

Tuesday 15th July

09:00 PPDP - Invited Talk (Chair: E. Albert)

M. Leuschel
Declarative Programming for Verification: Lessons and Outlook

10:00 - 10:15 Short break

10:15 PPDP - Session 1 (Chair: M. Bruynooghe)

C. Olarte and F. D. Valencia
On the Expressiveness and Semantics of Universal Timed Concurrent Constraint Programming
M. Sulzmann and E. Lam
Parallel Execution of Multi-Set Constraint Rewrite Rules

10:15 PLID - Keynote Talk (Chair: S. Genaim)

Gilles Barthe
Formal Certification of Code-Based Cryptographic Proofs

11:15 - 11:45 Coffee break

11:45 PPDP - Session 2 (Chair: M. Hanus)

J. Morales, M. Carro and M. Hermenegildo
Comparing Tag Scheme Variations Using an Abstract Machine Generator
P. F. Silva and J. Oliveira
'Gcalculator': Functional Prototype of a Galois-Connection Based Proof Assistant
R. Plasmeijer, J. M. Jansen, P. Koopman and P. Achten
Declarative Ajax and Client Side Evaluation of Workflows using iTasks

11:45 PLID - Session 2 (Chair: R. Giacobazzi)

D. Clark
Amorphous Slicing of Extended Finite State Machines
M. Llorens
Dynamic Slicing Techniques for Petri Nets
M. R. Laurence
Weises's Algorithm Computes Minimal Path-Faithful Slices of Function-Linear, Free Program Schemas

13:30 - 15:00 Lunch

14:30 PLID - Session 3 (Chair: D. Clark)

D. Zanardini
Abstract Program Slicing
B. Felgin
Decompilation is an Information-Flow Problem
E. Visentini
Hiding Software Watermarks in Polyhedra

15:00 PPDP - Session 3 (Chair: M. Hermenegildo)

M. Hanus
Call Pattern Analysis for Functional Logic Programs
R. Pechoux and J.-Y. Marion
Characterizations of Polynomial Complexity with a Better Intensionality

16:00 - 16:30 Coffee break

16:30 PPDP - Session 4 (Chair: R. Peña)

Y. Bertot and V. Komendantsky
Fixed Point Semantics and Partial Recursion in Coq
M. Piccolo and L. Paolini
Semantically Linear Programming Languages
S. Lucas and J. Meseguer
Order-Sorted Dependency Pairs

16:30 PLID - Session 4 (Chair: S. Genaim)

C. Mu
Calculating Leakage of Secrets Using Kozen's Semantics
D. Giffhorn
Probabilistic Non-Interference via Program Slicing
J. M. Crespo
Lightweight Verification of Customizable Policies for Mobile Devices through Program Slicing
PLID Closing Remarks

Wednesday 16th July

09:00 SAS - Invited Talk (Chair: M. Alpuente)

R. Giacobazzi
Transforming Abstract Interpretations by Abstract Interpretation

10:00 - 10:15 Short break

10:15 PPDP - Session 5 (Chair: S. Lucas)

P. Thiemann and M. Neubauer
Macros for Context-Free Grammars
V. Benzaken, G. Castagna, D. Colazzo and C. Miachon
Pattern by Example: Type-Driven Visual Programming of XML Queries

10:15 SAS - Session 1 (Chair: M. Hermenegildo)

C. Conway, D. Dams, K. Namjoshi and C. Barrett
Pointer Analysis, Conditional Soundness, and Proving the Absence of Errors
P. Prabhu and P. Shankar
Field Flow Sensitive Pointer and Escape Analysis for Java using Heap Array SSA

11:15 - 11:45 Coffee break

11:45 PPDP - Session 6 (Chair: J. Gallagher)

L. Lu
Inferring Precise Polymorphic Type Dependencies in Logic Programs
M. Montenegro, R. Peña and C. Segura
A Type System for Safe Memory Management and its Proof of Correctness
B. Pientka and J. Dunfield
Programming with Proofs and Explicit Contexts

