



SARIT Annual Report 2010



Swiss Association for Research in Information Technology

www.sarit.ch

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Cover page illustration:

A blindfolded person following a red serpentine line by means of musical sounds only (SeeColor project, a cooperation between UNI and HES-SO Geneva funded by the Hasler Foundation)

HIGHLIGHTs 2010

- ◆ The nomination of José Rolim as new SARIT President
- ◆ The creation of SI-CHIP, a new association regrouping the Heads of IT Departments in Switzerland
- ◆ The organization of the ERCIM Execom at EPF Lausanne

SARIT in EU projects via ERCIM

- ◆ PrimeLife - Privacy and Identity Management in Europe for Life

IBM Research

In their daily interaction over the Internet, individuals contribute throughout their life leaving a life-long trail of personal data. Technological advances facilitate extensive data collection, unlimited storage and reuse of the individual's digital interactions. Today, individuals cannot protect their autonomy and cannot retain control over personal information, irrespective of their activities, as present information technologies hardly consider these requirements. This raises substantial new privacy challenges: how to protect privacy in emerging Internet applications such as collaborative scenarios and virtual communities; and how to maintain life-long privacy. The project started in 2008 and will end in February 2011

The year 2010 was marked by a substantial drop of successful participation of ERCIM in EU projects

The participation of ERCIM in EU projects has been suffering from a lack of success in the last 3 years, and has led to a strong reduction of the ERCIM Office staff dealing with projects. The ERCIM Office will continue offering project management support services for specific Integrated Projects and Coordination and Support Actions in the future, but this activity will not be a top priority for the ERCIM Office anymore.

ERCIM News



January 2010
No. 80

**Digital
Preservation**



April 2010
No. 81

**Simulation &
Modeling**



July 2010
No. 82

**Computational
Biology**



October 2010
No. 83

**Cloud
Computing**

Contributions from SARIT and other Swiss researchers:

Magnetic Tape Storage and the Growth of Archival Data
by Jens Jelitto, Mark Lantz and Evangelos Eleftheriou
(in issue No. 80)

Protein Homology Modelling - Providing Three-dimensional Models for Proteins
where Experimental Data is Missing
by Jürgen Haas and Torsten Schwede
(in issue No. 82)

Integration of an Electrical Vehicle Fleet into the Power Grid
by Carl Binding, Olle Sundström, Dieter Gantenbein and Bernhard Jansen
(in issue No. 82)

Teaching Traffic Lights to Manage Themselves.... and Protect the Environment
by Dirk Helbling and Stefan Laemmer
(in issue No. 83)

ERCIM Working Groups

New Working Group:

- ◆ **Media Technology and Edutainment**
(launched December 2010)

Active Working Groups:

- ◆ **Computing & Statistics**
 - SARIT members: Francesco Audrino, UNI SI (Lugano), Marc Paoella, Swiss Bank Institute, UNI ZH, Bernd Schips, Martin Gutknecht, Peter Buehlmann, Peter Arbenz, ETHZ, Anthony Davison, Darlene Goldstein, EPFL, Mauro Delorenzi, SIB, Lausanne, Mark Wildi, Marcel Dettling, ZHAW, Petko Yanev, Christian Gatu, UNI Neuchatel, Olivier Renaud, Elvezio Ronchetti, Manfred Gilli, UNI Geneva, Constantinos Bekas, IBM Research, Anthony J. Rossini, Novartis Pharma AG
 - 16 publications - 2 events
 - URL: <http://www.cfe-csda.org/ercim>
- ◆ **E-Mobility**
 - SARIT members: Torsten Braun (WG leader), UNI Bern, Helmar Burkhart, Phuong Ngugen UNI Basel, Thomas Di Giacomo, Dimitri Konstantas, UNI Geneva, Kurt Baumann, Fiorenzo Scaroni, SWITCH
 - 6 joint publications - 5 workshops - 3 fellows/visitors
 - 3 COST Actions:
 - Wireless Networking for Moving Objects (WiNeMO)
http://www.cost.esf.org/domains_actions/ict/Actions/IC0906-WiNeMO-Wireless-Networking-for-Moving-Objects
 - Data Traffic Monitoring and Analysis (TMA)
<http://www.tma-portal.eu>
 - Energy efficiency in large scale distributed systems
<http://www.irit.fr/cost804/>
 - 1 EU project: "Enhanced, Ubiquitous and Dependable Broadband Access using MESH Networks" <http://www.eu-mesh.eu>
 - URL: <http://wiki.ercim.eu/wg/eMobility/>
- ◆ **Formal Methods for Industrial Critical Systems**
 - 3 joint publications - 1 workshop
 - 1 EU project (ending in 2010): EC-MOAN
<http://www.ec-moan.org/>
 - URL: <http://www.inrialpes.fr/vasy/fmics/index.html>

