Introduction

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This special issue is based on the 7th International Conference on Computational Intelligence and Security (CIS 2011) held in Sanya, China, on December 3–4, 2011. The CIS is a major annual international conference to bring together researchers, engineers, developers and practitioners from academia and industry working in all areas of two crucial fields in information processing: computational intelligence (CI) and information security (IS), to share the experience, exchange and cross-fertilize ideas. In particular, the series of CIS conference provides an ideal platform to explore the potential applications of CI models, algorithms and technologies to IS.

Out of 348 papers presented in technical sessions at the conference, authors of the twenty two papers considered to be the most innovative and original in methodologies and applications of computational intelligence and security were invited to submit "*substantially extended and updated manuscripts with additional original computational materials based on their most recent research*" for possible publication in this issue. It was also noted "*the overlap between the new submission and the paper published in the conference proceedings should not be more than 50%.*" Each submitted extended paper was reviewed subsequently by 4 to 9 reviewers using the journal review form. Finally, seven manuscripts passed through two rounds of the journal's rigorous review process successfully and were included in this issue.