Programme

September 5–9
Toulouse, France
Clueless puzzle rules: solutions are integer Latin squares whose "regions" all have the same sum.

http://www.math.smith.edu/~jhenle/clueless

The Genesis of the CP’2016 shape.
Dinners Map

The Guide Michelin and the Fourchette (aka thefork.com) Web sites suggest many places for your dinners near the Conference (see the CP’16 Web site, then go to Toulouse > Accomodation for the Web links and apps). Reserved Social Dinners will take place there:

1. **Toulouse Business School**: Main location of the conference. 20, Boulevard Lascrosses, GPS: 43.609515, 1.430812
2. **Le 7, place Saint-Sernin**: Configuration workshop dinner (Monday). 7, place Saint-Sernin, GPS: 43.60888, 1.4415
3. **Brasserie FLO**: Doctoral programme dinner (Monday). 1 quai de la Daurade, GPS: 43.59975, 1.44055
4. **Le Genty Magre**: ACP dinner (Tuesday). 3, rue Genty Magre, GPS: 43.60149, 1.44521
5. **La Popote**: Senior PC dinner (Wednesday). 10, rue de la Pleau, GPS: 43.59684, 1.44696

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Foreword

We warmly welcome you to Toulouse and the campus of the Toulouse Business School where the 22nd International Conference on Principles and Practice of Constraint Programming will take place this year. We hope you will enjoy the scientific and social programme of CP2016 with five workshops, the doctoral program, four invited talks and four tutorials, twelve technical sessions, three application sessions, three journal-first and sister conferences sessions and for the first time this year, a series of six thematic sessions on dedicated topics: verification, music, computational biology, computational sustainability, and preferences & social choice.

We would like to sincerely thank those that contributed to the organization of the conference both in the program and local organisation committees. The list of names is far too long to fit here and we invite people to visit the conference web site at cp2016.a4cp.org for details.1

This year the organisation relies on an informal consortium of research institutes, schools and universities from Toulouse area where CP is developed. We would like to thank all our organisations, the Toulouse Business School (TBS, our host), the Université de Toulouse, the Institut de Recherche en Informatique de Toulouse (IRIT), the Institut National des Sciences Appliquées (INSA Toulouse), the Institut National de la Recherche Agronomique (INRA, MIAT), the LAAS/CNRS (ROC team), the École des Mines d’Albi-Carmaux (EMAC), the École Nationale de l’Aviation Civile (ENAC), the Office National d’Études et de Recherche Aérospatiales (ONERA), the Institut Supérieur de l’Aéronautique et de l’Espace (ISAE-SUPAERO), and the Institut National Polytechnique (INP) for supporting us in the organisation of this event. Together, we have tried to provide you with an enjoyable event that will not only allow you to explore the edge of CP but also the blend of history, tradition and high technology of Toulouse and the Occitanie region, including its food, wines and joie de vivre!

The organizing committee

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1 Wifi login and password are inside your badge.
Monday, September 5th
Thursday, September 8th

Toulouse Business School’s Campus

Doctoral Programme

Monday 05 September
morning
08h15 – 09h00
Welcome

10h00 – 10h30
Coffee Break

10h30 – 12h00
Doctoral Programme
Amphi Bosco

• Online HVAC-Aware Occupancy Scheduling with Adaptive Temperature Control, Boon Ping Lim, Hassan Hijazi, Sylvie Thiebaux and Menkes van Den Briel
• Evaluation of New Branching Heuristic for Tie-breaking, Seongsoo Moon and Mary Inaba
• SABIO: An Implementation of MIP and CP for Interactive Soccer Queries, Robinson Duque, Juan Francisco Diaz and Alejandro Arbelaez
• Using CP and ILP with Tree Decomposition to solve the Sum Colouring Problem, Ekaterina Arafailova, Nicolas Beldiceanu, Mats Carlsson, Pierre Flener, Maria Andreina Francisco Rodriguez, Justin Pearson and Helmut Simonis
• Symbolic reasoning for constraint solvers with arrays, Quentin Plazar, Sebastien Bardin, Arnaud Gotlieb and Mathieu Acher
• A Constraint Programming Approach to Multi-Robot Task Allocation and Scheduling in Retirement Homes, Kyle E. C. Booth, Goldie Nejat and Chris Beck
• An adaptive parallel SAT solver, Emir Demirovic, Nysret Musliu, Katsumi Inoue and Theo Le Calvez
• Morphing between Stable Matching Problems, Ciaran McCreesh, Patrick Prosser and James Trimble

