

# FUZZ-IEEE 2011 - Workshop Proposal

## Workshop on "Standards in Computational Intelligence"

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### Abstract

Computational Intelligence is a well established methodology based on theory, design, application, and development of biologically and linguistically motivated computational paradigms such as neural networks, genetic algorithms, evolutionary programming, fuzzy systems, and hybrid and distributed intelligent systems. From some time over the last several years this discipline has become of strong interest to developers of computer standards and interfaces. Indeed, coherent communications among the diverse set of users, designers and developers of computational intelligence frameworks is necessary for defining novel development scenarios based on unified and well-defined approaches whose aim is to enable strong improvements in the development of systems based on artificial neural networks, fuzzy systems, evolutionary programming. Current activities of the *Standards Committee of IEEE Computational Intelligence Society* encompass these areas, emphasizing the development of terminology and taxonomy, performance measures and interface standards for these interrelated research fields. The main aim of this workshop is to communicate the progress toward above mentioned goals and highlight how the computational intelligence standards definition could strongly support both academic scientists and corporation engineers in their daily research activities.

**Keywords:** Standards in Fuzzy Systems, Standards in Neural Computing, Standards in Evolutionary Computation

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### Workshop website:

[www.dmi.unisa.it/people/acampora/www/workshop.html](http://www.dmi.unisa.it/people/acampora/www/workshop.html) (under construction)