016–2020:** Bachelor's Degree in Psychology, Universitas Indonesia
- **2022–2024:** Research Master's Degree in Behavioral and Social Sciences, specializing in Organizational Psychology, University of Groningen
- **2024–present:** PhD Candidate in Organizational Psychology, University of Groningen

Selected Academic and Professional Appointments

- **2023:** Research Assistant, University of Groningen
- **2023–2024:** Staff Member, Methodology Shop, University of Groningen
- **2025–2026:** Undergraduate Teaching Contributions in Academic Skills and Research Practicum
- **2026:** Ad Hoc Reviewer, *Journal of Occupational and Organizational Psychology*

Research Interests and Areas of Expertise

Setiono's research interests encompass workplace friendships, interpersonal relationships at work, relational job design, leadership, employee and leader well-being, ageing in the workplace, and longitudinal work experiences. His scholarly interests particularly concern how

organizational environments and the design of work influence social connections, psychological well-being, and the experience of meaningful work.

Academic Contributions and Professional Service

His scholarly contributions include coauthorship of the article "Sample-Size Planning for Frequentist and Bayesian 2 × 2 Analysis-of-Variance Designs," published in *Advances in Methods and Practices in Psychological Science* (2026), DOI: https://doi.org/10.1177/25152459251398805.

His academic activities also include research presentations at conferences in work and organizational psychology, methodological support for research activities, and contributions to ongoing scholarly manuscripts. His involvement in undergraduate teaching and academic peer review further reflects engagement with research methodology, psychological science, and the development of academic knowledge.

Keynote Address Overview; To Be or Not to Be: An Account of Teachers' Job Design and Meaningful Work in the Era of AI

The keynote address examined the changing nature of teaching work in an era increasingly shaped by artificial intelligence. Particular attention was directed toward how intelligent technologies may influence teachers' professional responsibilities, task structures, decision-making autonomy, and perceptions of meaningful work. The discussion considered the implications of artificial intelligence for educational practices, emphasizing that technological advancement may alter not only how teaching activities are performed but also how professional identity and occupational purpose are experienced.

The presentation explored the relationship between artificial intelligence and job design, particularly the redistribution of instructional, administrative, and evaluative responsibilities. AI-enabled technologies offer opportunities to support lesson preparation, learning assistance, assessment activities, and routine administrative processes. However, the integration of such technologies also raises questions concerning professional autonomy, skill utilization, task significance, and the extent to which teachers retain meaningful control over their work. These considerations highlight the importance of designing technology-supported educational environments that preserve the psychological characteristics associated with meaningful employment.

A further dimension of the keynote concerned the relational nature of teaching and the implications of artificial intelligence for teacher–student interactions. Teaching involves more than the transmission of knowledge, encompassing interpersonal communication, emotional engagement, professional judgement, and the development of supportive learning relationships. The increasing involvement of intelligent technologies in educational interactions therefore requires careful consideration of how human connection, trust, and pedagogical responsibility can be maintained. From an organizational psychology perspective, the quality of workplace and educational relationships remains relevant to professional well-being and the experience of meaningful work.

The keynote also considered the implications of technological transformation for educational leadership and institutional work design. The sustainable integration of artificial intelligence requires attention to teachers' competencies, professional development, psychological well-being, and participation in decisions concerning technological adoption. Rather than treating artificial intelligence solely as a means of increasing productivity, the discussion highlighted the

importance of aligning technological capabilities with human-centred educational objectives. Overall, the address provided an organizational psychology perspective on how teaching work can be redesigned to accommodate artificial intelligence while preserving professional autonomy, meaningful interpersonal relationships, and the fundamental human value of education.

