

### Novel Approaches in Dependable Computing

- some buzz words: immune inspired fault tolerance, immunotronics, self-healing, self-repair, autonomic computing, planetary computing, architectural reconfiguration;
- Are these new approaches really relevant for dependable computing?



## Novel Approaches in Dependable Computing

Moderator:

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Panellists:

- Algirdas Avizienis (A. Avizienis and Associates, Inc., USA)
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- Andreas Maier (IBM, Germany)
- José Luiz Fiadeiro (University of Lisbon, Portugal)
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#### **Biological Inspired Computing**

Rogério de Lemos

EDCC-4 - Panel "Novel Approaches" - 5



# **Opportunities & Challenges**

Opportunities:

- What the new approaches promise that the existing approaches are not able to achieve?
  - trustworthiness, scalability, adaptability and cost;
- What is the current evidence that these can be achieved?

Challenges:

What are the challenges that novel approaches face when applied to dependable systems?