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Bringing the 2012 IEEE World Congress on Computational Intelligence (IEEE-WCCI 2012) for the first time to Australia has been a fulfilling journey of joy and honour. This premier event of the IEEE Computational Intelligence Society (IEEE-CIS) brings together three flagship conferences of the society in even years.

It consisted of these conferences: the International Joint Conference on Neural Networks (IJCNN 2012), the IEEE International Conference on Fuzzy Systems (FUZZ IEEE 2012) and the 2012 IEEE Congress on Evolutionary Computation (IEEE CEC 2012).

This document presents the technical papers from the FUZZ IEEE 2012 conference, which had 476 submissions, of which, 305 were accepted.

We also wish to thank all program committee members for ensuring the quality of the accepted papers.

Hussein Abbass, General Chair

Daryl Essam and Ruhul Sarker, Publications Chairs

Canberra, Australia, 2012