



INTERNATIONAL CONFERENCE ON SUSTAINABLE KNOWLEDGE SYSTEMS

(ICSKS 2025)

Organized by Karatina University Library, Kenya and Optimistic Concept Services, Netherlands.

Conference Programme

Karatina University, Kenya. Monday 14th – Wednesday 16th April, 2025

























Conference Sponsors

























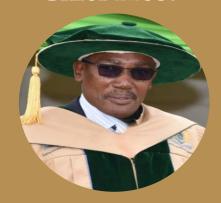








Chief Host



Professor Linus Muthuri Gitonga (PhD, MSc, BEd Sc. Hons), Vice-Chancellor of Karatina University, is the chief host for the conference. A distinguished academic and leader, Prof. Gitonga holds a PhD, MSc, and Bachelor of Education in Science (Hons). His leadership at Karatina University is marked by a strong commitment to academic excellence, innovation, and advancing collaborative research and development.

https://karu.ac.ke/vice-chancellor/

Host



Dr. Everlyn Anduvare is the University Librarian and an Adjunct Lecturer of Information Literacy Skills at Karatina University, Kenya. She holds a PhD in Library Studies from the University of KwaZulu-Natal. Dr. Anduvare is also involved in research, publishing, peer reviewing, postgraduate supervision, mentorship, and community initiatives.

https://orcid.org/0000-0002-5613-0213













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Keynote Address Speaker



Professor Marlene Holmner

Topic: AI for a Sustainable Future: Advancing Information, Communication, and Libraries for Innovation, Access, and Ethics Across Disciplines.

Professor Marlene Holmner, an Associate Professor and Head of the Department of Information Science at the University of Pretoria, South Africa, brings extensive expertise in Information Science to her keynote address. Holding a DPhil in Information Science, her work spans Information Ethics, Indigenous Knowledge, ICT for Development, the Information and Knowledge Society, Institutional Repositories, Digitization, Mobile Technologies, and Curriculum Development.

Widely published in journals such as *South African Journal of Libraries and Information Science*, *Information Development*, and *Library Hi-Tech*, Dr. Holmner is also a regular speaker at major conferences, including ProLISSA, IFLA, ALA, iConference, and SIG GlobDev. She has held roles as program chair and co-chair at various workshops, showcasing her leadership in the field.

In her teaching at the University of Pretoria, Dr. Holmner guides both undergraduate and postgraduate students and supervises numerous Master's and PhD candidates. A Microsoft Certified Professional, she actively contributes to professional organizations like the Library and Information Association of South Africa (LIASA), the African Centre of Excellence for Information Ethics (ACEIE), and the Association for Information Science and Technology (ASSIST).

https://orcid.org/0000-0003-1021-7601









ALL CONFERENCE ALERT

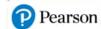














Keynote Speakers

1. Professor Peter Gatiti

- o **Title**: Associate Vice Provost and University Librarian, Aga Khan University, Nairobi, Kenya, and the Chair, Kenya Library Association (KLA).
- o **Topic**: Ethical AI and Responsible Innovation

2. Marco van Hout

- Title: Creative Director and Co-founder, Digital Society School, Amsterdam University of Applied Sciences, Netherlands
- **Topic**: AI for Digital Transformation and Sustainable Innovation

3. Honorable Sagir Musa Ahmed

- Title: Commissioner of Information, Youth, Sport, and Culture, Jigawa State, Nigeria
- **Topic**: AI-Driven Knowledge Discovery in Libraries and Information Centers

4. Dr. Carolyne Nyaboke Musembe

- Title: Lecturer and Researcher, Technical University of Kenya, Nairobi, Kenya
- Topic: AI Applications in Archives and Records Management

5. John Mwazemba

- Title: Regional Director for East Africa, Oxford University Press
- Topic: Human-AI Collaboration in Publishing, Creative, and Cultural Industries