◆ **Grids, P2P and Services**

- SARIT Member: Pierre Kuonen, HES-SO Fribourg
- Main contributors of ERCIM news issue on Cloud Computing
- 38 joint publications - 6 events - 2 fellows/visitors
- 1 COST Action: "Open European Network for High Performance Computing on Complex Environments" <http://complexhpc.org/>
- 2 EU Projects:
 - Grid-friendly software licensing for location independent application execution, SmartLM www.smartlm.eu
 - Optimising Cloud Infrastructure Services, OPTIMIS www.optimis-project.eu
- URL: <http://www.coregrid.net/>

◆ **Security and Trust Management**

- SARIT members: David Basin, Karima Boudaoud, Cas Cremers, Rolf Haenni, Solange Ghernaouti Helie, Heiko Mantel, Thierry Pun, Yuriy Ryts, Jean-Marc Seigneur, Ulrich Ultes-Nitsche, Luca Vigano, Slava Voloshynovskiy, Alexander L. Wolf, Guenter Karjoth (IBM)
- 1 international workshop (during STM 2010)
- 1 EU project: Network of Excellence on Engineering Secure Future Internet Software Services and Systems, NESSOS, IST-256980 <http://www.nessos-project.eu/>
- URL: <http://www.iit.cnr.it/STM-WG>

◆ **Social Network Analysis**

- SARIT members: Stephane Marchand-Maillet, Eric Bruno, UNI Geneva
- 1 event
- 1 EU proposal – call 7 (on evaluation) - Building an Experimental Facility for MOBILE SOcial Networking Applications (FAMOSO)
- URL: <http://cliquecluster.org/content/ercim-social-network-analysis-group>

◆ **Software Engineering for Resilient Systems**

- SARIT member: Didier Buchs, UNI Geneva
- 1 event
- 1 EU project - DIAMONDS (ITEA2, 1 year project) http://www.fokus.fraunhofer.de/en/motion/projekte/laufende_projekte/DIAMONDS/index.html
- URL: <http://rise.uni.lu/tiki/tiki-index.php>

◆ **Software Evolution**

- SARIT members: Mehdi Jazayeri, Michele Lanza, UNI SI (Lugano), Oscar Nierstrasz, UNI Bern
- 9 joint publications - 3 workshops – 2 fellows/visitors
- 1 EU project: REMICS - Reuse and Migration of legacy applications to Interoperable Cloud Services <http://www.remics.eu/>
- URL: <http://wiki.ercim.eu/wg/SoftwareEvolution>

Inactive Working Groups¹:

- ◆ **Constraints**
 - SARIT members : non disclosed
 - URL: <http://wiki.ercim.eu/wg/Constraints>
- ◆ **Data Information Spaces**
 - SARIT members: Annette Guignard, Moira C. Norrie, ETHZ, Heiko Schuldt, UNI Basel
 - URL: <http://wiki.ercim.eu/wg/DIS>
- ◆ **Dependable Software-Intensive Embedded Systems**
 - SARIT members: non disclosed
 - URL: <http://www.ercim.at/>
- ◆ **Digital Patient**
 - SARIT members: Daniel Thalmann, Ehsan Arbabi, EPFL, Nadia Magnenat-Thalmann, Benjamin Gilles, Gwenael Guillard, UNI Geneva, Miguel Gonzalez, Philippe Büchler, Mauricio Reyes, UNI Bern
 - URL: <http://www.ics.forth.gr/bmi/digitalP>
- ◆ **Environmental Modelling**
 - SARIT members: none
 - URL: <http://ercim.first.fraunhofer.de>
- ◆ **IM2IM - IT and Mathematics applied to Interventional Medicine**
 - SARIT members: Vartan Kurtcuoglu, Gabor Szekely, ETHZ, Esra Neufeld, Dominik Szczerba, IT IS Foundation, Michael Oberle, SPEAG, Alfio Quarteroni, Simone Deparis, EPFL
 - URL: <http://wiki.ercim.eu/wg/IM2IM/>
- ◆ **Image and Video Understanding**
 - SARIT members: Thierry Pun, Sviatoslav Voloshynovskiy, Stéphane Marchand-Maillet, UNI Geneva
 - Change of WG chair in October 2010
 - URL: http://wiki.ercim.eu/wg/MUSCLE/index.php/Main_Page
- ◆ **Models and Logics for Quantitative Analysis**
 - SARIT members: none
 - URL: http://wiki.ercim.eu/wg/MLQA/index.php/Main_Page
- ◆ **Sensor Web**
 - SARIT members: non specified
 - URL: <http://wiki.ercim.eu/wg/SensorWeb/>

ERCIM Fellowship Programme

- ◆ Naya Plasencia @ University of Applied Sciences Northwestern Switzerland.