03 CONFERENCE PROGRAMME

OFFICIAL RUNDOWN / RESPONSIBILITIES / SESSION ASSIGNMENTS

Conference Programme

Day 1 — Monday, 19 October 2026

MAIN ZOOM ROOM
13.00–16.50 WIB
MASTER OF CEREMONIES: Susana Wijiarti, S.Pd., M.Li. / Sr. M. Nicoline FCh
HOST: Yohanes Heri Pranoto

TIME	*PROGRAMME / KEYNOTE*	*SPEAKER / MODERATOR / PIC*
13:00–13:05	Opening prayer	Dr. Florentinus Heru Ismadi, S.S., M.M.
13:05–13:10	Indonesia Raya (national anthem)	MC / technical host
13:10–13:12	Mars UKMC (university anthem)	MC / technical host
13:12–13:25	Welcome address and official opening	Committee representative / Rector of UKMC
13:25–13:30	Introduction to keynote programme	Sr. M. Nicoline FCh, M.Li.
13:30–14:05	KEYNOTE 01 · Healthcare Systems and Digital Innovations	Prof. Joel Rey Ugsang Acob / Moderator: Anselmus Inharjanto SCJ, M.Phil.
14:05–14:10	Transition and technical checks	MC / technical host
14:10–14:45	KEYNOTE 02 · The Intelligent Future: Building Sustainable, Human-Centred and Resilient Societies in the Age of AI	Jose-Maria Martinez-Gonzalo, Ph.D., FHEA / Moderator: Dr. Feby Astrid Kesaulya, S.E., M.Sc., Ak.
14:45–14:50	Transition and technical checks	MC / technical host
14:50–15:25	KEYNOTE 03 · Human-Centered Industrial Ergonomics in the Age of AI	Dr. Heri Setiawan, S.T., M.T., IPU / Moderator: Anastasia Ronauli Hasibuan, M.Pd.
15:25–15:30	Transition and technical checks	MC / technical host
15:30–16:05	KEYNOTE 04 · AI in Language Assessment: From Human Judgement to Automated Scoring	Benjamin Cook / Moderator: Yohanes Heri Pranoto, M.Pd.
16:05–16:10	Transition and technical checks	MC / technical host

TIME	PROGRAMME / KEYNOTE	SPEAKER / MODERATOR / PIC
16:10–16:45	KEYNOTE 05 · To Be or Not to Be: Teachers' Job Design and Meaningful Work in the Era of AI	Andrew Setiono, M.Sc. / Moderator: Dr. Feby Astrid Kesaulya, S.E., M.Sc., Ak.
16:45–16:50	Closing remarks and prayer	MC / Dr. Florentinus Heru Ismadi, S.S., M.M.

Day 2 — Tuesday, 20 October 2026

FIVE PARALLEL ZOOM ROOMS
08.00–11.30 WIB
MAIN ROOM MC: Amelia Putri
TECHNICAL HOST: Yohanes Heri Pranoto

TIME	ACTIVITY	LOCATION / RESPONSIBILITY
08:00–08:20	Main-room opening: prayer, Indonesia Raya, Mars UKMC, welcome and technical briefing	Main room / MC: Amelia Putri
08:20–08:30	Move to assigned rooms; microphone, screen-sharing and attendance checks	Five parallel rooms
08:30–09:30	Parallel paper presentations — Session 1	Rooms 1–5; first five listed papers per room
09:30–10:00	Transition, break and room preparation	Moderators and assigned hosts
10:00–11:00	Parallel paper presentations — Session 2	Rooms 1–5; remaining listed papers per room
11:00–11:30	Closing announcements and prayer	MC: Amelia Putri; closing prayer: A. Bayu Adi Pratama B.

Room Directory And Moderators

ROOM	*SCIENTIFIC TRACK*	*MODERATOR / HOST*
1	Advanced Technology, Digital Systems, and Education Innovation	Moderator: A. Bayu Adi Pratama B., S.T., M.URP Host: Zebe Khemako Vijito
2	Sustainable Business, Circular Economy, and Education Innovation	Moderator: Yohanes Heri Pranoto, M.Pd. Host: Amelia Putri
3	Healthcare Systems and Digital Health Innovation / Sustainable Business	Moderator: Ns. Vincensius Surani, S.Kep., Ns., M.Kep. Host: Sandrina Budi Yohanes
4	Education Innovation and Technology, Healthcare Systems, and Sustainable Business	Moderator: Evi Yuniarti, S.ST., M.Kes Host: Anya Katerin Lerika Dhuasti
5	Education Innovation, Human Development, and Sustainable Business	Moderator: Anselmus Inharjanto, SCJ, M.Phil. Host: Fauziah Kopsah

Presentation Order By Room

The following schedule reproduces the presenter sequence as provided in the updated Day 2 programme. The official schedule specifies session blocks rather than individual paper start times. An additional two coauthored papers are included in Room 2's abstract collection without an assigned time slot.

