

Preface

Welcome to this new journal in the field of computational intelligence systems!

The *International Journal of Computational Intelligence Systems* aims to include state-of-the-art research and developments in all fields related to computational intelligence systems. The Journal mainly seeks peer-reviewed original research papers, and occasionally, critical review papers on the foundations of and new developments in computational intelligence. The focus will also be on publishing, in a timely manner, results from applications using new and emerging technologies originating from computational intelligence research. Applications may range from information technology and energy supply to environmental, societal and security related topics.

In this inaugural issue of the journal, seven papers are presented that are co-authored by 20 world-leading and active researchers in the field of Computational Intelligence Systems from as far afield as Australia, China, Italy, Japan, Korea, Spain, the UK, and the USA. For this first issue we have tried to find a balanced mixture of theory and applications in the field of Computational Intelligence Systems. The first paper by Yager investigates a number of measures relating to partitions that are useful for research in computational intelligence. In the second paper, Torra and Narukawa consider word similarity from dictionaries by inferring fuzzy measures from fuzzy graphs. The third paper by Liu *et al.* illustrates the evidential reasoning approach to an assessment of strategic R&D projects for car manufacturing. Lu *et al.*, in the fourth paper, apply Web-based fuzzy group decision support systems for team situation awareness. Zio *et al.*, in the fifth paper, develop a transforming method from an opaque fuzzy clustering-based classification model into a fuzzy-logic model based on transparent linguistic rules for fault diagnosis. In the sixth paper, Bien *et al.* present the recent developments in intelligent interaction with human-friendly service robots in a smart house environment. And finally, the last paper by Hines and Usynin provides an overview of current trends in research studies related to reliability prediction and prognostics.

The successful launch of this journal would not have been possible without the initiative of Atlantis Press from Paris. Thanks are due to all contributors, including all co-authors of this issue, all reviewers and all editorial board members of the journal for their kind co-operation in helping to launch this journal. May this journal become a truly comprehensive platform for the research world of computational intelligence techniques, methods and applications!

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