

MBEYA UNIVERSITY OF SCIENCE AND TECHNOLOGY



WEEKLY RESEARCH SEMINAR SERIES

MUST Community and General Public are cordially invited to attend the 47th Research Seminar Presentation

COLLEGE OF INFORMATION AND COMMUNICATION TECHNOLOGY (CoICT)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

RESEARCH TITLE: The Comparison between Hopfield Neural Network and Restricted Boltzmann Machine in Setting the Unit Price Algorithm for Online Dynamic Pricing

SPEAKER: Dr. Lusajo M. Minga (PhD. in Management Science and Engineering)

BIOGRAPHY OF THE SPEAKER: Dr. Lusajo M. Minga is a Senior Lecturer from the Department of Computer Science and Engineering under the College of Information and Communication Technology (CoICT) at the Mbeya University of Science and Technology (MUST). She is a PhD. holder in Management Science and Engineering at Harbin Institute of Technology, China, Master of Science in Economic Cybernetics from Rostov on Don State University, Russia and a Full Technician Certificate in Electrical Engineering from Arusha Technical College, Tanzania. She is a registered technical teacher, engaging herself in research, training and consultancy services. Dr. Minga has been in the teaching profession for more than 21 years. During her teaching profession, she has been in Management position for the past 15 years. She is a member of several Training Institution's Boards. She has published more than 17 papers and her research interest area is on E-commerce. Currently, Dr. Minga is the Director of the Center for Virtual and Continuing Education at MUST.



R-ID NO: 0104

DATE: Friday 12th February, 2021

TIME: 04:00PM

VENUE: MUST CONFERENCE AT OLD LIBRARY

SUMMARY OF THE PRESENTATION: This paper presents the comparison between Hopfield Neural Network (HNN) and Restricted Boltzmann Machine (RBM) for techniques to set automatic the profitable price for online group buying discounts where the marginal cost is changing with the change of quantity demanded. The comparison is done by looking on the results of an example of a production function with four variable production factors. With this example, HNN and RBM use one type of computer with the same version of MATLAB to set automatic the profitable unit selling prices for different quantity ordered. The investigation shows that RBM performs better in setting automatic the profitable unit selling price than HNN. While HNN performs better in time interval used to set automatic the profitable unit selling price for each quantity ordered than RBM.

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WEEKLY RESEARCH SEMINAR SERIES

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RESEARCH TITLE: Evaluation of Value for Money Performance Parameters in Force Account Delivered Projects in Tanzania

SPEAKERS: Prof. Joseph John Msambichaka, Dr. Juma Ahmed Mpangule and Mr. Arnold Kaijage Kashula

BIOGRAPHY OF THE 1st SPEAKER: Prof. Joseph John Msambichaka is an Associate Professor from the Department of Civil Engineering under the College of Engineering and Technology (CET) at the Mbeya University of Science and Technology (MUST). He holds a Doctorate Degree in Civil Engineering (Structural) from Germany. He is a registered Consulting Engineer. He has more than 36 years experience as Civil Engineer-Ministry of Works and Academician at University of Dar es Salaam (UDSM) and Mbeya University of Science and Technology. Prof. Msambichaka has written more than 48 papers and reports, and he has accomplished more than 32 projects mainly in infrastructures.

BIOGRAPHY OF THE 2nd SPEAKER: Dr. Juma Ahmed Mpangule is a Lecturer in the Department of Construction Management and Technology under the College of Architecture and Construction Technology (CoACT) at the Mbeya University of Science and Technology (MUST). He holds a PhD in Engineering Science awarded by TU-Dortmund and both Master's and Bachelor Degree from Ardhi University. He has more than 10 years of experience in academics. He is the Research and Publication Coordinator for the College of Architecture and Construction Technology. Professionally, Dr. Mpangule is a Quantity Surveyor with an experience of more than 12 years and recognized by the Architects and Quantity Surveyors Registration Board (AQRB) as a Graduate Quantity Surveyor. Currently, Dr. Mpangule is the Acting Director of the Centre for Innovation and Technology Transfer (CITT) at MUST.

BIOGRAPHY OF THE 3rd SPEAKER: Mr. Arnold Kaijage Kashula is an Assistant Lecturer in the Department of Architecture and Art Design under College of Architecture and Construction Technology (CoACT) at the Mbeya University of Science and Technology (MUST). He holds Bachelor Degree in Architecture from the University of Dar es Salaam and Master of Science in Housing from Ardhi University, Tanzania. He has more than 13 years teaching experience. Mr. Kashula has been involved in various construction projects from feasibility to commissioning, inspection, valuation, and auditing. He is a registered Architect by the Architects and Quantity Surveyors Registration Board (AQRB) and a Corporate Member of Architects Association of Tanzania (AAT) since 2006. Currently, he is the Coordinator of Public Services and External Links for CoACT at MUST.



R-ID NO: 0105

DATE: Friday 12th February, 2021

TIME: 04:45PM

VENUE: MUST CONFERENCE AT OLD LIBRARY

SUMMARY OF THE PRESENTATION: Value for Money is usually the ultimate goal of any participant involved in the delivery of the construction project. In essence, designers in construction projects need to be keen enough to balance all dimensions in order to achieve the value for money irrespective of the delivery method. In construction projects today, government which, in most cases is the major client of the construction industry, decided to use 'force account' in a move to attain best value for money in the remodeling and renovation projects. Stepping from that, this study finds it of paramount importance, to review, explore and evaluate the ways these fundamental value for money parameters are established, managed and measured and achieved in force account delivered projects. . It is believed that through a better knowledge and understanding on the processes, challenges, strengths and weaknesses of the force account, the users can positively be advised and advantageously gain the value of this method.

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