

9th ICAT POSTER SESSION

THE 9TH INTERNATIONAL CONFERENCE ON APPROPRIATE TECHNOLOGY
NOVEMBER 2020 - PRETORIA, SOUTH AFRICA

This session will be hosted coinciding with the International Conference on Appropriate Technology. The theme of this year's conference is *Technology Exchange and Employment Creation for Community Empowerment: Cross-Pollinating Innovative Models*.

The **Poster Session** allows post-graduate, emerging researchers, and established an opportunity to refine research concepts towards the completion of a full paper or a journal article. As we aim to make this an educational experience, the following panel of experts will provide feedback the submitted papers:

Panel of Experts



**Dr. Olanji
Olayinka
Mohammed**

Dr. Olanji Olayinka Mohammed is currently a lecturer and Researcher in the department of Mechanical Engineering, Federal University of Technology Akure Nigeria. Presently, he is a postdoctoral Research Fellow in the department of industrial engineering and the Gibela Research Chair in Manufacturing and Skills Development with the Tshwane University of Technology (TUT), South Africa. He has reviewed papers for various Conferences and Journals, including the 30th CIRP Design Conference and Journal of Engineering, design and Technology Emerald. He received his PhD in Industrial Engineering from the Tshwane University of Technology, Pretoria West, South Africa in 2016. He received his Master of Engineering degree in Mechanical Engineering from the Department of Mechanical Engineering, Federal University of Technology Akure, Nigeria in 2012. His research interest includes mechanical engineering design, advanced manufacturing, automation and control systems.



Mr. Oyesola Moses

Mr. Oyesola Moses by name; a doctoral student at the Department of Industrial Engineering, Tshwane University of Technology, Pretoria.

Areas of expertise are in Electrical and Industrial Engineering education and practice. While research focus involves advanced manufacturing systems with special attention in Additive Manufacturing digital impact assessment in the context of Industry 4.0 revolution.

He is also a research fellow at Rail Manufacturing Centre for Entrepreneurship Rapid Incubator (RMCERI), an Aerospace team supporting member of MerSETA project at the Department of Industrial Engineering of Tshwane University of Technology, Pretoria South Africa. Mr Oyesola Moses by name; a doctoral student at the Department of Industrial Engineering, Tshwane University of Technology, Pretoria.



John Ogbemhe

John Ogbemhe received the B.Eng (hons) Degree in agricultural engineering (Second class upper division) from the Federal University of Technology Akure (FUTA), Nigeria, in 2003, and the M.Sc. degree (pass with distinction) in systems engineering (artificial intelligence option) from the University of Lagos, Nigeria. He has a doctorate in Industrial Engineering, Tshwane University of Technology (TUT), South Africa. He is also a Lecturer with the Department of Systems Engineering, University of Lagos (UNILAG). His research focuses on industrial robotics, digital manufacturing, and ROS-I applications to advance manufacturing. He is currently a member of the South African Institute of Industrial Engineering (SAIIE), a member of the Nigerian Society of Engineers (NSE), and a certified and registered engineer with the Council for the Regulation of Engineering in Nigeria (COREN). He is a member of the CIRP Design2020 Administration Team and has scholarly works with reputable journals and conferences. He has reviewed papers for various conferences.

Poster Session Coordinators



Ilesanmi Afolabi Daniyan

Member Of The 9th ICAT Local Organising Committee

Ilesanmi Afolabi Daniyan obtained a Doctor of Philosophy (PhD) and Master's degrees in engineering (MEng) in mechanical engineering (production engineering option) from the Federal University of Technology, Akure, Nigeria in 2012 and 2017, respectively. He also obtained a Bachelor of Technology Degree (BTech) in chemical engineering from Ladoke Akintola University of Technology, Ogbomoso, Nigeria in 2008. At present, he is a postdoctoral research fellow at the Department of Industrial Engineering, Tshwane University of Technology in Pretoria, South Africa, where he, as a member of a research team, focuses on the development of indigenous technology for advancing the railcar manufacturing industry in South Africa. Prior to this, he was a senior lecturer in the Department of Mechanical and Mechatronics Engineering at Afe Babalola University in Ado Ekiti, Nigeria, where he taught courses relating to fluid dynamics and mechanics, strength of materials, mechanical vibrations and control, systems engineering and control, production engineering, engineering thermodynamics, maintenance management, electromechanical machines and turbomachinery at both undergraduate and postgraduate levels. During 7 years of service at the institution, he was rated the best lecturer in the Department of Mechanical & Mechatronics Engineering for the year 2015-2016 and 2016-2017. He is a registered member (Professional Engineer Cadre) of the Council for the Regulation of Engineering in Nigeria (COREN) and an associate member of the Southern African Institute of Industrial Engineering (SAIIE). He was a finalist of the SAIIE prestigious award for the best industrial engineering practitioner in 2019 and successfully completed the supervision of 18 students at undergraduate level and 3 students at post-graduate level. He has published extensively in both local and international peer reviewed for journals and conferences. He has served meritoriously in several administrative and academic capacities locally and internationally. His



Amira Osman

Member Of The 9th ICAT Local Organising Committee Chair

Amira Osman is a Sudanese/South African Professor of Architecture at the Tshwane University of Technology. She currently holds the position of SARCHI: DST/NRF/SACN Research Chair in Spatial Transformation (Positive Change in the Built Environment) and is the Joint Coordinator of the international group CIB W104 Open Building Implementation. She is also the Chair of the Local Organising Committee (LOC) for the 9th International Conference on Appropriate Technology (ICAT), to be held in Pretoria, November, 2020. Amira obtained a BSc in 1988 and an MSc in 1996, both from the University of Khartoum in Sudan. She obtained a diploma from the Institute for Housing Studies in Rotterdam (IHS) in 1992 and a PhD in Architecture from the University of Pretoria in 2004. Amira hosted and convened the World Congress on Housing in 2005 at the University of Pretoria as well as the Sustainable Human(e) Settlements: The Urban Challenge conference in 2012, at the University of Johannesburg. She served as UIA 2014 Durban General Reporter and as head of the Scientific Committee for the International Union of Architects (UIA) and the South African Institute of Architects (SAIA).