Welcome to the final issue of IJAEC in 2011. We are pleased to invite our readers to enjoy these contributions. During the past decades, hybridization of evolutionary algorithms and models have been successfully applied to solve problems in a wide variety of fields such as forecasting, scheduling, classification, biometrics, medical diagnosis, signal processing, and so on. IJAEC will continue receiving numerous interesting and high quality submissions.

In this issue, each paper has been carefully reviewed, and eventually, four regular papers, addressing wide applications of hybridization concepts, such as hybrid evolutionary algorithms (genetic algorithm, simulated annealing algorithm, bacteria foraging optimization, artificial bee colony algorithm, and particle swarm optimization, etc.) in web page data mining, and rainfall forecasting, and task composition analysis.

The first article, by Fang, Guan, and Zhang from Xi’an Jiaotong-Liverpool University (China), proposes the recursive learning of genetic algorithm (RLGA), by using recursive learning mechanism to decompose the original problem into sub-problems, to overcome time consuming and improve classification accuracy in pattern classification problem. Their experiments indicate that RLGA performs better than GA and other related solutions regarding training duration and generalization accuracy according to our experimental results.

The second paper, by Suwannik from Kasetsart University (Thailand), presents an approach that uses compressed chromosomes (namely LZWGA) instead of binary ones while employing genetic algorithm (GA), to reduce the exponential increasing computing time when the problem is complicate to require more size of the search space. His experiments conclude that, by using LZWGA, the search space is reduced dramatically, and in the case of one-million-bit problem, the search space of the original problem is $2^{1000000}$ or about $9.90 \times 10^{301029}$ points, when using a compressed encoding (LZWGA), the search space was reduced to $8.37 \times 10^{166717}$ points.

The third paper, by Rathipriya and Thangavel from Periyar University (India), and Bagyamani from Government Arts College (India), proposes biclustering algorithm to analyze the complex association between users and pages of a web site. In the proposed biclustering algorithm, mutation operator from Genetic Algorithms is incorporated into the Binary Particle Swarm Optimization (BPSO) for biclustering of web usage data, this method can automatically identify the groups of users that show similar browsing patterns under a specific subset of the pages. The results manifest that the proposed algorithm has the higher performance than the existing PSO methods.

The last paper in this issue, by Wu from Wuhan University of Technology (China) and Liuzhou Teachers College (China), presents hybrid semi-parametric regression ensemble (SRE) model was presented for rainfall forecasting. In this model, three linear regression models
are used to capture rainfall linear characteristics and three nonlinear regression model based on ANN are able to capture rainfall nonlinear characteristics. The semi-parametric regression is used for ensemble model based on the principal component analysis technique. Empirical results obtained reveal that the prediction using the SRE model is generally better than those obtained using the other models presented in this study in terms of the same evaluation measurements.

In closing, I would like to thank IGI Global, for making IJAEC possible. In addition, since IJAEC is a collaborative effort from all members of the Editorial Board, the comitted work reveals the diverse topics in EC, I would like to take this opportunity to thank each member for her/his valuable cooperation. All papers submitted to IJAEC undergo a comprehensive review process under the valuable suggestions from each member of Editorial Board. Each paper receives at least five reviews, based on which the Editorial Board member makes a recommendation. The Editorial Board members ensure all papers receive in-depth reviews before any decision is made. These decisions are reviewed by the Editor-in-Chief. I would also like to thank the authors who have chosen IJAEC as a medium to publish their research results. I hope that readers will find these articles useful, informative, and innovative and I am looking forward to hearing your comments, criticisms and suggestions to continuously enhance it and serve you better. You are also invited to contribute to IJAEC according to your interests and expertise.

Enjoy your reading and do not hesitate to send us your thoughts about these papers as well as your own research paper in the exciting field of evolutionary computation! We look forward to reading from you soon, and stay with us.

Wei-Chiang Samuelson Hong
Editor-in-Chief
IJAEC