CTW 2018 *(CNAM, Paris, France, 18-20 June)*

This conference is supported by a hell of an organizing committee. Special thanks go to Amélie Lambert (local arrangements), Lucas Létocart (website), Fabio Furini (email), Emiliano Traversi (proceedings). All complaints should go to Leo Liberti (sigh).

Schedule

Mon 18 June

	Room PP		Room Z		Room Y	
09:00-09:30	Registration (hall) and opening (PP)					
09:30-10:00	*Complexity*	Anapolska	*Math. Progr. I*	Iommazzo	*Networks I*	Oustry
10:00-10:30		Pradhan		Lee		Gunnec
10:30-11:00	coffee (hall)					
11:00-11:30	**Seiller (plenary, PP)**					
1130-12:00						
12:00-14:00	lunch (on your own)					
14:00-14:30	*Graphs I*	Nguyen	*Algorithms I*	Hommels-heim	*Graph Embed-dings*	Silva
14:30-15:00		Gomes da Silva		Vernet		Serocold
15:00-15:30		Hossain		Vandomme		Lavor
15:30-16:00	coffee (hall)					
16:00-16:30	*Graphs II*	Obreja	*Comb. Opt. (Schrader)*	Vretta	*Games I*	Lozovanu
16:30-17:00		Wolfler		Apke		Kern
17:00-17:30						
19:00-21:00						

Tue 19 June

	Room PP		Room Z		Room Y	
09:30-10:00	*Games II*	Yang	*Transport-ation I*	Bauguion	*Energy I*	Schwenk
10:00-10:30		Furini		Righini		Thomo-pulos
10:30-11:00	coffee (hall)					
11:00-11:30	**Wiegele (plenary, PP)**					
1130-12:00						
12:00-14:00	lunch (on your own)					
14:00-14:30	*Clustering*	Edel-mann	*Math. Progr. II*	Francois	*Schedu-ling*	Pan
14:30-15:00		Gentile		Casazza		Schaudt
15:00-15:30		Cordo-ne		Marinelli		Nicosia
15:30-16:00	coffee (hall)					
16:00-16:30	*Graphs III*	Gishbo-liner	*Algorithms II*	Klootwijk	*Networks II*	Ghanem
16:30-17:00		Hu		Verma		Baste
17:00-17:30		Del-Vecchio		Weller		Danisch
19:00-21:00	Cocktail (salle des textiles)					

Wed 20 June

	Room PP		Room Z		Room Y	
09:30-10:00	*Graphs IV (Cordone)*	Kumbar-goudra	*Math. Progr. III*	Aoudia	*Energy II*	Vanier
10:00-10:30		Tian		Traversi		Menca-relli
10:30-11:00	coffee (hall)					
11:00-11:30	*Graphs V*	Zheng	*Transport-ation II*	Pisacane	*Games III*	Boehn-lein
1130-12:00		Behm-aram		Bruglieri		Pacifici
12:00-14:00	Closing (PP)					

Did you know that CNAM hosts a Sciences Museum? This is one of the most crucial places in the novel "Foucault's Pendulum" by Umberto Eco (possibly my favorite writer). Many years ago I had applied to an assistant professorship at CNAM. I did not get the position, but during the interview I could not refrain from declaring that one of my strong motivations to apply was working in a place celebrated in a novel I loved. The hiring committee burst out laughing, and maybe that's why I wasn't offered the position. In any case you should go and visit the museum (same building, different entrance). Do not miss the part of the museum which hosts Foucault's pendulum, which hangs from the dome of the church of St. Martin-des-Champs (literally: St. Martin-in-the-Fields, which describes a sister church in London, equally central, but of a different confession I think).

The seminar rooms are the *Paul Painlevé* (PP), the *Robert Faure* (Z) and the *Jean-Baptiste Say* (Y) amphitheatres, located in Access 1, lower ground floor. Opening, plenary and closing sessions will take place in the PP amphitheatre. The cocktail event on Tuesday evening will take place in the *salle des textiles* room, located in Access 3, 1st floor. Coffee pauses will take place in the hall before the three amphitheatres. http://cedric.cnam.fr/~courtiep/planCnam/plan_Cnam_3e_arrondissement.html

Session chairs. The last speaker of the session will chair the session, with two exceptions for PhD-only sessions: *Combinatorial Optimization* (Mon 18, Room PP, 16-17) chaired by R. Schrader, and *Graphs III* (Wed 20, Room PP, 9:30-10:30) chaired by R. Cordone. Session chairs must remind speakers to load up slides on laptops, and keep the sessions on time. Session chairs are encouraged to be cruel and despotic as regards times allotted, since there are parallel sessions. If a speaker will not get your hints, standing is often not enough: just cut him/her short and invite the next speaker (as the last speaker in the session, you have every incentive to do so, but please don't be the chair who overruns his own time slot). Conversely, if a speaker ends before the time is up, you should encourage some questions/discussion/debate: e.g. invite questions from the audience and leave a pause long enough to be slightly awkward, then possibly someone will ask a question just to fill in the horrible silence, and then other questions may follow. If no-one asks, you can start off the debate by asking a session yourself. In any case, keep all slots to exactly 30 minutes (parallel sessions regime).