6. Professor Kellen Kiambati

- Title: Director, Resource Mobilization and International Programmes
- Topic: AI-Enhanced Research and Interdisciplinary Collaboration

7. Dr. Sola Owolabi

- Title: Lecturer and Librarian, Bells University of Technology; Researcher, Digital Society School, Amsterdam
- Topic: AI in Bibliotherapy and Cinematherapy

8. Brenda Betty Kiema

- Title: Disability Inclusion Officer, Tangaza University, Nairobi, Kenya
- Topic: AI for Accessibility and Personalized Engagement

9. Damilare Oyedele

- **Title**: Co-founder and Chief Executive, Library Aid Africa
- Topic: AI for Sustainable Development Goals (SDGs) and Societal Impact

10. Joel Onditi

Title: CEO and President of Pathways Technologies LTD

Topic: AI in Education and Learning System | AI in Digital Transformation











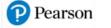














Conference Planning Committee



Chair ICSKS 2025

Dr. A.J. Alonge, a distinguished academic and practitioner, is a Visiting Scholar at Karatina University in Kenya, actively engaged in teaching and research initiatives that explore the intersection of technology and sustainability in library and information science. He also serves as a lecturer at the University of Ibadan, Nigeria, a Digital Transformation Researcher at the Amsterdam University of Applied Sciences, and the Consultant Librarian and Project Director for the Afrelib Green Library Initiative in the UK.

https://orcid.org/0000-0001-6014-3271

Other Members

- Dr. Everlyn Anduvare, University Librarian, Karatina University Host & Co-Chair
- Dr. Sola Owolabi, Bells University/OCS Academy Nigeria Member
- Bolu Josh, OCS Academy Netherlands Member
- Dr. Carolyne Nyaboke, Lecturer, Technical University of Kenya Member
- Mrs Oyetoun Alonge OCS Academy Netherlands Member
- Ms. Jackline Wanjugu, Senior Library Assistant Karatina University Secretariat
- Ms. Mary Mwaniki, Senior Library Assistant Karatina University Secretariat









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Conference Theme

AI for a Sustainable Future Advancing Information, Communication, and Libraries for Innovation, Access, and Ethics Across Disciplines

Conference Objectives

- Examine AI Applications Across Disciplines: Discover how AI transforms libraries, communication, healthcare, environmental studies, and legal systems, enhancing knowledge sharing, research, and decision-making.
- Advance AI Literacy through Practical Workshops: Engage in hands-on workshops with AI tools relevant to fields such as sustainable development, health information, and media.
- Promote Ethical and Responsible AI Use: Address ethical considerations in AI, including privacy, bias, and accountability, to encourage responsible practices aligned with societal and SDG goals.
- Present Global Case Studies and Best Practices: Showcase innovative AI applications
 from diverse regions, promoting collaboration on AI-driven projects with sustainable
 development impact.
- **Develop Strategic AI Frameworks**: Guide participants in crafting AI strategies tailored to their fields, promote sustainable AI adoption in healthcare, environmental studies, law, communication, and beyond.

Sub Themes

- 1. AI for Sustainable Development Goals (SDGs) and Societal Impact
- 2. AI-Driven Knowledge Discovery in Libraries and Information Centers
- 3. AI in Education and Learning Systems
- 4. AI in Communication, Journalism, and Media
- 5. Ethical AI and Responsible Innovation
- 6. AI for Environmental Monitoring and Climate Action
- 7. Human-AI Collaboration in Publishing, Creative, and Cultural Industries
- 8. AI in Legal Systems, Policy, and Governance
- 9. AI for Digital Transformation and Sustainable Innovation
- 10. AI-Enhanced Research and Interdisciplinary Collaboration
- 11. AI for Accessibility and Personalized Engagement
- 12. AI and Multimedia Innovations
- 13. AI in Public Health
- 14. AI in Bibliotherapy and Cinematherapy
- 15. AI for Green Libraries and Sustainable Practices
- 16. AI Applications in Archives and Records Management