12h00 – 13h30
Lunch Break

Toulouse Business Schools Campus

14h00 – 15h00
Dinner and Rendez-vous with delegates
Dinner provided by the conference organizers

19h00 – 21h00
Delegates’ visit of Toulouse
Transport provided by the conference organizers

Monday 06 September

10h00 – 12h00
Doctoral Programme
Amphi Bosco

• Overview of Recent Advances in Constraint Programming with Adaptive Temperature Control, Boon Ping Lim, Hassan Hijazi, Sylvie Thiebaux and Menkes van Den Briel
• An adaptive parallel SAT solver, Emir Demirovic, Nysret Musliu, Katsumi Inoue and Theo Le Calvez
• Evaluating the Efficiency of Different Branching Heuristics for Split-Heuristic Search Algorithms, Ciaran McCreesh, Patrick Prosser and James Trimble
• Towards More Efficient Branching Heuristics for Split-Heuristic Search Algorithms, Ciaran McCreesh, Patrick Prosser and James Trimble
• Overview of Recent Advances in Constraint Programming with Adaptive Temperature Control, Boon Ping Lim, Hassan Hijazi, Sylvie Thiebaux and Menkes van Den Briel
• An adaptive parallel SAT solver, Emir Demirovic, Nysret Musliu, Katsumi Inoue and Theo Le Calvez
• Evaluating the Efficiency of Different Branching Heuristics for Split-Heuristic Search Algorithms, Ciaran McCreesh, Patrick Prosser and James Trimble
Useful Locations

The Events will take place in:

A **Toulouse Business School**: The main location of the conference (Grand Amphi).
20, Boulevard Lascrosses, GPS: 43.609515, 1.430812

B **Toulouse Business School—Bocco building**: The alternative location (Amphi Bocco).
Place Alphonse Jourdain — Chemin Henri Bosco, GPS: 43.611017, 1.431261

C **Compans–Caffarelli**: The closest subway station.
16, boulevard Lascrosses, GPS: 43.610529, 1.435420

D **Town Hall**: The location of the welcome reception (Tuesday).
Place du Capitole, GPS: 43.604275, 1.444961

E **Hôtel Dieu**: The location of the gala dinner (Thursday).
2, rue Viguerie, GPS: 43.599851, 1.436506

F **Place de l’Europe Car Park**: The closest car park.
18, place Alphonse Jourdain, GPS: 43.61108, 1.42987

