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Webinar:

Emerging Technologies

Partnering for Accessibility,
Discoverability and
Sustainable Future

Co-hosted with **ZENDY**

SPEAKERS



Prof Tatiana Morosuk
Technical University Berlin
Germany



Dr Jo Havemann
Co-founder and lead
coordinator, AfricArXiv
Trainer and consultant in
Open Science Communication



Monica Chinsami
Head of Marketing
Zendy





Prof Tatiana Morosuk
Technical University
Berlin, Germany

KEY TAKEAWAYS

- The energy sector is undergoing a significant transition, moving away from conventional fossil fuels to embrace emerging technologies with a focus on sustainability.
- The technologies discussed in the presentation are currently in the intermediate stages of development, falling between Technology Readiness Levels 4 and 7. This indicates their potential for substantial impact in the energy sector.
- The evolution of energy distribution extends beyond electricity to encompass heat and gas. The emphasis on smart grids is crucial for efficiently managing diverse energy sources.



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Technical University
Berlin, Germany

- Despite being a clean source, electricity faces challenges such as high costs and difficulties in large-scale storage. The presentation underscores the need for innovative technologies to overcome these challenges.
- A notable solution presented is the “Power-to-X” concept, where excess electricity is converted into hydrogen. This hydrogen can then be utilised for various purposes, offering a promising avenue for emissions reduction and grid stabilisation.





Dr Jo Havemann

Co-founder and lead
coordinator, AfricArXiv
Trainer and consultant
in Open Science
Communication

KEY TAKEAWAYS

- AfricArXiv, launched in 2018, is an Africa-hosted and African-owned repository designed to tackle challenges and enhance the discoverability of African research.
- Starting in 2023, AfricArXiv collaborates with UbuntuNet Alliance, an African regional network organisation that provides connectivity and infrastructure for research and education institutions throughout Southern and Eastern Africa.
- The mission is to make African research discoverable, aligned with Sustainable Development Goals (SDGs), particularly SDG 4 related to education, research, and knowledge dissemination.





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- The emphasis is on addressing challenges in African research, including language barriers, the restricted digital visibility of African scholarly output, and the underrepresentation of African scholars in international research consortia.
- The platform supports various languages spoken on the continent, including English, French, Arabic, Portuguese, and traditional African languages, such as Amharic, Swahili, Zulu, and Twi, emphasising multilingualism for accessibility.
- It also provides training and webinars on publishing and digital services to increase visibility of African research.
- Collaborates globally, including a grant from ORCID, to build capacity for open science practices in the region.
- Ongoing webinar series in 2023/2024 to assist African researchers, librarians, and institutions in adopting digital tools for Open Science – register at africarxiv.org >> WEBINARS.



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- AfricArXiv advocates for the adoption of Diamond Open Access as an underused model that doesn't charge readers or submitting researchers for publishing.
- In addition to collaborating with established and globally inclusive generalist repositories like Figshare, Zenodo, PubPub, etc., AfricArXiv now leverages a centrally hosted repository in Malawi through UbuntuNet Alliance. This involves utilising servers in Zambia and Uganda to establish open-source technology, contributing to continent-wide digital infrastructure development.
- The team behind AfricArXiv is working with representatives of African research institutions for the adoption of state-of-the-art scholarly technologies to enhance research dissemination.



RELATED LINKS:

<https://access2perspectives.org/>

<https://africarxiv.org/>

✉ info@africarxiv.org



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Monica Chinsami
Head of Marketing
Zendy

KEY TAKEAWAYS

- Zendy is an AI-powered research library founded in 2019 with a mission to make scholarly literature more affordable and accessible
- Zendy currently hosts over 400,000 users from 200 countries and territories, including students, researchers, and professionals.
- Zendy collaborates with world-class publishers, such as IntechOpen, to increase the discoverability and accessibility of open access content.
- In regions where open access is limited, Zendy forms partnerships to make paid content more affordable, providing a legal alternative to pirated content.



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Head of Marketing
Zendy

- Lack of funding in developing countries poses challenges, and Zendy seeks to provide legal and credible access to content in these regions.
- Utilising AI technology, Zendy has introduced tools such as AI summarization, keyword highlighting, and a custom-trained LLM model to facilitate a smooth discovery experience.
- The LLM model can be customised for different institutions or corporations, allowing them to have a model tailored to their specific content needs.
- Zendy assesses its impact through analytics, noting a substantial readership from the developing world, tackling limited access challenges. There's also a growing readership in the US (for example), particularly from smaller institutions facing constraints in library database access.





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or would like to give us feedback,
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