11:45 SAS - Session 2 (Chair: T. Reps)

X. Allamigeon, S. Gaubert and E. Goubault
Inferring Min and Max Invariants Using Max-plus Polyhedra
A. Simon
Splitting the Control Flow with Boolean Flags
P. Lammich and M. Müller-Olm
Conflict Analysis of Programs with Procedures, Dynamic Thread Creation, and Monitors

13:30 - 15:00 Lunch

15:00 PPDP - Session 7 (Chair: P. Arenas)

E. Mera, P. López-García, M. Carro and M. Hermenegildo
Towards Execution Time Estimation in Abstract Machine-Based (Logic) Languages
R. Caballero, M. Rodríguez-Artalejo and C. A. Romero-Díaz
Similarity-based Reasoning in Qualified Logic Programming

15:00 SAS - Session 3 (Chair: R. Giacobazzi)

A. Lal and T. Reps
Solving Multiple Dataflow Queries Using WPDSs
S. Nanz, F. Nielson and H. R. Nielson
Modal Abstractions of Concurrent Behaviour

16:00 - 16:30 Coffee break

16:30 PPDP - Session 8 (Chair: M. Rodríguez-Artalejo)

H. Decker and D. Martinenghi
Classifying Integrity Checking Methods with regard to Inconsistency Tolerance
O. Chitil and T. Davie
Comprehending Finite Maps for Algorithmic Debugging of Higher-Order Functional Programs
C. Bertolissi and M. Fernández
A Rewriting Framework for the Composition of Access Control Policies

16:30 SAS - Session 4 (Chair: M. Bruynooghe)

S. Ruggieri and F. Mesnard
Typing Linear Constraints for Moding CLP(R) Programs
F. Perry and D. Walker
Reasoning about Control Flow in the Presence of Transient Faults
M. Comini, F. Damiani and S. Vrech
On Polymorphic Recursion, Type Systems, and Abstract Interpretation

Thursday 17th July

09:00 LOPSTR - Invited Talk (Chair: M. Hanus)

P. O'Hearn
Space Invading Systems Code

10:00 - 10:15 Short break

10:15 PPDP - Session 9 (Chair: J. Jaffar)

T. Feydy, A. Schutt and P. Stuckey
Global Difference Constraint Propagation for Finite Domain Solvers
R. Chenouard, L. Granvilliers and R. Soto
Model-Driven Constraint Programming

10:15 SAS - Session 5 (Chair: F. Mesnard)

N. Kidd, A. Lal and T. Reps
Language Strength Reduction
S. Perdrix
Quantum Entanglement Analysis based on Abstract Interpretation

10:15 LOPSTR - Session 2 (Chair: E. Albert)

M. Sulzmann, D. H. Chu
A Rule-Based Specification of Software Transactional Memory
M. Montenegro, R. Peña and C. Segura
An Inference Algorithm for Guaranteeing Safe Destruction

11:15 - 11:45 Coffee break

11:45 PPDP - Session 10 (Chair: G. Vidal)

Christian Schulte and Peter Stuckey
Dynamic Variable Elimination during Propagation Solving
S. Estevez, A. J. Fernández, T. Hortala-González, M. Rodríguez-Artalejo, F. Sáenz-Pérez and R. del Vado-Virseda.
Cooperation of Constraint Domains in the TOY System

11:45 SAS - Session 6 (Chair: M. Falaschi)

E. Albert, P. Arenas, S. Genaim and G. Puebla
Automatic Inference of Upper Bounds for Recurrence Relations in Cost Analysis
M. Petter, H. Seidl and A. Flexeder
Analysing All Polynomial Equations in Modulo 2^w
M. D. Preda, R. Giacobazzi and E. Visentini
Hiding Software Watermarks in Loop Structures

11:45 LOPSTR - Session 3 (Chair: T. Schrijvers)