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DAY 1: MONDAY 14th APRIL, 2025

Time		Activity			Facilitator
07.30 am - 08	8.30 am	Arrival and registration			Secretariat
		Master of Ceremony			Dr. Victor Ntabo
09.00 am - 09.05 am		Prayer			Dr. Titus Githaiga
09.05 am - 09	7		University Choir		
09.15 am - 09	9.20 am	Introduction of delegates and			Dr. John Alonge &
			O		Dr. Everlyn Anduvare
09.20 am - 09	9.25 am	Remarks			Dr. Everlyn Anduvare
		Prof. Richard Kiai			·
		Ag. DVC-PFA, Karatina Unive	ersity		
09.25 am - 09	9.30 am	Opening remarks			Prof. Richard Kiai
		Prof. Franklin Wabwoba,			
00.00	0.15	DVC-ARSA, Karatina Universi	ity		
09.30 am - 09	9.45 am	Official opening address			Prof. Franklin Wabwoba,
		Prof. Linus Gitonga,	•,		DVC-ARSA, KarU
09.45 am -10	20	Vice Chancellor, Karatina Univer			Due f. Lineau Cita and
09.45 am -10).50 am	Keynote address: AI for a Sus Information, Communication			Prof. Linus Gitonga, Vice Chancellor, KarU
		and Ethics Across Disciplines		ion, Access,	vice Chancellor, Karo
		Prof. Marlene Holmner, University			
10.30 am -10) 45 am	Q & A Session	y 0j 17001101, 321		Dr. John Alonge
10.45 am -11		Photo session			Secretariat Secretariat
11.00 am -11.30 am		Health Break		Secretariat	
11.30 am -11		Pathway Technologies LTD -	- Becky Abrahams		MC
11.35 am -11.40 am		Journal of Visualised Experiments (JoVE) – Keisha Njenga		1	
11.40 am -12		Panel Discussion:			Moderator: Dr. John
	1	AI in Academia & Corporate			Alonge
		Panelists: Prof. Kellen Kiambati, Becky Abrahams, & Loren			
		Anduvare			
12.00 pm -12	2.15 pm	Q & A Session			
12.15 pm - 1	2.35 pm	Ethical AI and Responsible Innovation		Dr. Carolyne Nyaboke	
		Prof. Peter Gatiti			
12.35 pm -12	2.55 pm		ility and Personalized Engagement:		
			accessibility of digital libraries for users		
		with disabilities.			
10.77		Brenda Betty Kiema			_
12.55 pm – 0	01.00 pm	Q & A Session			
01.00 pm - 0	2.00 pm	Lunch Break			Secretariat
		1	Parallel Sessions		
	Session	A		Session B	
Time	Activity		Facilitator	Activity	
	AI for G	reen Libraries and	Session Chair:	Students W	Workshop:
		able Knowledge Practices	Dr. Oyemike Victor	Participants	
			Benson		owledge Ambassadors Club
				members.	
			_		air: Loren Anduvare
02.00 pm -		ng Artificial Intelligence for			AI GROUP
02.15 pm	sustainable collection development in academic libraries in Kenya. Dr. Hellen M. Ndegwa & Sally Chat himking				Fi to Society: Real AI Use
					sforming Africa & the World
			Moses V unc		di & Charles Osoro
Chepchire		1911		1	