Doctoral Programme

**Monday 05 September**

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<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<td>11h30 – 13h00</td>
<td><strong>Doctoral Programme</strong></td>
<td>Amphi Bocco</td>
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<td></td>
<td>Invited talk: Louis-Martin Rousseau</td>
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<td></td>
<td>A Monte Carlo Large Neighbourhood Search for Vehicle Routing Problems, Katharina Glock, Anne Meyer and Guido Tack</td>
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<td>Studying parallel communication strategies with POSL, Alejandro Reyes Amaro, Eric Monfroy and Florian Belhomme</td>
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<td>An Interval Filtering Operator for Upper and Lower Bounding in Constrained Global Optimization, Oliver Sems, Remi Coletta and Gilles Trombettoni</td>
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<td>15h00 – 15h30</td>
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<td></td>
<td>A Portfolio Approach for Enforcing Minimality in a Tree Decomposition, Daniel J. Geschwindner, Robert J. Woodward, Berthe Y. Choueiry and Stephen D. Scott</td>
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<td>Mining frequent patterns using CP: a comparative study, Valentin Lemièrè, Yann Dauxais, Patrice Boizumaut and Arraud Lalouret</td>
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<td>Learning parameters for the Sequence constraint from positive examples, Emilie Picard-Cantin, Mathieu Bouchard, Claude-Guy Quimper and Jason Sweeney</td>
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<td>Constraint Programming for Strictly Convex Integer Quadratically-Constrained Problems, Wen-Yang Ku and Chris Beck</td>
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<td>Constraint Programming For Mining Partially Ordered Motifs, Vincent Vigerou, David Slossant, Barry Hurky, Deepak Mehta and Barry O’sullivan</td>
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<td>A global constraint for closed itemset mining, Nadjib Lazaar, Ychia Lebbah, Samir Loudni, Mehdi Maamar, Valentin Lemièrè, Christian Beswiere and Patrice Boizumaut</td>
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<td>Debugging Unsatisfiable Constraint Models, Kevin Leo and Guido Tack</td>
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<td>A Bounded Path Propagator on Directed Graphs, Diego de Uña, Gnaeve Gange, Peter Schachte and Peter J. Stuckey</td>
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<td>Multiple Constraint Acquisition, Robin Arcangioli, Christian Beswiere and Nadjib Lazaar</td>
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<td>A DP-based MCMC Framework for Solving DCOPs with GPUs, Ferdinando Finetuto, Enrico Pontelli and William Yool</td>
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<td>Synchronous Space Programming, Pierre Talbot, Carlos Agon and Philippe Eising</td>
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<td>Clique and Constraint Models for Maximum Common (Connected) Subgraph Problems, Ciaran McCreesh, Samba Ngodjo Nhawwe, Patrick Prosser and Christine Solnon</td>
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<td>Embarrassingly Parallel Search Reengineered, Guillaume Derel, Pierre Chauss and Jean-Charles Regin</td>
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<td>17h45 – 18h45</td>
<td>ACP challenge – Pierre Schaus</td>
<td>Grand Amphi</td>
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<td>18h45 – 19h30</td>
<td>Toulbar2 Projects Meeting</td>
<td>RUS</td>
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<td>19h30 – 21h00</td>
<td>Doctoral Programme Dinner</td>
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15h30 – 16h20
Technical Session (11): SAT, SMT
Grand Amphi
• Alexey Ignatiev, Alessandro Previti and Joao Marques-Silva.
  On Finding Minimum Satisfying Assignments
• Ozgur Akgun, Ian Gent, Christopher Jefferson, Ian Miguel and Peter Nightingale.
  Exploiting Short Supports for Improved Encoding of Arbitrary Constraints into SAT

15h30 – 16h20
Technical Session (12): scheduling
Amphi Bosco
• Alexander Tesch.
  A Nearly Exact Propagation Algorithm for Energetic Reasoning in $O(n^2 \cdot \log n)$
• Ria Szeredi and Andreas Schutt.
  Modelling and Solving Multi-Mode Resource-Constrained Project Scheduling

16h20 – 17h00
Farewell coffee
Conference
Saturday 10 September
09h30 – 18h00
CSPLib Sprint
Room 133
Workshops
Monday 05 September
09h00 – 17h00
Constraint-Based Methods for Bioinformatics
B201
• Alessandro Dal Palù, Agostino Dovier, Andrea Formisano, Alberto Policriti, Enrico Pontelli.
  Logic Programming Applied to Genome Evolution in Cancer
• Katinka Becker, Martin Gebser, Torsten Schaub and Alexander Bockmayr.
  Answer Set Programming for Logical Analysis of Data

10h00 – 10h30
Coffee Break
• Louis Fippo Fitime, Olivier Roux, Carito Guziolowski and Loïc Paulevé.
  Identification of Bifurcations in Biological Regulatory Networks using Answer-Set Programming
• Jean-Marc Alliot, Martín Diéguez and Luis Farinas del Cerro.
  Metabolic Pathways as Temporal Logic Programs
• Martin Morterol, Philippe Dague, Sabine Peres and Laurent Simon.
  Minimality of Metabolic Flux Modes under Boolean Regulation Constraints

12h00 – 13h30
Lunch Break
• Clément Viricel, David Simoncini, Thomas Schiex and Sophie Barbe.
  Guaranteed Weighted Counting for Affinity Computation: beyond Determinism and Structure (CP2016 paper)
• Maryana Wånggren, Martin Billeter, and Graham Kemp.
  Computational protein modelling based on limited sets of constraints
• Ludwig Krippahl and Pedro Barahona.
  Improving protein docking with redundancy constraints (CP2016 paper)

