NCEI'12 conference/workshop is a continuation of a previous conference series in NZ - ANNES, established in 1993. This conference aims at promoting research and development activities focused on advanced intelligent computing techniques by providing a vibrant and effective forum across a variety of disciplines. The scope of the conference includes a range of techniques such as Artificial Intelligence, Neural Networks, Evolutionary Computing, Brain Computer Interfaces, Informatics Theory and Applications, Computational Neuroscience, Neuromorphic computation, Bioinformatics, Pattern Recognition, Data Mining and Health Informatics. The workshop will publish an edited volume through the Springer Series of Bio- and Neuroinformatics. The NCEI 2012 workshop is organized as a pre-conference workshop held just before the WCCI'12 in Brisbane, Australia (June 10-15, 2012). This is to make the most of the expertise of many colleagues who want to visit one of New Zealand's leading research Institutes - the Knowledge Engineering and Discovery Research Institute (KEDRI) of the Auckland University of Technology, AUT (www.kedri.info) before the WCCI'12 and also to celebrate the 10 years of the establishment of KEDRI.

Suggested topics for the conference include, but are not limited to:
- Methods of computational intelligence
- Spiking Neural Networks
- Personalized Modeling
- Brain-Computer Interfaces
- Neuromorphic computation
- Computational Neurogenetic Modeling
- Bioinformatics
- Health informatics
- Data mining
- Neuroinformatics
- Pattern recognition

Preliminary list of confirmed Speakers:
- Giacomo Indiveri, Institute for Neuroinformatics, UZH-ETH Zurich, Switzerland;
- Zeng-Guang Hou, The Chinese Academy of Sciences, China;
- Plamen Angelov, Lancaster University, UK;
- Dimitar Filev, Ford, USA;
- Christer Carlsson, Åbo Akademi University, Finland;
- Robert Kozma, The University of Memphis, USA;
- Petar Kormushev, Italian Institute of Technology, Italy.

Submission and registration: All abstracts will be published in the NCEI'12 KEDRI publications. Selected papers will be published as a volume of the Springer series of Bio- and NeuroInformatics after the conference.

Registration fee: NZD 150.00

Sponsors: KEDRI; AUT University; Faculty of DCT; EU Marie Curie Grant EvoSpike, INI/ETH/ZURICH.