Room 1 · Advanced Technology, Digital Systems, and Education Innovation

NO.	*SESSION*	*PAPER TITLE*	*SCHEDULED PRESENTER(S)*
01	SESSION 1	Understanding AI Dependency In Student Learning And Practical Strategies For Sustainable Learning	Janed Threeandi, Greacela Phayla Callula, Anastasia Ronauli H.
02	SESSION 1	Strengthening ASEAN Tourism Competitiveness through Sustainable and Digital Infrastructure: A Comparative Framework for Resilient Destination Development	I Gusti Made Juniarta, Cing Cing Wahyuni, Pungky Dios Purnomo, Apri Kuntariningsih
03	SESSION 1	Integrating Physical and Digital Infrastructure for Sustainable Tourism and Destination Competitiveness	Diane Laurentia, Lidya Fitri Yani, Sri Hartanti Yulianingsih, Apri Kuntariningsih
04	SESSION 1	Garch-Based Sector Rotation On The Indonesia Stock Exchange: A Systematic Review	Vincent
05	SESSION 1	Integrating IT Governance Frameworks Into Self-Assessment Instrument Development: A Systematic Literature Review	Surya Andita Nasution
06	SESSION 2	When Students Ask AI First: Rethinking the Role of Lecturers in Higher Education in the Age of Artificial Intelligence	Gregorius Jovan Chandra
07	SESSION 2	Strategic SaaS Legal Tech Alignment and Shadow AI Mitigation: A Systematic Review	Rama Rivansyah

NO.	SESSION	PAPER TITLE	SCHEDULED PRESENTER(S)
08	SESSION 2	Virtual Account-Based Digitalization of Local Tax and Retribution Collection in Indonesia: A Systematic Literature Review	Sandi Perwira
09	SESSION 2	The Benefits of Short Form Digital Content (Tiktok and Reels) Engagement on EFL Students' Pronunciation Accuracy: A Systematic Literature Review	Kurnia Oktavia Putri Kumendong
10	SESSION 2	Macroergonomic Analysis Of Tasks And Workload Of J&T Cargo Krueng Geukueh Motorcycle Couriers	Diana Khairani Sofyan

Room 2 · Sustainable Business, Circular Economy, and Education Innovation

NO.	SESSION	PAPER TITLE	SCHEDULED PRESENTER(S)
01	SESSION 1	Beyond Physical Boundaries: A Comparative Analysis of Sustainable and Digital Tourism Infrastructure in Indonesia, Thailand, and Singapore	Khairil Anwar, Muhamad Azhari, Ovia Widayanti Pratamaningtyas, Wening Damayanti, Apri Kuntariningsih
02	SESSION 1	Strategic Planning and Development Phases Based on Priorities and Resource Availability (A Comparative Study with Singapore's Tourism Infrastructure Development)	Galih Gumilar, Fathimah Azzahr, Bayu Irwansyah, Apri Kuntariningsih
03	SESSION 1	Regenerative Tourism Infrastructure Management: Building Resilient and Inclusive Destinations in ASEAN	Abdul Ghofur, Hendri Kurniawan, Ahmad Mutohar, Apri Kuntariningsih
04	SESSION 1	Impact of Full Call Auction Policy Revision on Stock Liquidity and Volatility: A Comparative Study	Della Theresia
05	SESSION 1	Cobit 2019 DSS Best Practices For Sustainable Point-Of-Sale Systems: A Systematic Review	Alfredo Valentino Setiawan

NO.	SESSION	PAPER TITLE	SCHEDULED PRESENTER(S)
06	SESSION 2	From Brain Rot to Learning Disruption: The Impact of Social Media Content on Students' Focus and English Language Learning	Amelia Putri; Agnes Septi Rahmawati; Susana Wijiarti
07	SESSION 2	Sociolinguistic Dynamics Of Code-Switching And Code-Mixing In Efl Classroom Interactions: A Literature Study	Syakya Larasati
08	SESSION 2	Two-Tense Framework for Learning English Tense Formulas: A One-Group Pretest–Posttest Study	Yohanes Heri Pranoto
09	SESSION 2	Ecological Literacy in EFL Reading Materials: A Content-Based Evaluation of Skillful Reading and Writing	Yohanes Heri Pranoto