15h00 – 15h30
Coffee Break
• Sébastien François, Rumen Andonov, Hristo Djidjev and Dominique Lavenier.
  Global Optimization Methods for Genome Scaffolding
• Eric Bourreau, Annie Chateau, Clément Dallard and Rodolphe Giroudeau.
  A Graph Constraints Formulation for Contigs Scaffolding
• G. Schenner and R. Taupe.
  Encoding Object-oriented Models in MiniZinc
• K. Leo and G. Tack.
  Debugging Unsatisfiable Constraint Models
• G. Perez and J.-C. Regin.
  Building efficient soft and cost MDD constraints

10h30 – 16h30
Constraint Modelling and Reformulation
B102
• W. Sawangphol, Y.-F. Li, and G. Tack.
  CP4DL: Constraint-based Reasoning for Expressive Description Logics
• M. Codish, M. Frank, and V. Lagoon.
  DNA Word Design: A New Constraint Model and New Results
• Z. Erraji, A. Hakkou, A. Benamrane, I. Benelallam, and El H. Bouyakhf.
  A Distributed Constraint Reasoning Approach Towards Intelligent Marketplace Environment
• V. Armant and K. N. Brown.
  Reformulation of Drivers’ Fixed Path Constraints in Ridesharing Problems
• S. D presti, S. Festa, and P. M. Pardalos.
  Reformulation of Trees’ Fixed Path Constraints in Transportation Networks
• A. Benkoune, A. Boudaya, and J. N. Bensmail.
  On Finding Minimum Satisfying Assignments
• W. Lotif and N. Ouchadi.
  A Powerful Metaheuristic Method to Solve the Capacitated General Routing Problem
• S. D. Presti, S. A. Tarim, and R. Rossi.
  Constraint Problem Specification as Compression

12h00 – 13h30
Lunch Break
• W. Sawangphol, Y.-F. Li, and G. Tack.
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<td>09h00 – 10h00</td>
<td>Invited talk: Challenges of Program Verification with SPARK, Yannick Moguéty</td>
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<td>11h30 – 12h10</td>
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<td>13h40 – 15h20</td>
<td>Invited talk: From Constraint Programming to Probabilistic Programming to Approximate Programming Models</td>
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<td>15h20 – 16h00</td>
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<td>16h00 – 17h00</td>
<td>Coffee Break</td>
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<tr>
<td>17h00 – 18h00</td>
<td>Invited talk: Network Verification: When less is more, but not always</td>
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<tr>
<td>18h00 – 19h00</td>
<td>Reception/Meet &amp; Greet</td>
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## Conference Program

### Thursday 08 September

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<td>08h15 – 09h00</td>
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<td>08h45 – 09h45</td>
<td>Invited talk: Optimization and Control in the Smart Grid and Beyond – Zico Kolter</td>
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<td>09h45 – 10h15</td>
<td>Coffee Break</td>
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| 10h15 – 12h00 | Best Papers
  • Krishnamurthy Dvijotham, Pascal Van Hentenryck, Michael Chertkov, Sidhant Misra and Marc Vuffray. Graphical models for optimal power flow
  • David Manlove, Iain McBride and James Trimble. 'Almost-stable' matchings in the Hospitals / Residents problem with Couples
  • Clément Carbonnel. The Dichotomy for Conservative Constraint Satisfaction is Polynomially Decidable
| 12h00 – 13h30 | Lunch                                                                |
| 13h30 – 14h20 | CP and Biology Session
  • Clément Viricel, David Simoncini, Thomas Schiex and Sophie Barbe. Guaranteed Weighted Counting for Affinity Computation: beyond Determinism and Structure
  • Ludwig Krippahl and Pedro Barahona. Improving protein docking with redundancy constraints |
| 13h30 – 14h20 | Application Session (3)
  • Katherine Giles and Willem-Jan Van Hoeve. Solving a Supply-Delivery Scheduling Problem with Constraint Programming
  • David Gerault, Marine Minier and Christine Solnon. Constraint Programming Models for Chosen Key Differential Cryptanalysis |
| 14h20 – 14h45 | Doctoral Research Award – André Augusto Cire |
| 14h45 – 15h00 | Distinguished Service Award – Thomas Schiex |
| 15h00 – 18h00 | Social Program: visit of Toulouse
  • Social Program: A380 assembly line visit |
| 20h00 – 23h30 | Conference Dinner                                                       |

