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Applications of Computational Intelligence

First IEEE Colombian Conference, ColCACI 2018
Medellín, Colombia, May 16–18, 2018
Revised Selected Papers

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Preface

The use of computational intelligence (CI) techniques in solving real-world and engineering problems is not alien to the Latin America (LA) region. Many LA scientists have focused their efforts on the CI field as a way to deal with problems of interest for the international community but also of great impact in the LA region. Many different areas including optimization of energy and transportation systems, computer-aided medical diagnoses, bioinformatics, mining of massive data sets, robotics and automatic surveillance systems, among many others, are commonly addressed problems from this part of the world, because of the great potential these applications could also have in developing countries. An increasing number of PhD graduates and PhD programs/students in LA related to CI and computer sciences are driving research in CI to increasingly higher standards and making it a common engineering technique in LA.

This way, the First IEEE Colombian Conference on Computational Intelligence (ColCACI 2018) offered a space to all scientists working on applications/theory of CI techniques. Although ColCACI started as a Colombian conference, we received 60 papers by authors from 12 countries, making ColCACI an international forum for CI researchers and practitioners to share their more recent advancements and results. This proceedings volume includes the 17 best papers presented at the conference.

We received a positive feedback from all participants, and so we will keep working on offering ColCACI in future editions and aim to grow. Finally, we would like to thank the IEEE Colombia Section, the Universidad de Antioquia (UdeA), the Universidad Antonio Nariño (UAN), the Universidad Distrital Francisco José de Caldas (UDistrital), all volunteers, all participants, and the whole crew that worked together to host a successful conference. See you at ColCACI 2019!

May 2018

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