## **Concluding Workshop**

**Place:** KCA University, Kenya **Date:** March 7, 2023

**Venue:** KCAU Main Hall at welcome centre

**Program:**

**08.30 - 09:00** *Leave Hotel for the KCAU*

Moderator: Simon Mwendia

**09:00 - 10:00** Meeting with KCAU Administration and visit campus

**10:00 - 10:15** *Coffee break*

10:15-11:30 Opening Speeches - MC: Ernest Madara

Welcome Remarks-Dr. Mwendia

Introductions– DVC-ASA - KCAU

Opening Remarks-VC&CEO-KCAU

Brief Speeches from representatives of Guests

Keynote speech from Chief guest

**11:30-12:30 Public Panel Discussion**

*BlockChain Technologies for Sustainable Development*

**Moderator:**  Dominc Ojuang from KCAU *(Note: Bente Dale)*

**Panellists:** Bitange Ndemo, Chunming Rong,Hans-Arno Jacobsen,Zhiming Zhao,

**12:30 - 14:00** Lunch

Open Lectures:

**14:00 - 14:30** Trustworthy quality-critical distributed computing for research infrastructures.Talk by Zhiming Zhao

**14:30 - 15:00** The Data Science of Federated Learning. Talk by Hans-Arno Jacobsen (Arno)

*Moderator: Astrid Elisabet Tveitaskog (Note: Bente Dale)*

**Feedback session from mobility students and staffs:**

**15:00 - 15:15** George Njenga (by Zoom [kangetheg@gmail.com](mailto:kangetheg@gmail.com)) - KCAU

**15:15 - 15:30**  Hosea ciuti Gachenga (by Zoom but[@gmail.com](mailto:ciutigacenga@gmail.com)) - UoN

**15:30 - 15:45**  Peter Mosagwe- KCAU

**15:45 - 16:00**  Honoré my Mbaya - UoN

**16:00-16:15**  Coffee Break

**16:15 - 16:30** Roy Makau - KCAU

**16:30 - 16:45**  Barack W. Wanjawa - UoN

**16:45 - 17:00**  Karoi Lekakeny - KCAU

**17:00- 17:15**  Peter Kitonga - UoN

**19:00** Dinner (by invitation)

## **Workshop on Future Collaborations**

**Place:** University of Nairobi, Kenya **Date:** March 8, 2023

Address and room: 4th Floor, MLT 405, University of Nairobi Towers, Main Campus

**Program:** *(15 minutes talk + 15 minutes interaction on collaboration, except the HKDIR)*

**08.30 - 08:45** *Coffee and registration*

*Moderator: Chunming Rong*

**08:45 - 09:00** Opening and Welcome

**09:00 - 10:00** Dag Hovdhaugen & Helén Sophie Haugen **(**HKDIR, Norway)

**10:00 - 10:30** Prof. Zhiming Zhao (UvA, The Netherlands)

**10:30 - 11:00** Prof. Hans-Arno Jacobsen (UofT, Canada)

**11:00 - 11:15** *Coffee break*

*Moderator: Astrid Elisabet Tveitaskog*

**11:15 - 11:45** Prof. Andrew Kahonge (UoN, Kenya) - Market-driven research at the department of Computing and Informatics

**11:45 - 12:15** Prof. Chunming Rong (UiS, Norway) - Decentralised Knowledge Sharing using Open Infrastructure-as-Code (OpenIaC)

**12:15 - 12:45** Dr. Simon N. Mwendia (KCAU -Kenya)

**12:45 - 14:00** *Lunch*

*Moderator: Bente Dale*

**14:00 - 14:30** Prof. Agnes Wausi and Prof. Timothy Waema (UoN, Kenya) - Digital + human advisory services: The hope for improved agricultural production for smallholder farmers

**14:30 - 15:00**  Prof Waweru Mwang i- Data Science for Some Smart Farming Applications in Kenya

**15:00 - 15:30**  Prof. Peter Wagacha - Health informatics research: Opportunities for collaboration (UoN, Kenya)

**15:30 - 16:00**  Prof. Peter Gichangi - Collaboration opportunities in reproductive health

**16:00** Workshop Close

**Dag Hovdhaugen**

Dag Hovdhaugen is Executive Director of the Division for Recognition and Admissions at the Norwegian Directorate for Higher Education and Skills (HK-dir). He has formerly been with the Norwegian Agency for Quality Assurance in Education (NOKUT). Dag is head of the Norwegian ENIC-NARIC and has responsibility for the Norwegian participation in the ENIC-NARIC Networks and HK-dir´s international projects. Dag Hovdhaugen holds a master’s degree from Harvard University in Boston, Massachusetts.

