



Contribution ID: 33

Type: **Session**

## **Bio-inspired Algorithms in Grid.**

### **Abstract**

Bio-inspired Algorithms are techniques aim to optimize problems being widely applicable to diverse scientific areas. During the last two years, some emerging examples have appeared where bio-inspired algorithms together with grid computing are used to find optimal solutions in complex problems.

In this session, it is intended to overview the suitability of these algorithms to the grid computing paradigm, as well as, the most relevant showing cases. These cases should have a demonstration effect on the community cheering up the appearance of new collaborations. Furthermore, a brief study of the suitability of diverse techniques (genetic algorithm, particle swarm optimization, etc.) to the grid computing paradigm will be presented.

### **Please indicate your preferred day to give a demo.**

1hr

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Miguel Cárdenas (CIEMAT), Antonio Gómez (CIEMAT), Others (TBD)

### **Session Description (include details of proposed agenda, potential speakers and expected outcomes)**

Agenda (Tentative):

General revision of state of the art in relation with Bio-inspired applications and the grid.

Speakers: Miguel Cárdenas (CIEMAT), Antonio Gómez (CIEMAT), Others (TBD)

### **Project(s) or EGEE activity presenting the demo or poster (project or activity names only)**

EGEE, EUFORIA

### **Special requirements other than the set up mentioned in the CfA text.**

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**Track Classification:** End Users (Applications)