

**Tunisia – Japan Workshop on
Symbolic Computation in Software Science (SCSS 2009)**

Program

September 22, 2009

8:30 – 9:00 *Registration*

9:00 – 10:30 **Official Opening Session**

**Welcome speech by
Professor Adel Bouhoula (Sup'Com - University of November 7th at Carthage, Tunisia),
President of the Tunisian Association of Digital Security, and Co-chair of SCSS 2009**

**Welcome speech by
Professor Tetsuo Ida (University of Tsukuba, Japan),
Co-chair of SCSS 2009**

**Opening speech by
Mrs. Lamia Sghair Chaffai,
Secretary of State for Informatics, Internet and Open Source Software, Tunisia**

10:30 – 11:00 *Coffee Break*

Invited Talk

Chair: Tetsuo Ida (University of Tsukuba, Japan)

11:00 – 12:00 **Invited talk by
Professor Henk Barendregt from Radboud University Nijmegen, Netherlands**
Interpretations of Incompatible Mathematical Theories & Applications

12:00 – 14:00 *Lunch Break*

Session 1

Chair: Mohamed Mosbah (LaBRI-University of Bordeaux 1, France)

14:00 – 14:30 **Kazuko Takahashi (Kwansei Gakuin University, Japan) and
Shizuo Yoshimaru (Kwansei Gakuin University, Japan)**
Formalization of Data Conversion for Inductive Proof

14:30 – 15:00 **Nikolaj Popov (Johannes Kepler University Linz, Austria) and
Tudor Jebelean (Johannes Kepler University Linz, Austria)**
Verification of Mutual Recursive Functional Programs

15:00 – 15:30 **Randy Pollack (University of Edinburgh, UK) and
Masahiko Sato (Kyoto University, Japan)**
A Canonical Local Representation of Binding

15:30 – 16:00 *Coffee Break*

Session 2

Chair: Temur Kutsia (Johannes Kepler University of Linz, Austria)

16:00 – 16:30 **Hassan Ait-Kaci (IBM Canada Ltd.)**
LIFE Su Doku

16:30 – 17:00 **Pierre Castéran (University of Bordeaux 1, France),
Vincent Filou (LaBRI-University of Bordeaux 1, France) and
Mohamed Mosbah (LaBRI-University of Bordeaux 1, France)**
Certifying Distributed Algorithms by Embedding Local Computation Systems in the Coq Proof Assistant

Invited Talk **Chair: Adel Bouhoula (Sup'Com - University of November 7th at Carthage, Tunisia)**

9:00 – 10:00 **Invited talk by**
Professor Stephen Watt (University of Western Ontario, Canada)
Symbolic Symbolic Computation

10:00 – 10:30 *Coffee Break*

Session 3 **Chair: Sihem Guemara El Fatmi (Sup'Com - University of November 7th at Carthage, Tunisia)**

10:30 – 11:00 **Temur Kutsia (Johannes Kepler University of Linz, Austria) and**
Mircea Marin (University of Tsukuba, Japan)
Matching of Order-Sorted Terms with Regular Expression Sorts and Second-Order Variables

11:00 – 11:30 **Nihel Ben Youssef (Sup'Com - University of November 7th at Carthage, Tunisia),**
Adel Bouhoula (Sup'Com - University of November 7th at Carthage, Tunisia) and
Florent Jacquemard (INRIA Saclay - LSV (CNRS/ENS Cachan), France)
Automatic Verification of Conformance of Firewall Configurations to Security Policies

11:30 – 12:00 **Sourour Meharouech (Sup'Com - University of November 7th at Carthage, Tunisia)**
Adel Bouhoula (Sup'Com - University of November 7th at Carthage, Tunisia)
Tarek Abbes (ISECS – University of Sfax, Tunisia)
Problems of Network Address Translation on Security Devices

12:00 – 14:00 *Lunch Break*

Session 4 **Chair: Yahya Slimani (University El Manar Tunis, Tunisia)**

14:00 – 14:30 **Mohamed Ali Ayachi (SUPELEC/SUPCOM, France/Tunisia),**
Christophe Bidan (Supelec Rennes, France),
Tarek Abbes (ISECS, Tunisia) and
Adel Bouhoula (Sup'Com - University of November 7th at Carthage, Tunisia)
Implicit Trust Analysis of the AODV Routing Protocol

14:30 – 15:00 **Ryma Abassi (Sup'Com - University of November 7th at Carthage, Tunisia) and**
Sihem Guemara El Fatmi (Sup'Com - University of November 7th at Carthage, Tunisia)
Formal Test Cases Generation for Security Policies

15:00 – 15:30 **Ryma Abassi (Sup'Com - University of November 7th at Carthage, Tunisia),**
Mohamed Mejri (Laval University, Canada) and
Sihem Guemara El Fatmi (Sup'Com - University of November 7th at Carthage, Tunisia)
Specification, Verification and Optimization of a Security Network Configuration

15:30 – 16:00 *Coffee Break*

Software Demo Session **Chair: Kazuko Takahashi (Kwansei Gakuin University, Japan)**

16:00 – 16:30 **Taiichi Yuasa (Kyoto University, Japan)**
Extending a Lisp-in-Java for SICP Homework

16:30 – 16:50 **Mohamed Mosbah (LaBRI-University of Bordeaux 1, France)**
Visidia: a software tool for visualizing, simulating and proving distributed algorithms

16:50 – 17:10 **Score (University of Tsukuba, Japan)**
Eos: Computational Origami System

18:00 - *Workshop Dinner*

Invited Talk

Chair: Masahiko Sato (Kyoto University, Japan)

9:00 – 10:00

Invited talk by
Professor Dongming Wang from
School of Mathematics and Systems Science Beihang University, China, and
University Pierre et Marie Curie – CNRS, France
Basic Elements of Computer Geometry

10:00 – 10:30

Coffee Break

Session 5

Chair: Mircea Marin (University of Tsukuba, Japan)

10:30 – 11:00

Mohamed Tounsi (LaBRI-University of Bordeaux 1, France) and
Mohamed Mosbah (LaBRI-University of Bordeaux 1, France)
Automatic Implementation of Distributed Algorithms Specified in Event-B

11:00 – 11:30

Ines Bouzouita (Faculty of Sciences of Tunis, Tunisia),
Michel Liquiere (University Montpellier 2, France) and
Samir Elloumi (Faculty of Sciences of Tunis, Tunisia)
A New Associative Classification Approach Based on Cover Set Algorithm

11:30 – 12:00

Fadoua Ghourabi (University of Tsukuba, Japan),
Tetsuo Ida (University of Tsukuba, Japan) and
Dongming Wang (University Pierre et Marie Curie – CNRS, France)
Theorem Proving Based on the Characteristic Set Method for Computational Origami
Constructions

12:00 – 12:30

Closing

12:30 – 14:00

Lunch Break

14:00 -

Visit to historical sites

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