**Helén Sophie Haugen**

Helén Sophie Haugen is Head of Department of Recognition of Professional Qualifications at the Norwegian Directorate for Higher Education and Skills (HK-dir). She has formerly been with the Norwegian Agency for Quality Assurance in Education (NOKUT), where she was Head of Accreditation at the Department of Quality Assurance before moving over to Recognition of Foreign Education. As part of her department’s portfolio, Helén administers the recognition schemes for the two regulated professions teacher and kindergarten teacher, as well as interview-based recognition procedures. Helén Haugen holds a Ph.D. from the University of Oslo, Norway.

**Chunming Rong**

Prof. Chunming Rong is the head of the Data-centred and Secure Computing (DSComputing) Research Group at the University of Stavanger (UiS). He has served the extended IEEE Cloud Computing community for many years and led its transition to the IEEE CS Technical Committee on Cloud Computing (TCCLD). He served as the steering chair (2016-2019), and now as steering member of the IEEE Transactions on Cloud Computing (TCC). He has extended his engagement also in the IEEE Future Directions, through his involvement with the IEEE Blockchain Initiative (2017-2018). He is the chair of STC on Blockchain in IEEE Computer Society and also an advisor of the StandICT.EU to support European scandalization activities in ICT. He is also co-founder of two start-ups bitYoga and Dataunitor in Norway, both received EU Seal of Excellence Award in 2018. He is co-Editors-in-Chief of the journal “Blockchain: Research and Applications” by Elsevier, co-Editors-in-Chief of the Journal of Cloud Computing by Springer, served as the steering chair (2016-2019), and is associate editor of the IEEE Transactions on Cloud Computing since 2016. He has an extensive contact network and projects in both the industry and academia related to cloud computing, data analytics, cyber security and blockchain.

**Zhiming Zhao**

Dr. Zhiming Zhao is an assistant professor in the Multiscale Networked Systems (MNS) research group in the Informatics Institute at the University of Amsterdam (UvA). He is also the technical manager of the Virtual Lab & Innovation Center (VLIC) of the European Research Infrastructure LifeWatch. Dr. Zhao obtained his Ph.D. in Computer Science from UvA in 2004. His research focuses on novel programming and control models for quality critical systems on programmable infrastructures such as Clouds, Edges, and Software-Defined Networking using optimization, semantic linking, blockchain, and artificial intelligence technologies. His research team develops innovative workflow systems, virtual research environments, and cloud automation solutions to tackle data and computing challenges in environmental and earth sciences, medical imaging, and digital twins. He has published more than 150 papers in peer-reviewed international journals and conferences.

(https://staff.fnwi.uva.nl/z.zhao/)

**Hans-Arno Jacobsen**

Prof. Hans-Arno Jacobsen is a full professor in the Department of Electrical and Computer Engineering and the Department of Computer Science at the University of Toronto. He is an IEEE Fellow, directs the research activities of the Middleware Systems Research Group (msrg.org), and holds the endowed Jeffrey Skoll Chair in Networking and Innovations. He conducts research at the intersection of distributed systems and data management, with particular focus on blockchains, middleware abstractions, (complex) event stream processing, Big data systems, cloud computing, and cyber-physical systems. After studying and completing his Ph.D. in Germany, France, and the U.S. (Berkeley), he engaged in post-doctoral research at INRIA near Paris, France, before moving to the University of Toronto in 2001. In 2011, he was awarded the prestigious Alexander von Humboldt-Professorship to engage in research at TUM in Germany. Under the leadership of Professor Jacobsen, more than 25 doctoral candidates completed their dissertations moving on to assume professorships of their own. Professor Jacobsen is currently advising more than 10 doctoral students.