



*DSN 2009
Workshop on
Architecting Dependable System*

DSN 2009 WADS

*29 June 2009
Estoril, Lisbon - Portugal*



A brief history of WADS

- ◆ it all started at ICSE 2002
 - ◆ with Cristina Gacek, Rogério de Lemos, and Sascha Romanovsky

- ◆ it will end at DSN 2009
 - ◆ with Antonio Casimiro, Cristina Gacek, and Rogério de Lemos
 - ◆ along the way with the help from Felicita Di Giandomenico, and Jean-Charles Fabre

- ◆ but it will continue at ISARCS 2010
 - ◆ with Holger Giese as the PC Chair

1st International Symposium *on* **Architecting Critical Systems** (ISARCS 2010)



www.isarcs.org/isarcs2010

Federated with
CompArch 2010

Program Chair

Holger Giese

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IMPORTANT DATES (tentative):

Submission deadline

February 2010

Author notification

March 2010

Publication ready copy

April 2010



A detailed history of WADS

Workshops

- ◆ ICSE WADS
2002/2003/2005
- ◆ ICSE/DSN WADS 2004
- ◆ DSN WADS
2006/2007/2008

Journal of Systems and Software
79(10). October 2006.

- ◆ Special Issue on
Architecting Dependable
Systems

Architecting Dependable Systems 7. LNCS. Springer. 2010.

- ◆ invited submissions
- ◆ past and current contributors, and other interesting work

Architecting Dependable
Systems (ADS).
Springer. Germany.

- ◆ ADS 6. Forthcoming
- ◆ ADS 5. LNCS 5135. 2008
- ◆ ADS 4. LNCS 4614. 2007
- ◆ ADS 3. LNCS 3549. 2005
- ◆ ADS 2. LNCS 3069. 2004
- ◆ ADS. LNCS 2677. 2003



DSN WADS 2009

- ◆ **DSN 2009 WADS**

- ◆ **Architectures for Mobile and Ubiquitous Systems**

- ◆ Antonio Casimiro, Rogério de Lemos, Cristina Gacek

- ◆ **DSN 2008 WADS**

- ◆ **Dependable Service Oriented Architectures**

- ◆ Rogério de Lemos, Jean-Charles Fabre, Cristina Gacek

- ◆ **DSN 2007 WADS**

- ◆ **Architecting Critical Infrastructures**

- ◆ Rogério de Lemos, Felicita Di Giandomenico, Cristina Gacek



DSN WADS 2009 Program

8:30 Welcome & Introductions

8:45 *Session A - Architecting Dependability*

Keynote - **Paola Inverardi** (Università dell'Aquila, Italy)

10:00 Coffee

10:30 *Session B - Software Architectures and Dependability*

Invited Talk - **Holger Giese** (HPI, Germany)

12:00 Lunch

13:30 *Session C - Architectures for Mobile and Ubiquitous Systems*

Invited Talk - **Vincenzo De Florio** (University of Antwerp, Belgium)

15:00 Coffee

15:30 *Session D - What is the Future in Architecting Critical Systems?*

17:00 End



DSN WADS 2009 Program

Session A - Architecting Dependability

Chair: *Cristina Gacek*

- | | | |
|-------|---|------------------------|
| 8:45 | Keynote: <i>Assessing Dependability for Mobile and Ubiquitous Systems: Is there a Role for Software Architectures?</i> | <i>Paola Inverardi</i> |
| 9:45 | Discussion | |
| 10:00 | Coffee | |



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Session B - Software Architectures and Dependability

Chair: *Rogério de Lemos*

10:30	Invited Talk: Architecting Self-Adaptive Critical Systems: Contradiction or Panacea?	<i>Holger Giese</i>
11:00	The SOA Dependability Cube	<i>G. Fletcher, I. Owens</i>
11:15	Fault Tree Generation from EMF Models	<i>C. Lauer, R. German, J. Pollmer</i>
11:30	Discussion	
12:00	Lunch	



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Session C - Dependable Service Oriented Architectures

Chair: *Antonio Casimiro*

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|-------|--|--|
| 13:30 | Invited Talk: On the Design of Adaptive-and-Dependable Systems | <i>Vincenzo De Florio</i> |
| 14:30 | Tongo: A framework for Supporting Mobile Application Architectures | <i>D. Correal, D. Ramirez, T. Hernandez, N. Diaz</i> |
| 14:45 | Data Backup for Mobile Nodes: a Cooperative Middleware and Experimentation Platform | <i>M.-O. Killijian, M. Roy, G. Séverac, C. Zanon</i> |
| 15:00 | Identification of authenticity requirements in systems of systems by functional security analysis | <i>A. Fuchs, R. Rieke</i> |
| 15:15 | Discussion | |
| 15:25 | Coffee | |



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Session B - What is the Future in Architecting Critical Systems?

15:30 Breakout discussions

16:30 Plenary

16:50 Wrap-up / Future Directions

17:00 End