

Schedule

MONDAY

7:30 - 8:45

Breakfast

9:00 - 10:30

Welcome, Announcements, and Introduction of Participants

(Each participant should introduce herself/himself – either with a presentation (2.5 minutes talk time, max. 2 slides sent to us by Sunday evening) or without slides (1 minute talk time))

10:30 - 11:00

Coffee break

11:00 - 12:00

Introductory Presentation - Onn Shehory

Software Self-Healing - Towards Generic, Industry-Grade Solutions?

12:00 - 13:30

Lunch

13:30 – 15:00

S1: CHALLENGES IN FAULT DETECTION AND DIAGNOSIS

Wilhelm Hasselbring

Automatic Failure Diagnosis Support in Distributed Large-Scale Software Systems
Based on Timing Behavior Anomaly Correlation

Mirosław Malek

Runtime Monitoring for Proactive Fault Management

Henry Muccini

Verification and Validation of Continuously Evolving Systems

Gabi Dreó Rodosek

Why is event correlation, anomaly detection and fault diagnosis so hard?

Andreas Zeller

Programs that fix themselves

15:00-15:30

Coffee break

15:30 – 17:30

S2: ARCHITECTURES AND PARADIGMS FOR SELF-* SYSTEMS

Hartmut Schmeck

Organic Computing - a Generic Approach to Controlled Self-organization in
Adaptive Systems

Wilhelm Hasselbring

Adaptive Capacity Management for Resource-efficient, Continuously Operating
Software Systems

Frank Eliassen

Self-adaptative Systems-of-Systems

Burkhard Stiller

(preliminary title) Methodologies for self-healing systems applied in terms of
economic traffic management mechanisms

Grégoire Danoy

Self-Adaptive Coevolutionary Optimization Using Reorganizational Multi-Agent
Systems

Giovanna Di Marzo

Designing and Controlling Trustworthy Self-* Systems

Serugendo

17:30 – 18:00

(Break)

18:00 - 19:30

Dinner

19:30 – 20:00

(Break)

20:00 - 20:30

Planning of working groups

20:30 – open end

Working groups

TUESDAY

7:30 - 8:45

Breakfast

9:00 – 10:00

S3: SYSTEM SUPPORT FOR SELF-HEALING

Theo Ungerer

A Virtualization Architecture for Many-cores with Real-time Constraints and Self-X Support

Artur Andrzejak

A case for transparent software rejuvenation

Andrea Polini

Monitoring Architectural Properties in Dynamic Component-Based Systems

10:00 - 10:30

Coffee break

10:30 - 12:00

Working groups

12:00 - 13:30

Lunch

13:00 – 15:00

S4: MANAGING PROBLEMS IN IT INFRASTRUCTURES

Tudor Dumitras

Why do upgrades fail and what can be done about it?

Moises Goldszmidt

On the road toward self-healing datacenters

Leonardo Mariani

In-the-field Self-Healing

John Wilkes

How much is self healing worth?

Elaine Wong

The day when decision support systems adapt to the failings of humans and start making decisions

15:00-15:30

Coffee break

15:30 – 17:30

S5: SOFTWARE ENGINEERING APPROACHES FOR SELF-ADAPTATION AND SELF-HEALING

Kurt Geihs

Challenges for the Model-Driven Development of Self-Adaptive Applications

Josu Martinez

Functionality Recomposition for Self-Healing

Holger Giese

On the Role of Models for Self-Healing and Self-Adaptive Systems

Roland Reichle

Context modeling and reasoning for adaptive applications in ubiquitous computing environments

Tiziana Margaria-Steffen

Component-Oriented Behavior Extraction for Autonomic System Design

Ansley Post

Autonomous storage management for personal devices with PodBase (talk with Rodrigo Rodrigues)

17:30 – 18:00

(Break)

18:00 – 19:30

Dinner

19:30 – 20:00

(Break)

20:00 – 21:00

Open mic discussion

WEDNESDAY

7:30 - 8:45

Breakfast

9:00 - 10:00

Working groups

10:00 - 10:30

Coffee break

10:30 - 12:00

Exposing disagreements (work-group status)

12:00 - 13:30

Lunch

13:30 - 13:45

Photo of all participants

13:45 - open end

Mosel Valley Tour

THURSDAY

7:30 - 8:45

Breakfast

9:00 – 10:30

S6: EXPLOITING LEARNING AND MODELING TECHNIQUES

Christian Müller-Schloer
Felix Salfner
Jens Happe
Paul A. S. Ward

Sandbox Learning: Try without error?
Failure Prediction for Proactive Fault Management
Towards Performance and Reliability Prediction for Self-adaptive Systems
Cost-Aware and Adaptive Modeling and Monitoring for Problem Determination

10:30 - 11:00

Coffee break

11:00 – 12:00

S7: SELF-* METHODS IN APPLICATIONS AND SERVICES

Volker Markl
Umesh Bellur
Cinzia Cappiello

Robustness in Query Optimization
A Programming Model and Run-Time Architecture for Adaptive Service Orientation
Quality-aware design of dependable process

12:00 - 13:30

Lunch

13:30 – 15:00

S8: DIAGNOSIS AND HEALING IN PARALLEL AND DISTRIBUTED SYSTEMS

Derrick Kondo
Benjamin Satzger
Priya Narasimhan
Bohuslav Krena
Simin Nadjm-Tehrani

Towards CloudComputing@home
Generic techniques for self-healing distributed systems
Automated Online Fingerpointing in Large Distributed Systems
Self-Healing for Concurrent Software
Recovery, built-in adaptation, and the update problem: The good, the bad, and the ugly

15:00 – 15:30

Coffee break

15:30 – 17:30

Working groups

17:30 – 18:00

(Break)

18:00 – 19:30

Dinner

FRIDAY

7:30 - 8:45

Breakfast

9:00 – 10:00

S9: USE CASES AND APPLICATIONS OF SELF-ADAPTATION

Ralf König
Markus Schmid
Hartmut Schmeck

Engineering of IT management automation along tasks, loops, function allocation, implementation method catalog
Self-organizing QoS-Management in Service Oriented Architectures
Organic Energy Management – controlled and self-organized adaptive demand side management in the energy system

10:00 - 10:30

Coffee break

11:00 - 11:30

Exposing agreements (work-group reports)

11:30 - 12:00

Official closing

12:00 - 13:30

Lunch

Overview

Time	Monday	Tuesday	Wednesday	Thursday	Friday
9 0	Welcome Announcements Introduction of Participants	S3	Working groups	S6	S9
9 15					
9 30					
9 45					
10 0		Coffe break	Coffee break		Coffee break
10 15					
10 30	Coffee break	Working groups	Exposing disagreements (work-group status)	Coffee break	Exposing agreements (work-group reports)
10 45					
11 0	Introductory presentation			S7	
11 15					
11 30					Official closing
11 45					
12 0	Lunch	Lunch	Lunch	Lunch	Lunch
12 15					
12 30					
12 45					
13 0					
13 15					
13 30	S1	S4	Photo of all Mosel Valley Tour	S8	
13 45					
14 0					
14 15					
14 30					
14 45					
15 0	Coffee break	Coffee break		Coffee break	
15 15					
15 30	S2	S5		Working Groups	
15 45					
16 0					
16 15					
16 30					
16 45					
17 0					
17 15					
17 30					
17 45					
18 0	Dinner	Dinner		Dinner	
18 15					
18 30					
18 45					
19 0					
19 15					
19 30					
19 45					
20 0	Planning of working groups	Open mic discussion			
20 15	Working Groups				
20 30					
20 45					
21 0					
21 15	(open end)		(open end)		