

# Foreword

Welcome to the **Second Issue 2017** of the Journal of Science and Technology (JST)!

JST is an open-access journal of science and technology published by Universiti Putra Malaysia Press. It is independently owned and managed by the university and run on a non-profit basis for the benefit of the world-wide science community.

In this issue there are a total of **22 articles**. From the 2<sup>nd</sup> International Conference on Statistics in Science, Business and Engineering (ICSSBE 2015) ten papers have been selected. Included too is a review article and 11 of our usual specialised contributions.

*Hayder Baqer Abdullah, Irmawati Ramli, Ismayadi Ismail and Nor Azah Yusof* in their review article discuss hydrocarbon sources for carbon nanotubes production by chemical vapour deposition.

The first regular article in this issue is an investigation on the high temperature erosion behaviour of plasma sprayed CoCrAlY/AL<sub>2</sub>O<sub>3</sub>/YSZ on Fe and Ni based alloys by *Nithin H. S., Vijay Desai and M. R. Ramesh*. This is followed by papers on: the use of infiltration wells to reduce the impact of land use changes on flood peaks: an Indonesian catchment case study by *Kusumastuti, D. I., Jokowinarno, D., Khotimah, S. N. and Dewi, C.*; a hybridised intelligent technique for the diagnosis of medical diseases by *Abdu Masanawa Sagir and Saratha Sathasivam*; the ability of *ipomoea aquatica* forssk to remediate phenol in water and effects of phenol on the plant's growth by *Siew-Yi Lee, Siti Aqlima Ahmad, Siti Roslina Mustapha and Janna Ong-Abdullah*; robust artificial bee colony in the hopfield network for 2-satisfiability problem by *Mohd. Shareduwan Mohd. Kasihmuddin, Mohd. Asyraf Mansor and Saratha Sathasivam*; estimating lung cancer deaths in Thailand based on verbal autopsy study in 2005 by *Nattakit Pipatjaturon, Phattrawan Tongkumchum, and Attachai Ueranantasan*; rainfall trends in the Niger-south basin, Nigeria, 1948-2008 by *Oloruntade, A. J., Mohammad, T. A. and Aimrun, W.*; numerical analysis of the effect of nozzle geometry on flow parameters in abrasive water jet machines by *Deepak, D., Jodel, A. Q., Cornelio, Midhun Abraham, M. and Shiva Prasad, U.*; an approach for identification of copy-move image forgery based on projection profiling by *Mohd Dilshad Ansari, Satya Prakash Ghrera and Mohd Wajid*; novel impedance measurement technique for soluble solid content determination of banana by *Ibrahim, N. U. A., Abd Aziz, S. and Nawli, N. M.*; phase transition and dielectric properties of 0.9Pb(Fe<sub>1/2</sub>Nb<sub>1/2</sub>)O<sub>3</sub>-0.1PbTiO<sub>3</sub> modified with nano ZnO by *Hassakorn Wattanasarn, Wattana Photankham, Peerapat Pattumma and Rattikorn Yimnirun*.

I conclude this issue with 10 papers from the ICSSBE 2015 international conference. They are : some new bivariate regression models by *Faroughi, P. and Ismail, N.*; identifying the uncertain model parameter of a steam turbine system by *Wan Munirah, W. M, Tahir, A. and Azmirul, A.*; decision making procedure based on jaccard similarity measure with z-numbers by *Mohamad, D. and Ibrahim, S. Z.*; sample size and non-normality effects on goodness of fit measures in structural equation models by *Ainur, A. K., Sayang, M. D., Jannoo, Z. and Yap, B. W.*; a method for performing short time series prediction by *Pooi, A. H.*; a goal programming model for portfolio optimisation problem in fuzzy environment by *Mazura, M., Adibah, S. and Daud, M.*; performance of variance targeting estimator

(vte) under misspecified error distribution assumption by *Abdul Rahim, M. A., Zahari, S. M. and Shariff, S. S. R*); review of context-based similarity measure for categorical data by *Nurul Adzlyana, M. S., Rosma, M. D. and Nurazzah, A. R.*; accessing stock market volatility for different sectors in Malaysia by *Shakila, S., Noryati, A. and Maheran, M. J.*; a railway rescheduling model with priority setting by *Shuib, A. and Alwadood, Z.*

I believe readers will find the evidence presented in this issue to be intriguing, thought-provoking, and, useful for further research. Please recommend the journal to your colleagues and students to make this endeavour meaningful.

I would like to take this opportunity to express my gratitude and thanks to all the contributors, reviewer, editors, and editorial assistance of the journal division staff.

JST is currently accepting manuscripts for upcoming issues based on original qualitative or quantitative research that opens new areas of inquiry and investigation.

**Chief Executive Editor**

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