### Workshops

#### Tuesday 06 September

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| 09h00 – 12h00 | Configuration
  • Benchmark for configuration and planning optimization problems: Proposition of a generic model
  • Optimal Feature Selection via Evolutionary Algorithms and Constraint Solving |
| 10h00 – 10h30 | Coffee Break                                                          |
| 10h30 – 15h30 | Interactive Configuration of Insulating Envelopes
  • StudyBattles: A Learning Environment for Knowledge-based Configuration
  • Finding pre-production vehicle planning using Max-SAT framework
  • Determining New Components for Open Configuration
  • Future Configuration Challenges and Next Edition (CWS2017) |
| 15h30 – 18h00 | Towards Group-Based Configuration
  • Towards Configuration Technologies for IoT Gateway
  • Towards Modularization and Configuration of Services – Current Challenges and Difficulties
  • Determining Configuration of Hybrid Mathematical Models |

#### Wednesday 07 September

<table>
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<th>Time</th>
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| 09h00 – 12h00 | Configuration
  • Benchmark for configuration and planning optimization problems: Proposition of a Constraint Programming Approach
  • Analytical and Experimental Evaluation of Cross-Functional Performance: Impact of Configuration / Cross-Functional Performance on Cost and Quality
| 10h00 – 10h30 | Coffee Break                                                          |
| 10h30 – 12h00 | Cross-Functional Performance and Cross-Functional Integration
  • Towards a Cross-Functional Performance and Cross-Functional Integration Framework
  • Towards a Cross-Functional Performance and Cross-Functional Integration Framework
  • Towards a Cross-Functional Performance and Cross-Functional Integration Framework |

#### Thursday 08 September

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  • Analytical and Experimental Evaluation of Cross-Functional Performance: Impact of Configuration / Cross-Functional Performance on Cost and Quality
  • Towards a Cross-Functional Performance and Cross-Functional Integration Framework
  • Towards a Cross-Functional Performance and Cross-Functional Integration Framework
  • Towards a Cross-Functional Performance and Cross-Functional Integration Framework |
| 10h00 – 10h30 | Coffee Break                                                          |
| 10h30 – 12h00 | Cross-Functional Performance and Cross-Functional Integration
  • Towards a Cross-Functional Performance and Cross-Functional Integration Framework
  • Towards a Cross-Functional Performance and Cross-Functional Integration Framework
  • Towards a Cross-Functional Performance and Cross-Functional Integration Framework |

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**Welcome to the Conference**

- **Overall Conference Theme:**
  - Cross-Functional Performance and Cross-Functional Integration: Impact of Configuration on Product Configurability
- **Keynote Speakers:**
  - Zico Kolter: Optimization and Control in the Smart Grid and Beyond
  - André Augusto Cire: Doctoral Research Award
  - Thomas Schiex: Distinguished Service Award

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**Conference Dinner**

- **Date:** 08 September
- **Time:** 20h00 – 23h30
- **Location:** Grand Amphi

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**Workshops**

- **Tuesday 06 September**
  - **09h00 – 12h00:** Configuration
    - Benchmark for configuration and planning optimization problems: Proposition of a generic model
    - Optimal Feature Selection via Evolutionary Algorithms and Constraint Solving
  - **10h00 – 10h30:** Coffee Break
  - **10h30 – 15h30:** Interactive Configuration of Insulating Envelopes
    - StudyBattles: A Learning Environment for Knowledge-based Configuration
    - Finding pre-production vehicle planning using Max-SAT framework
    - Determining New Components for Open Configuration
    - Future Configuration Challenges and Next Edition (CWS2017)
  - **15h30 – 18h00:** Towards Group-Based Configuration
    - Towards Configuration Technologies for IoT Gateway
    - Towards Modularization and Configuration of Services – Current Challenges and Difficulties
    - Determining Configuration of Hybrid Mathematical Models