02.15 pm –	Integration of Artificial Intelligence		Pearson Publishers
02.30 pm	(AI) in academic libraries for efficient		Allan Ouchi
1	information delivery services: A		
	literature review.		
	Peter Shibonje Burudi & Vincent Bob Kiilu		
02.30 pm -	Exploring the potential of AI-Driven		AI Use Cases
02.45 pm	sustainable practices in Nigerian		Mitchelle Akinyi -
02.43 pm			
	libraries: bridging the gap to green		Trainer, Pathways Technologies.
	innovations.		T . 1 .:
	Dr. Evelyn Nkechi Emeahara, Dr.		-Introduction
	Olalekan A. Awujoola & Mr. Oladimeji		.AI in Education .summary
	Simeon Ajayi		
02.45 pm –	Smarter and greener: AI-driven		-AI use cases in education and learning
03.00 pm	environmental sustainability, librarian		paths
	perspectives.		
	Dr. Diana Atuase		-Hands on demo with interactive
03.00 pm -	Sustainable practices for green libraries		Q & A
03.15 pm	powered by AI: A case study of IBB		
	University, Lapai, Niger State, Nigeria		
	Abubakar, Ndasaliu Usman & Jamilu		
	Yahaya Maipan-uku		
03.15 pm –	Q & A Session		
03.30 pm	20010000000		
00.00 pm	Session C		
	AI in Education and Learning	Session Chair:	
	Systems	Prof. Kellen Kiambati	
03.30 pm -	Rethinking Artificial Intelligence (AI)		
03.45 pm	applications in librarianship:		
03.43 pm	implications for library schools in		
	developing countries.		
	Oyemike Victor Benson, Angela Chinwe		
	Ighoejesi, Catherine Chinyere Eke &		
	Patience Chisa Njoku		
03.45 pm -	Bridging the gap between knowledge-		
04.00 pm	based and practical skill-oriented		
	education.		
	Dr. Charles Wahogo & Dr. Stephen Njoroge		
04.00 pm -	Fixing ethical concerns in use of		
04.15 pm	Artificial Intelligence in higher		
	education: The case of Karatina		
	University, Kenya		
	Prof. Johannes Njoka, Dr. Josephat Kagema,		
	& Githui, P.		
04.15 pm -	Assessing the influence of Artificial		
04.30 pm	Intelligence on academic integrity in		
	Computer Science education		
	Joshua Abah ABAH, Ubagu David		
	Terungwa, Taurayi Willard Chinaka		
04.30 pm -	Bridging the gap: How AI-driven		Group photo & Departure
	virtual classrooms can increase access		Group prioto & Departure
04.45 pm			
	to quality education in remote areas of		
	Nigeria.		
1	Hassan Shehu Ahmed		

04.45 pm -	The influence of AI on work attitudes		
05.00 pm	in knowledge-centric environment		
	Dr. Ekere Justina Ngozi & Haco-Obasi,		
	Faustina N		
05.00 pm -	Q & A Session		
05.15 pm			
05.15 pm -	Welcome & Networking Forum	Dr. John Alonge & Dr.	
06.30 pm		Everlyn Anduvare	

DAY 2: TUESDAY 15th APRIL, 2025

Time	Activity	Facilitator
08.00 am - 08.30 am	Arrival and registration	Secretariat
08.30 am - 08.40 am	Corporate Campus EA Ltd	MC
	Margaret Nyambura	
08.40 am - 08.50 am	Pearson Publishers	
	Allan Ouchi	
	Session D	
	AI-Enhanced Research and Interdisciplinary Collaboration	Session Chair: Dr. Everlyn
08.50 am – 09.15 am	Artificial intelligence in higher education: interaction as opposed to	Anduvare
	single-mindedness turns brains into minds.	
	Prof. Kellen Kiambati	
09.15 am – 09.30 am	Emerging trends in AI-driven biospectroscopy for early disease	
	detection	
	Dr. Irungu Githaiga	
09.30 am – 09.45 am	Approaches to using Artificial Intelligence and digital humanities in	
	remodeling library spaces.	
	Afline Awuor, Ashah Owano & Grace Wambui Kamau	
09.45 am – 10.00 am	Q & A Session	
10.00 am – 10.30 am	Health Break	Secretariat
	Session E	
10.30 am – 10.40 am	Africa Leadership University	MC
	Ann Wangui	
	AI for Digital Transformation and Sustainable Innovation	Session Chair: Dr. Charles
10.40 am - 10.55 am	AI for digital transformation and sustainable innovation	Wahogo
	Marco van Hout	
10.55 am - 11.10 am	Artificial intelligence in the transfer of tacit indigenous knowledge	
	of a bull as intangible cultural heritage among the Isukha	
	community, Kenya.	
	Elphas Muruli, Lilian Oyieke & Ashah Owano	
11.10 am – 11.25 am	Multi-crop disease classification using MobileNetV2: an AI-	
	Powered Detection App	
	Thomas Kinyanjui Njoroge, Dr. Kevin Mugoye Sindu & Dr. Rachael N.	
	Kibuku	
11.25 am – 11.40 am	Deep learning and IoT sensors for real-time crop disease detection	
	and field condition monitoring	
	Thomas Kinyanjui Njoroge, Dr. Kevin Mugoye Sindu & Dr. Rachael N.	
	Kibuku	
11.40 am – 11.55 pm	Multi-Crop leaf disease classification using MobileNetV2: An AI-	
	Powered Detection Model	
	Thomas Kinyanjui Njoroge, Peter N. Njuguna, Vancy J. Kebut, Vincent K.	

