

» Lecturers

Track A: Introductory courses

José Meseguer - University of Illinois at Urbana-Champaign.

ITR: Introduction to Term Rewriting (17 hours)

Albert Rubio - Universitat Politècnica de Catalunya.

TFA: Termination of Rewriting: Foundations and Automation (5.5 hours)

Santiago Escobar - Universitat Politècnica de València.

MAU: A Rewriting-Based Specification and Programming Language: Maude (4 hours)

Beatriz Alarcón - Universitat Politècnica de València and **Raúl**

Gutiérrez - University of Illinois at Urbana-Champaign.

ETR: Exercises on Term Rewriting (7.5 hours)

Track B: Advanced courses

María Alpuente - Universitat Politècnica de València.

NTA: Narrowing Techniques and Applications (4 hours)

Temur Kutsia - Johannes Kepler Universität Linz.

MUG: Matching, Unification, and Generalizations (3.5 hours)

Pierre Lescanne - École Normale Supérieure de Lyon.

LCA: Lambda Calculus: Extensions and Applications (4 hours)

Georg Moser - University of Innsbruck.

ACA: Automated Complexity Analysis of Term Rewriting Systems (4 hours)

Narciso Martí-Oliet - Universidad Complutense de Madrid.

RLA: Rewriting Logic and Applications (4 hours)

Albert Oliveras - Universitat Politècnica de Catalunya.

SAV: SAT and SMT Techniques in Proof and Verification (3.5 hours)

Sophie Tison - Université des Sciences et Technologies de Lille.

TAT: Tree Automata, Turing Machines and Term Rewriting (4 hours)

Xavier Urbain - École Nationale Supérieure D'Informatique pour L'Industrie et L'Entreprise.

CER: Certification of Rewriting Properties (3.5 hours)

Andrei Voronkov - University of Manchester.

ARP: Automated Reasoning and Theorem Proving (4 hours)

» Overview

Rewriting is a branch of computer science whose origins go back to the origins of computer science itself (with Thue, Church, Post, and many other prominent researchers). It has strong links with mathematics, algebra, and logic, and it is the basis of well-known programming paradigms like functional and equational programming, which are taught at the university level in many countries. In these programming paradigms and corresponding languages, the notions of reduction, pattern matching, confluence, termination, strategy, etc., are essential. Rewriting provides a solid framework for understanding, using, and teaching all these notions. Rewriting techniques are also used in many other areas of software engineering (scripting, prototyping, automated transformation of legacy systems, refactoring, web services, etc.) and are implemented in popular systems like Mathematica, Autocad, and others. Rewriting techniques play a relevant role in computing research, education, and industry.

» Organizing Committee

Beatriz Alarcón. Universitat Politècnica de València.

Santiago Escobar. Universitat Politècnica de València.

Marco A. Feliú. Universitat Politècnica de València.

Raúl Gutiérrez. University of Illinois at Urbana-Champaign.

Javier Insa. Universitat Politècnica de València.

Salvador Lucas (chair). Universitat Politècnica de València.

Sonia Santiago. Universitat Politècnica de València.

Alicia Villanueva. Universitat Politècnica de València.