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**Conference Program**

- **08h00 – 09h00:** Welcome
- **09h00 – 09h15:** Keynote Speech 1
- **09h15 – 09h30:** Keynote Speech 2
- **09h30 – 10h00:** Keynote Speech 3
- **10h00 – 10h30:** Coffee Break
- **10h30 – 12h00:** Parallel Sessions
  - Session A: Configuration and Planning Optimization
  - Session B: Cross-Functional Integration
  - Session C: Interactive Configuration
- **12h00 – 13h30:** Lunch Break
- **13h30 – 14h00:** Parallel Sessions
  - Session A: Configuration and Planning Optimization
  - Session B: Cross-Functional Integration
  - Session C: Interactive Configuration
- **14h00 – 15h00:** Doctoral Research Award
- **15h00 – 16h00:** Distinguished Service Award
- **16h00 – 18h00:** Social Program: Visit of Toulouse
- **20h00 – 23h00:** Conference Dinner

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**Conference Venue:**

- **Location:** Grand Amphi
Conference

Wednesday 07 September

08h15 – 09h00
Registration

08h45 – 09h45
Invited talk: Horn Constraints for Software Verification and Synthesis – Andrey Rybalchenko

09h45 – 10h15
Coffee Break

10h15 – 11h15
Tutorial: Social Choice – Francesca Rossi, K. Brent Venable, Toby Walsh

10h15 – 11h15
Tutorial: Automated Program Analysis and Verification – Andreas Podelski

11h15 – 12h05
Testing and Verification Session
Xiaojun Sun, Irina Ilioaea, Priyank Kalla and Florian Enescu. Finding Unsatisfiable Cores of a Set of Polynomials using the Groebner Basis Algorithm
Merav Aharoni, Yael Ben-Haim, Shai Doron, Anatoly Koyfman, Elena Tsanko and Michael Veksler. Using Graph-Based CSP to Solve the Address Translation Problem

11h15 – 12h05
Preferences, Social Choice, and Constraints Session
Ferdinando Fioretto, William Yeoh and Enrico Pontelli. A Dynamic Programming-based MCMC Framework for Solving DCOPs with GPUs
Ciaran McCreesh, Patrick Prosser and James Trimble. Morphing between Stable Matching Problems

12h05 – 13h35
Lunch

13h35 – 14h50
Application Session (2)
Vincent Goulet, Wei Li, Hyunmin Cheong, Francesco Iorio and Claude-Guy Quimper. Four-Bar Linkage Synthesis Using Non-Convex Optimization
Robinson Duque, Alejandro Arbelaez and Juan Francisco Díaz. SABIO: An Implementation of MIP and CP for Interactive Soccer Queries
Samir Sebbah, Claire Bagley, Mike Colena and Serdar Kadioglu. Service Availability Optimization in Cloud-Based In-Memory Data Grids

13h35 – 14h50
Journal-First and Sister Conferences session (2): Consistencies
Martin Cooper and Stanislav Zivny. The Power of Arc Consistency for CSPs Defined by Partially-Ordered Forbidden Patterns
Chavalit Likitvivatanavong, Wei Xia and Roland H. C. Yap. Decomposition of the Factor Encoding for CSPs
Christophe Lecoutre, Chavalit Likitvivatanavong and Roland Yap. STR3: A Path-Optimal Filtering Algorithm for Table Constraints

14h50 – 15h20
Coffee Break

16h00 – 16h50
Music Session (2)
John Hooker. Finding Alternative Musical Scales
Tsubasa Tanaka, Brian Bemman and David Meredith. Constraint programming formulation of the problem of generating Milton Babbitt’s all-partition arrays

16h00 – 16h50
Technical Session (2): MaxSAT
Jack Goffinet and Raghuram Ramanujan. Monte-Carlo Tree Search for the Maximum Satisfiability Problem
Xujie Si, Xin Zhang, Vasco Manquinho, Mikolas Janota, Alexey Ignatiev and Mayur Naik. On Incremental Core-Guided MaxSAT Solving

16h50 – 17h40
Technical Session (3): Global constraints
Jordan Demeulenaere, Renaud Hartert, Christophe Lecoutre, Guillaume Perez, Laurent Perron, Jean-Charles Régis and Pierre Schaus. Compact-Table: efficiently filtering table constraints with reversible sparse bit-sets
Nadjib Lazaar, Yahia Lebbah, Samir Loudni, Mehdi Maamar, Valentin Lemière, Christian Bessiere and Patrice Boizumault. A global constraint for closed itemset mining

18h30 – 20h00
Welcome Reception

20h30 – 23h00
Executive Committee ACP dinner