11.55 pm – 12.10 pm	Q & A Session	
	Session F	
12.10 pm – 12.30 pm	AI in Bibliotherapy and Cinematherapy Dr. Sola Owolabi	Session Chair: Dr. John Alonge
12.30 pm – 12.45 pm	Machine learning in biospectroscopy: challenges and solutions Dr. Irungu Githaiga	
12.45 pm – 01.00 pm	Q & A Session	
01.00 pm – 02.00 pm	Lunch Break	Secretariat
	Session G	
	AI Applications in Archives and Records Management	Session Chair:
02.00 pm - 02.20 pm	AI applications in archives and records management Dr. Carolyn Nyaboke Musembe	Miriam Ndung'u
02.20 pm - 02.35 pm	AI application in archives and records management: A case study of the public service records department, Kampala, Uganda Nanyanzi Mary	
02.35 pm - 02.50 pm	Exploring the integration of artificial intelligence for enhanced records management and archival practices in academic libraries in rivers state, Nigeria. Egbo, Samuel Oghenerukevwe & Ukaeghu, Bernadette Chinasa Nkeiruka	
02.50 pm - 03.05 pm	Leveraging artificial intelligence for enhanced records and archives management in the digital age Kennedy M. Musembi, Dr. Carolyne N. Musembe & Naftal Chweya	
03.05 pm - 03.20 pm	Application of AI technology in the records management systems of the National Archives of Nigeria, Ibadan Ese Eunice Anenene	
03.20 pm - 03.35 pm	Integration of AI in Records Management at the National Social Security Fund-Uganda Angellah Chandia	
03.35 pm – 03.50 pm	Q & A Session	
03.50 pm – 04.20 pm	Health Break	Secretariat
	AI for Sustainable Development Goals (SDGs) and Societal	Session Chair:
	Impact	Dr. Carolyne Musembe
04.20 pm – 04.35 pm	AI for Sustainable Development Goals (SDGs) and societal impact Damilare Oyedele	
04.35 pm – 04.50 pm	Underutilized potential of artificial intelligence in addressing food insecurity in Kenya Dr. Dennis Maina & Dr. Flora Runji	
04.50 – 05.05 pm	Harnessing information policies and Artificial Intelligence for Africa's sustainable development: A multi-sectoral analysis with case studies from Kenya Isaiah Wanjala Mang'eni and Dr. John Alonge Ayodele	
05.05 pm – 05.20 pm	Malthusian population problem in relation to AI and it's implication on economic growth in the central senatorial district of cross River State in Nigeria in west Africa. Louis Friday Agbor, Akim Lucia James and Ushie Thomas L	
05.20 pm - 05.35 pm	Tree-based predictive models towards solving the university academic progress crisis Judah Kabiru Kibuthi	
05.35 pm - 05.50 pm	Q & A Session	

