

## Introduction

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The manuscripts included in this special issue grew out of the 10<sup>th</sup> International Conference on Artificial Intelligence Applications and Innovations (AIAI 2014), Rhodes, Greece, 19-21, September 2014. Conference organizers and chairmen were Yannis Manolopoulos, Aristotle University of Thessaloniki Greece, Andreas Andreou, Cyprus University of Technology, Cyprus and Tharam Dillon, Latrobe University Melbourne, Australia. The conference received over 130 submissions. About 62 papers were accepted for presentation and publication in the conference proceedings published by Springer in the IFIP AICT series (Advances in Information and Communication Technology) leading to an acceptance rate of less than 50%. The authors of the 21 papers considered to be the most innovative and original in terms of computing and information technologies 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. Each submitted extended manuscript went through the journal’s review process using the journal review form. They received between 3 and 6 reviews and underwent two cycles of reviews and re-reviews. The seven manuscripts included in this issue are those that passed through the journal’s review process successfully.

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