¹ Based on the 2010 WG activity report – status March 7th, 2011

ERCIM Cor Baayen Award Nominees

1 nomination from SARIT, Olaf Zimmermann, IBM Research.

The winner of the Award in 2010 was Andrea Esuli.

ERCIM Board of Directors and Executive Committee

SARIT organized the meeting of the Execom of ERCIM on 22-23 April 2010 at EPF Lausanne. The President of SARIT invited the Execom on a Lake Cruise for dinner.

Daniel Thalmann participated to the following meetings:

- May 20-21, Amsterdam, Board of Directors
- Extra-ordinary BoD, Amsterdam Airport

Patrick Furrer participated to the following meetings

- April 22-23, Lausanne, PTG Meeting & Execom
- May 20-21, Amsterdam, PTG Meeting
- September 23-24, Trondheim, PTG Meeting & Execom
During this meeting, Patrick was elected interim
"Chair of the ERCIM Projects Task Group"
- November 4-5, Brno, Board of Directors (representing SARIT)

Swiss IFIP Committee

Nominations to SIC in 2010:

- ◆ TC 2 Software - Theory and Practice: Bertrand Meyer resigned, position is open
- ◆ TC 8 Information Systems: Yves Pigneur resigned, replaced by Robert Winter, UNI St Gallen
- ◆ TC 9 ICT and Society: Lorenz Hilti resigned, replaced by Jean-Loup Chappelet, IDHEAP and UNI Lausanne

Special case:

TC 6 Communication Systems. Current representative Harry Rudin. A second delegate position representing the users/user associations is still open.

For more info:

<http://www.ictswitzerland.ch/de/kommissionen/swiss-ifip-committee>

Swiss RELATED ACTIVITIES

A new SARIT President was elected, following the retirement of Daniel Thalmann. SARIT's new president is José Rolim, from UNI Geneva.

Insight into 2011

- ERCIM has started its restructuration, which will happen in 2011. This will favour a membership model based on institutions (but will accept for a transition phase the associations like SARIT).
- A reunification of SARIT and SI-CHIP is programmed for 2011. A closer cooperation with SI and a more intimate involvement of Heads of IT Departments (from UNI, ETH and UAS in Switzerland) should foster a stronger position of the Swiss ICT Research stakeholders both on the national and international scenes.

Financial Report²

Balance Sheet		Accounts 31.12.2009	Accounts 31.12.2010
Assets			
• Bank Accounts	Savings Account	140'419.75	86'728.45
	Current Account	47'463.66	17'403.00
• Withholding tax		537.05	711.75
• Transient assets		800.00	32'400.00
Total assets		189'220.46	137'243.20
Liabilities			
• Transient Liabilities		28'332.63	0.00
• Special reserves - ERCIM exchanges		28'000.00	28'000.00
Subtotal		56'332.63	28'000.00
Equity			
• Equity at 1 January		138'596.59	132'887.83
• Profit/Loss of the year		-5'708.76	-23'644.63
• Equity at 31 December		132'887.83	109'243.20
Total liabilities		189'220.46	137'243.20
Income Statement			
	Accounts 2009	Budget 2010	Accounts 2010
Expenses			
• SARIT office	5'101.13	5'000	5'093.34
• Event expenses	1'948.00		
• Information + Public Relations	17.00	500	17.00
• ERCIM	38'718.13	30'000	35'012.49
• ERCIM Fellowship Programme	9'250.00	10'000	35'000.00 ³
• IFIP activities and ICTswitzerland	5'609.00	6'000	5'621.00
• at discretion of the Board	2'000.00	2'000	
• other expenses		2'000	
Total expenses	62'643.26	55'500	80'743.83
Revenues			
• Member contributions	16'300.00	15'000	16'600.00
• Event revenues			
• Contribution SBF (for ERCIM)	30'000.00	30'000	30'000.00
• Sponsors (ETHZ and EPFL)	10'000.00	10'000	10'000.00
• Interest revenues	634.50	600	499.20
• Other revenues			
• Dissolution of special reserves (ERCIM)			
Total revenues	56'934.50	55'600	57'099.20
Profit/Loss of the year	-5'708.76	100.00	-23'644.63

23.03.2011 / W.Gander - C.A. Zehnder

² This financial statement is still provisorial at the time of publication of the annual report.

³ Full payment due to unpredictable program changes of an ERCIM fellow

Acknowledgement

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