DAY 3: WEDNESDAY 16th APRIL, 2025

Activity	Facilitator
Arrival and registration	Secretariat
Session H	
AI-Driven Knowledge Discovery in Libraries and	Session Chair:
Information Centers	Naomy Mwaurah
Al Dina Variata Director in Libraria and Left constitution	
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·	
Transforming academic library reference services: the role of	
Artificial Intelligence and emerging technologies.	
Empowering lifelong learning: AI in educational platforms for	
sustainable development-a survey of library and information	
science educators	
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	Secretariat Session Chair:
·	Sally Chepchirchir
	Sany Chepenneini
knowledge expansion	
Dr. Justina Ngozi Ekere, Dr. Juliana O. Akidi, Dr. Oyemike Victor	
2	
The Role of Artificial Intelligence (AI) in Sustainability of	
academic libraries in Kenya	
George Mwangi Wamahiga	
George Mwangi Wamahiga Q & A Session	
George Mwangi Wamahiga Q & A Session Session I	Somion Chair
George Mwangi Wamahiga Q & A Session Session I Human AI collaboration in publishing, creative and cultural	Session Chair:
George Mwangi Wamahiga Q & A Session Session I Human AI collaboration in publishing, creative and cultural industries.	Session Chair: Ese Eunice Anenene
George Mwangi Wamahiga Q & A Session Session I Human AI collaboration in publishing, creative and cultural industries. John Mwazemba	
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George Mwangi Wamahiga Q & A Session Session I Human AI collaboration in publishing, creative and cultural industries. John Mwazemba	
	AI-Driven Knowledge Discovery in Libraries and Information Centers AI-Driven Knowledge Discovery in Libraries and Information Centers Honorable Sagir Musa Ahmed Impacts of artificial intelligence (AI) on information services delivery in libraries: a case of the Catholic University of Eastern Africa library. Lydia Chegem & Dr. Everlyn Anduvare Transforming academic library reference services: the role of Artificial Intelligence and emerging technologies. Vincent Bob Kiilu, Thomas Njoroge, & Dr Peris Wambui Kiilu Empowering lifelong learning: AI in educational platforms for sustainable development-a survey of library and information science educators Prof. Chinwe Nwogo Ezeani, Prof. Francisco Esoswo Ogbomo, Dr. Nneka Uchenna Nwankwo & Annabel Onyeisi Ijeh AI-enhanced knowledge discovery in libraries and information centers: ethical and innovative practices for sustainable knowledge systems. Godfrey J. Nyongesa, Dr. Mbenge T. Ndiku & Dr. Ashah Owano Kaburu Q & A Session Health Break AI versus the Library or AI and the Library? Naomy Mwaurah & Salome Kivuva Assessing AI literacy skills of academic librarians in Kenya Miriam W. Ndungu and Dr. Stanislaus Agava Revitalizing access to information: the role of AI-driven technologies in libraries and information centers. Ruth Kiilu, Lynette Njogu, Alphonce Kilonzo & Francis Macharia. African libraries and open knowledge practices: a call for understanding of the problems, prospects and best practices for knowledge expansion Dr. Justina Ngozi Ekere, Dr. Juliana O. Akidi, Dr. Oyemike Victor Benson, & Dr. Friday Ibeke Udensi.

02.00 pm – 03.00 pm	Closing remarks and issuance of certificates	Dr. John Ayodele & Dr.		
		Everlyn Anduvare		
03.00 pm – 04.00 pm	Vote of thanks	Dr. John Ayodele		
04.00 pm – 05.00 pm	Socialisation, tea and departure	Secretariat		
Asante!				

Book of Abstracts for ICSKS 2025

Submitted abstracts

Alonge, A. J., Anduvare, E & Owolabi, S. (2025). Book of Abstracts. Interdisciplinary Journal of Contemporary Research in Information and Communication, 2(1). https://ijcric.org/index.php/ijcric/article/view/15

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