



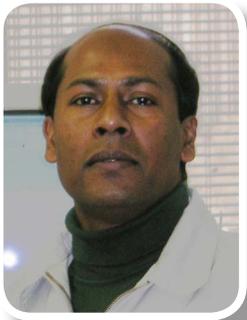
SYNOPSIS

Whether we realize it or not, the theory of global optimization drives our everyday desires and actions. For example, we want to do things better, to achieve our goals faster, to make our investments or other actions risk-free. Industries want to improve the quality of products for bigger market shares or to make strategic decisions for better profit margins. The mathematical theory of global optimization is used to achieve these desired goals in the best possible way. As we live and operate in today's competitive global village, the need for global optimization is becoming imperative. Indeed, global optimization is impacting all aspects of the technological world in which we are privileged to live. This talk briefly presents various optimization problems and some related algorithms for the solutions to these problems. The concept of global optimization and the complexity in the solution process will then be discussed. A number of practical problems of industrial background will be presented.



BIOGRAPHICAL PROFILE:

Montaz M. Ali



Montaz Ali received his B.Sc. and M.Sc. degrees in mathematics from Dhaka University, Dhaka, Bangladesh, in 1982 and 1983, respectively, and a Ph.D. degree in stochastic global optimization from the University of Technology, Loughborough, U.K., in 1994. From 1994 to 1996, he held positions as Research Fellow at Plymouth University, U.K., and Abo Akademi University, Turku, Finland. From 1997

to 2012 he was in the School of Computational and Applied Mathematics, Witwatersrand University, Johannesburg, South Africa. Currently he is a Research Professor in the Faculty of Engineering and Built Environment of the same university. His research interests include global optimization, mixed integer nonlinear programming, operations research and optimal control theory.

He is the author or co-author of more than 50 scientific papers in refereed international journals.



THE COLLEGE OF AGRICULTURE, ENGINEERING AND SCIENCE
School of Mathematics, Statistics and Computer Science
Operations Research Society of South Africa (KZN Chapter)

cordially invites you to attend a

Public Lecture

Global Optimization Applied to Industrial Problems

by

Professor Montaz M. Ali



Date: Wednesday, 25 September 2013

Venue: Senate Chamber, UKZN Westville Campus

Time: 17h30 for 18h00

The lecture will be followed by light refreshments

For more information, please contact Sally Frost on 033 260 7642

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