» Sponsors



<http://users.dsic.upv.es/~isr2012/>



» 6th International School on Rewriting

July 16th-20th 2012 Valencia//Spain

July 16th - 20th, 2012. Valencia, Spain

UNIVERSITAT
POLITÈCNICA
DE VALÈNCIA



» Program

Track A - Introductory courses

Monday, July 16

9:00 – 11:00

J. Meseguer - ITR: Introduction to Term Rewriting

11:00 – 11:30 Break

11:30 – 13:30

J. Meseguer - ITR: Introduction to Term Rewriting

13:30 – 15:00 Lunch

15:00 – 17:00

B. Alarcón & R. Gutiérrez - ETR: Exercises on Term Rewriting

17:00 – 17:30 Break

17:30 – 19:00

J. Meseguer - ITR: Introduction to Term Rewriting

Tuesday, July 17

9:00 – 11:00

J. Meseguer - ITR: Introduction to Term Rewriting

11:00 – 11:30 Break

11:30 – 13:30

J. Meseguer - ITR: Introduction to Term Rewriting

13:30 – 15:00 Lunch

15:00 – 17:00

B. Alarcón & R. Gutiérrez - ETR: Exercises on Term Rewriting

17:00 – 17:30 Break

17:30 – 19:00

J. Meseguer - ITR: Introduction to Term Rewriting

Wednesday, July 18

9:00 – 11:00

J. Meseguer - ITR: Introduction to Term Rewriting

11:00 – 11:30 Break

11:30 – 13:30

S. Escobar - MAU: A Rewriting-Based Specification and Programming Language: Maude

13:30 – 15:00 Lunch

15:00 – 21:00

Social Activities

Thursday, July 19

9:00 – 11:00

J. Meseguer - ITR: Introduction to Term Rewriting

11:00 – 11:30 Break

11:30 – 13:30

S. Escobar - MAU: A Rewriting-Based Specification and Programming Language: Maude

13:30 – 15:00 Lunch

15:00 – 17:00

B. Alarcón & R. Gutiérrez - ETR: Exercises on Term Rewriting

17:00 – 17:30 Break

17:30 – 19:00

A. Rubio - TFA: Termination of Rewriting: Foundations and Automation

Friday, July 20

9:00 – 11:00

J. Meseguer - ITR: Introduction to Term Rewriting

11:00 – 11:30 Break

11:30 – 13:30

A. Rubio - TFA: Termination of Rewriting: Foundations and Automation

13:30 – 15:00 Lunch

15:00 – 17:00

A. Rubio - TFA: Termination of Rewriting: Foundations and Automation

17:00 – 17:30 Break

17:30 – 19:00

B. Alarcón & R. Gutiérrez - ETR: Exercises on Term Rewriting

Track B – Advanced courses

Monday, July 16

9:00 – 11:00

S. Tison - TAT: Tree Automata, Turing Machines and Term Rewriting

11:00 – 11:30 Break

11:30 – 13:30

P. Lescanne - LCA: Lambda Calculus: Extensions and Applications

13:30 – 15:00 Lunch

15:00 – 17:00

A. Oliveras - SAV: SAT and SMT Techniques in Proof and Verification

17:00 – 17:30 Break

17:30 – 19:30

G. Moser - ACA: Automated Complexity Analysis of Term Rewriting Systems

Tuesday, July 17

9:00 – 11:00

P. Lescanne - LCA: Lambda Calculus: Extensions and Applications

11:00 – 11:30 Break

11:30 – 13:30

S. Tison - TAT: Tree Automata, Turing Machines and Term Rewriting

13:30 – 15:00 Lunch

15:00 – 17:00

G. Moser - ACA: Automated Complexity Analysis of Term Rewriting Systems

17:00 – 17:30 Break

17:30 – 18:30

A. Oliveras - SAV: SAT and SMT Techniques in Proof and Verification

Wednesday, July 18

9:00 – 11:00

M. Alpuente - NTA: Narrowing Techniques and Applications

11:00 – 11:30 Break

11:30 – 13:30

A. Voronkov - ARP: Automated Reasoning and Theorem Proving

13:30 – 15:00 Lunch

15:00 – 21:00

Social Activities

Thursday, July 19

9:00 – 11:00

A. Voronkov - ARP: Automated Reasoning and Theorem Proving

11:00 – 11:30 Break

11:30 – 13:30

M. Alpuente - NTA: Narrowing Techniques and Applications

13:30 – 15:00 Lunch

15:00 – 17:00

T. Kutsia - MUG: Matching, Unification, and Generalizations

17:00 – 17:30 Break

17:30 – 18:30

X. Urbain - CER: Certification of Rewriting Properties

Friday, July 20

9:00 – 11:00

N. Martí-Oliet - RLA: Rewriting Logic and Applications

11:00 – 11:30 Break

11:30 – 13:30

N. Martí-Oliet - RLA: Rewriting Logic and Applications

13:30 – 15:00 Lunch

15:00 – 17:00

X. Urbain - CER: Certification of Rewriting Properties

17:00 – 17:30 Break

17:30 – 18:30

T. Kutsia - MUG: Matching, Unification, and Generalizations