

IUM Engineering Congress 2014

SUSTAINABLE TECHNOLOGY FOR THE BETTERMENT OF HUMAN LIFE

Sunway Putra Hotel, Kuala Lumpur, Malaysia

23rd- 25th September 2014

PROGRAMME BOOK

5th International Conference on Computer and Communication
Engineering 2014

3rd International Conference on Mathematical Application in
Engineering 2014

2nd International Conference on Advances in Manufacturing and
Materials Engineering 2014



ICGCE 2014



ICA
MME
2014

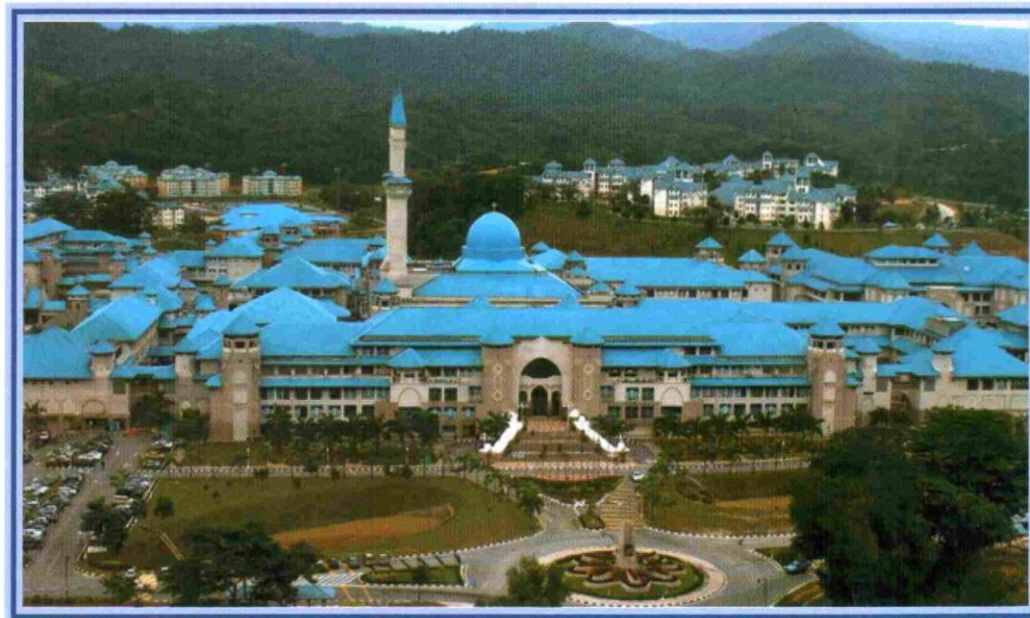
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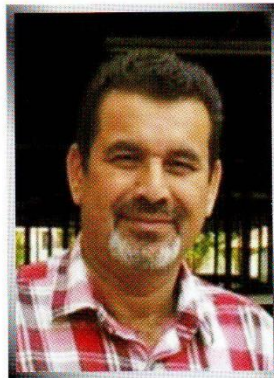


Programme Book



ICMAE '14

KEYNOTE SPEAKER 3



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Dr. Jamal I. Daoud received his Ph.D in Statistics in 1992 from State Academy of Management, Moscow-Russia. Prior to joining IIUM in 2006, he served as academician in several universities in Russia and Libya. His interests are Regression Analysis, Statistical Inference, and Experimental Design.

He is author of more than 60 publications in various areas of statistics and 4 books in statistics. Currently he is the coordinator of the Mathematical Modeling and Simulation Research Group in the Kulliyyah of Engineering.

STATISTICS AND ITS IMPORTANCE IN VALIDATING RESEARCH FINDINGS

Researches in life constitute a chain where every ring of it should be verified and validated. Statistics and its tools are widely used in researches regardless to the area of application. Nowadays, we can hardly find any research work without using statistical packages or tools to reach results and interpret them. The objective of this paper is to touch on a serious problem in validating the research findings. This problem is in using statistics and its tools without enough knowledge of how a certain statistical technique works, under what conditions. Not having necessary knowledge and background results in wrong application and certainly, will lead to wrong interpretation. All this will affect the validity and reliability of the obtained results. The trouble comes, when these results are adapted and used by other researchers as valid results, which results in another non-valid reliable research and non-valid findings. In fact, any non-valid or non-validated result will break the chain of research or produce research broken links. It is almost impossible to have an exact or approximate statistics on research works that have not been validated due to various reasons, among which, it is impossible physically for a researcher to check all aspects of any research work he is adapting. The aim of this short communication is to propose some guidelines and recommendations that might help in avoiding or at least minimizing research broken links.