D. Voets, P. Pillozzi and D. De Schreye
A New Approach to Termination Analysis of CHR
S. Lucas and R. Peña
Rewriting Techniques for Analysing Termination and Complexity Bounds of Safe Programs
G. Banda and J. Gallagher
Analysis of Linear Hybrid Systems in CLP
H. Seki
On Negative Unfolding in the Answer Set Semantics

13:30 - 15:00 Lunch

16:00 - 17:00 Guided city sightseeing tour

17:00 - 17:45 Visit to the City of Arts and Science

17:45 - 20:15 Tasting of a typical Valencian refreshment (cold Orxata) and visit to the Oceanarium

20:30 - 01:30 Social dinner in Hotel Balneario Las Arenas C/ Eugenia Viñes, 22-24, València

Friday 18th July

09:00 SAS - Invited talk (Chair: G. Vidal)

B. Liblit
Reflections on the Role of Static Analysis in Cooperative Bug Isolation

10:00 - 10:15 Short break

10:15 SAS - Session 7 (Chair: E. Albert)

G. Balakrishnan, S. Sankaranarayanan, F. Ivancic, O. Wei and A. Gupta
SLR: Path-Sensitive Analysis through Infeasible-Path Detection and Syntactic Language Refinement
M. Krishna Ramanathan, K. Sen, A. Grama and S. Jagannathan
Protocol Inference Using Static Path Profiles

10:15 LOPSTR - Session 5 (Chair: M. Alpuente)

M. Gomez-Zamalloa, E. Albert and G. Puebla
Test Data Generation of Bytecode by CLP Partial Evaluation
F. Degraeve, T. Schrijvers and W. Vanhoof
Automatic Test Input Generation for Mercury

11:15 - 11:45 Coffee break

11:45 SAS - Session 8 (Chair: A. Villanueva)

J. Midtgaard and T. Jensen
A Computational Approach to Control-Flow Analysis by Abstract Interpretation
J. Bauer, F. Nielson, H. R. Nielson and H. Pilegaard
Relational Analysis of Correlation
D. Van Horn and H. Mairson
Flow analysis, Linearity, and PTIME

11:45 LOPSTR - Session 6 (Chair: J. Gallagher)

G. Arroyo, J. G. Ramos, S. Tamarit and G. Vidal
A Transformational Approach to Polyvariant BTA of Higher-Order Functional Programs
M. Leuschel and G. Vidal
Fast Offline Partial Evaluation of Logic Programs
J. Silva, M. Leuschel, S. Tamarit, J. Oliver and M. Llorens
Slicing CSP Specifications

13:30 - 15:00 Lunch

15:00 SAS - Session 9 (Chair: J. Gallagher)

R. Manevich, T. Lev-Ami, M. Sagiv, G. Ramalingam and J. Berdine
Heap Decomposition for Concurrent Shape Analysis
J. Leroux
Convex Hull of Arithmetic Automata

15:00 LOPSTR - Session 7 (Chair: G. Vidal)

M. Alpuente, S. Escobar, J. Meseguer and P. Ojeda
A Modular Equational Generalization Algorithm
E. Kitzelmann
Analytical Inductive Functional Programming

16:00 - 16:30 Coffee break

16:30 LOPSTR - Session 8 (Chair: J. Silva)

T. Schrijvers, J. Gallagher and M. Bruynooghe
From Monomorphic to Polymorphic Well-Typings and Beyond
N. Chridi, M. Turuani and M. Rusinowitch
Towards Constrained-based Verification of Parameterized Cryptographic Protocols

July 15th-18th, Registration Desk open from 08:00 to 08:50



15th International Static Analysis Symposium (SAS 2008)

18th International Symposium on Logic-Based Program Synthesis and Transformation (LOPSTR 2008)

10th International ACM SIGPLAN Symposium on Principles and Practice of Declarative Programming (PPDP 2008)



SAS Affiliated Event: 4th International Workshop on Programming Language Interference and Dependence (PLID 2008)

Valencia, Spain. 15-18 July 2008
<http://www.dsic.upv.es/~slp2008/>