

## Sixth IEEE Symposium on Computational Intelligence for Security and Defense Applications

Special Session Title: **Computational Intelligence in Unmanned Aerial Vehicle**

### Special Session Organizer:

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### Description:

Unmanned aerial vehicles (UAV) or uninhabited combat vehicles operate in environments with high likelihood of damage and failure. The complexity is further increased by deciding what minimal flight-critical systems are and how to improve endurance. Thus, there is a need to design intelligent systems to provide for example autonomous flight trajectory reconfiguration for one or more UAVs in a variety of environments, and controller reconfiguration without affecting mission success. The objective of the special session is to explore the use of advanced computational intelligent techniques in:

- Navigation, Guidance, and Flight Control
- Path planning
- Coordination and control
- Task allocation
- Communications in UAVs
- SLAM for UAVs
- UAV vision
- Flight formation

### Paper Submission:

Prospective authors are invited to submit papers up to eight pages including results, figures and references. Authors submit their papers through online submission system. The details will be available at the website <http://www.ieee-cisda.org>

### Important Dates:

Paper submission: 10<sup>th</sup> October 2012

Notification of Acceptance: 5<sup>th</sup> January 2012

Final Submission: 5<sup>th</sup> February 2013