Room 3 · Healthcare Systems and Digital Health Innovation / Sustainable Business

NO.	SESSION	PAPER TITLE	SCHEDULED PRESENTER(S)
01	SESSION 1	Relationship between Nutritional Status and Menstrual Cycle with Hemoglobin Levels in Adolescent Girls	Erike Septa Prautami
02	SESSION 1	The Difference in Effectiveness of Warm Water Soaks and Salt Water Soaks on Blood Pressure in Hypertension Sufferers	Sabiela
03	SESSION 1	Toward Sustainable and Digitally Integrated Tourism Infrastructure in ASEAN: A Comparative Analysis of Sustainability, Digital Transformation, and Destination Competitiveness with Borobudur as the Anchor Case	Resma Dwi Lestari
04	SESSION 1	Revitalizing Heritage Destinations: A Comparative Analysis of Sustainable Tourism Infrastructure and Digital Transformation in Kota Lama Semarang and Melaka Historic City	Lilis Mawarida
05	SESSION 1	The Relationship Between Gadget Use Intensity and Student Sleep Quality	Yayan Dewi Berianti

NO.	SESSION	PAPER TITLE	SCHEDULED PRESENTER(S)
06	SESSION 2	Flash Sale Discounts and PayLater Features as Determinants of Impulsive Buying: Evidence from Palembang University Students	Rowan Anderson
07	SESSION 2	The Influence of Social Media Promotion and Product Quality on Consumer Purchase Intention at Kopi Kenangan in Palembang	Cindy Ivana Wijaya
08	SESSION 2	Fostering Student Motivation and Engagement through English Songs: A Review of Potentials and Challenges	Elisabeth G. Sinaga
09	SESSION 2	The Relationship Between Education Level and Public Knowledge Regarding Heart Attacks	Vincensius Surani, Lilik Pranata, Bangun Dwi Hardika

Room 4 · Education Innovation and Technology, Healthcare Systems, and Sustainable Business

NO.	SESSION	PAPER TITLE	SCHEDULED PRESENTER(S)
01	SESSION 1	Exploring the Potential of English Podcasts for English Idiomatic Language Learning	Anya Katerin Lerika Dhuasti, Yoanes Cornilita Sahidangan, Titus Angga Restuaji
02	SESSION 1	Cognitive Benefits of Chess Engagement: Impact on Executive Functions and Problem-Solving Abilities	M Dimas Mahaputra & Yohanes Alvito Winitra
03	SESSION 1	Case Study On Academic Tutoring: Writing Learning Difficulties Among Second-Grade Elementary School Students	Ghea Cinta Mariccenta
04	SESSION 1	The Relationship Between Healthcare Professionals' Service Ethics And Psychological Well-Being Among Older Adults	Teresia Sri Sumiyati, Lilik Pranata, Elisabeth Erly Frida Hasugian

NO.	SESSION	PAPER TITLE	SCHEDULED PRESENTER(S)
05	SESSION 1	The Relationship Between Random Snacking Habits and Incidences of Diarrhea in Elementary School Kids	Regina Vera Enjelina Kewa Notan
06	SESSION 2	Retrieval-Augmented Generation for HR Information Systems: A Systematic Review of Governance, Integration, and User Task Performance	Sabit Huraira
07	SESSION 2	The Relationship Between Fast Food Consumption Frequency and Menstrual Physical Symptoms Among Adolescent Girls	Brigita Astrid Yurike
08	SESSION 2	The Influence Of Promotion, Ease Of Use, And Price Perception On Purchasing Decisions, With Consumer Trust As A Mediating Variable: A Study Of UMKM Kemplang Crackers On The Shopee Marketplace	David Antonio
09	SESSION 2	The Impact of Self-Confidence on Students' Productive Skills: A Systematic Literature Review	Shania Nurika G

