



*SRDS 2007, Beijing, China*

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***Welcome to the Panel on:***

*Trends and Challenges in Service  
Availability and Security*



## ***The Panelists***

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- Yair Amir, Johns Hopkins University, USA
- Wei Chen, Microsoft Research Asia, China
- Xavier Defago, Japan Advanced Institute of Science and Technology (JAIST), Japan
- Neeraj Suri, Technical University of Darmstadt, Germany

Mirosław Malek, Humboldt University Berlin (moderator)



# ***The Permanent Challenge***

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**Dependability** and **Security** Problem is and will remain the key challenge due to:

- Ever-increasing systems complexity
- Growing connectivity, interoperability, friendly and unfriendly interactions
- Dynamicity (frequent configurations, reconfigurations)
- Systems proliferation to applications in all domains of human activity and growing user expectations
- Tense political and economic landscape and various interests



## ***More specifically***

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- Many degrees of freedom
- Changing [stochastic] dynamics and scale
- Commercial-off-the-shelf (COTS) components
- Patches, updates and upgrades
- Integration into legacy systems
- Ad hoc extensions and ad hoc reconfiguration
- Novice users
- Hostile attacks, cyber extortions, phishing, spammers, freeloaders, spoofers,...



# *The Question*

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Since **service availability** and **security** will remain one of the fundamental concerns as users expectations, system complexity and dynamicity continuously increase:

What are the key challenges from:

- ✦ theory
  - ✦ practice, and
  - ✦ systems
- perspective?