Room 5 · Education Innovation, Human Development, and Sustainable Business

NO.	SESSION	PAPER TITLE	SCHEDULED PRESENTER(S)
01	SESSION 1	Ethnodigital-AI Learning Model Based on Local Wisdom: Systematic Literature Review	Agnes Fibriana Kurniawati
02	SESSION 1	Students' Self-Confidence To Foster Their Participation In English Speaking Activities At School	Winda Febrianti Nadeak
03	SESSION 1	From Grammar Anxiety To Joyful Learning: Rethinking English Grammar Education Through Deep Learning Approaches	Kesiah Olivia Fransiska
04	SESSION 1	The Relevance Of Descriptive Vocabulary In Novels To English Learning	Tracy Maria Lauren Sidabutar

NO.	SESSION	PAPER TITLE	SCHEDULED PRESENTER(S)
05	SESSION 1	Effort To Overcome Difficulties In Learning Math Through Individual Guidance For Elementary School Students	Thatet Dirgantara
06	SESSION 2	Implementation Of The Storytelling Method In Primary Education: A Literature Review	Tresiana Sari Diah Utami
07	SESSION 2	The Effects Of Store Atmosphere And Price On Purchasing Decisions Through Customer Satisfaction In Palembang Coffee Shops	Maria Bertilla Krisanty Utomo
08	SESSION 2	Public Speaking Competence And Personal Brand Construction In Non-Formal Education: A Qualitative Literature Study	Anastasia Ronauli Hasibuan
09	SESSION 2	The Influence Of Cultural Values And Social Identity On Palembang Traditional Food Consumer Loyalty Through Consumer Experience	Ellya Chelsea Ekaresti, Agnesia Estiara Putri
10	SESSION 2	Planning And Control Of Inclusive Education At The Elementary School Level: A Literature Review	Anselmus Inharjanto

Closing Remarks and Acknowledgements

The UKMC International Conference 2026, held virtually on 19–20 October 2026 under the theme *"The Intelligent Future: Interdisciplinary AI-Driven Innovation in Technology, Business, Healthcare, and Education for Sustainable and Resilient Societies,"* provided an international academic forum for the exchange of knowledge, research findings, and interdisciplinary perspectives.

Through five keynote addresses and research contributions spanning technology, business, healthcare, education, and related disciplines, the conference highlighted the importance of responsible innovation, human-centred technological advancement, sustainability, and institutional resilience. The scientific discussions reinforced the value of interdisciplinary approaches in addressing emerging challenges and advancing knowledge for societal development.

Sincere appreciation is extended to all keynote speakers, researchers, presenters, participants, moderators, reviewers, and members of the organizing committee whose contributions supported the successful implementation of the conference. Special recognition is also given to the participating institutions and international academic collaborators for their commitment to scholarly exchange and the advancement of research partnerships.

It is hoped that the ideas, findings, and perspectives presented throughout the conference will inspire further research, strengthen international academic networks, and encourage meaningful collaboration across disciplines and institutions. Beyond the exchange of scientific knowledge, the conference is expected to contribute to the continued development of responsible, inclusive, and sustainable innovation.

Universitas Katolik Musi Charitas remains committed to promoting research excellence, international academic engagement, and the dissemination of knowledge that contributes to sustainable and resilient societies.

Advancing Knowledge, Inspiring Innovation, Strengthening Global Collaboration.

UKMC International Conference 2026

Universitas Katolik Musi Charitas

Palembang, Indonesia

19–20 October 2026

UKMC INTERNATIONAL CONFERENCE

2026

ABOUT THE CONFERENCE

UKMC International Conference 2026 is an international academic forum organized by Universitas Katolik Musi Charitas (UKMC), Indonesia, bringing together scholars, researchers, practitioners, and professionals to exchange knowledge, research findings, and innovative perspectives across disciplines.

Under the theme “The Intelligent Future: Interdisciplinary AI-Driven Innovation in Technology, Business, Healthcare, and Education for Sustainable and Resilient Societies,” the conference explores the transformative potential of artificial intelligence in addressing complex global challenges and advancing sustainable development.

By connecting technology, business, healthcare, and education, the conference promotes interdisciplinary dialogue, responsible innovation, and international collaboration. It provides a platform for sharing emerging research, strengthening academic networks, and exploring practical solutions that contribute to intelligent, inclusive, sustainable, and resilient societies.

This Conference Book reflects the spirit of international scholarly exchange and UKMC's commitment to advancing research, innovation, and meaningful academic collaboration.

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