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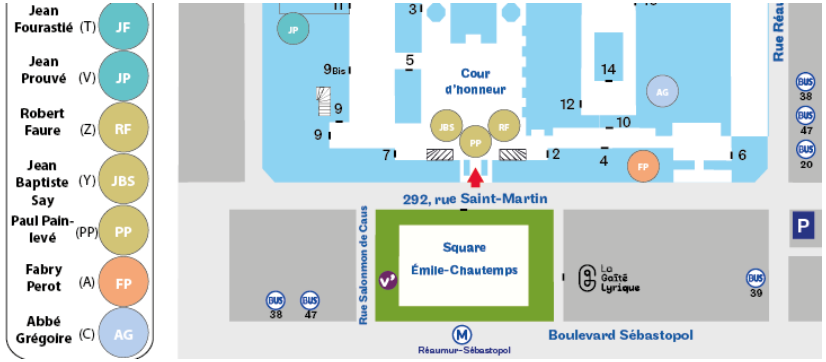
Invited speakers

Thomas Seiller, Univ. Paris-Nord, *Mon 18, PP, 11-12*
From Proofs to Programs, Graphs and Dynamics. Geometric perspectives on computational complexity.

Angelika Wiegele, Alpen-Adria Univ. Klagenfurt, *Tue 19, PP, 11-12*
Modeling and Solving Combinatorial Optimization Problems using Semidefinite Programming

Enter CNAM by the entrance labelled "1". The amphitheatres are underground, underneath the entrance court (see picture below). The "Salle des textiles" (where the cocktail event takes place) is labeled by "3", on the first floor.



The proceedings of this workshop are distributed in a PDF file which is available for download at www.lix.polytechnique.fr/~liberti/ctw18-proceedings.pdf.

A special issue of Discrete Applied Mathematics will be dedicated to the topics of the CTW18. Watch out for calls for papers to this issue during summer/autumn/winter 2018.

Speaker	Title	*Session*
Anapolska	Minimum Color-Degree Perfect b-Matchings	*Complexity*
Aoudia	Star forest polytope on complete graph	*Math. Progr. III*
Apke	A Characterization of Interval Orders with Semiorder Dimension Two	*Comb. Opt.*
Baste	Temporal matching in link stream: kernel and approximation	*Networks II*
Bauguion	Multimodal transportation plan adjustment with passengers behaviour constraints	*Transportation I*
Behmaram	On matching and distance property of m-barrele Fullerene	*Graphs V*
Boehnlein	Make or Buy: Revenue Maximization in Stackelberg Scheduling	*Games III*
Bruglieri	The Electric Vehicle Relocation Problem in Carsharing Systems with Collaborative Operators	*Transportation II*
Casazza	Dual bounds for a Maximum Lifespan Tree Problem	*Math. Progr. II*
Cordone	Some polynomial special cases for the Minimum Gap Graph Partitioning Problem	*Clustering*
Danisch	A Modular Overlapping Community Detection Algorithm: Investigating the “From Local to Global” Approach	*Networks II*
Del-Vecchio	A new centrality measure: spectral closeness.	*Graphs III*
Edelmann	Graph partitioning using matrix differential equations	*Clustering*
François	Mixed Integer Linear Programming Approach for a Distance-Constrained Elementary Path Problem	*Math. Progr. II*
Furini	Attacking the Clique Number of a Graph	*Games II*
Gentile	An algorithm for computing lower bounds for the Microaggregation problem	*Clustering*
Ghanem	How to exploit structural properties of dynamic networks to detect nodes with high temporal closeness	*Networks II*
Gishboliner	A Generalized Turan Problem and its Applications	*Graphs III*
Gomes Da Silva	Equitable total chromatic number of two classes of complete r-partite p-balanced graphs	*Graphs I*
Gunnec	Influence Maximization in Social Networks under Deterministic Linear Threshold Model	*Networks I*
Hommelsheim	Robust Matching Augmentation	*Algorithms I*
Hossain	Multicoloring of Pattern Graphs for Sparse Matrix Determination	*Graphs I*
Hu	On the spectra of general random mixed graphs	*Graphs III*
Iommazzo	A methodology for addressing the Algorithm Configuration problem on mathematical programming solvers	*Math. Progr. I*
Kern	The asymptotic price of anarchy for k-uniform congestion games	*Games I*
Klootwijk	Probabilistic Analysis of Optimization Problems on Generalized Random Shortest Path Metrics	*Algorithms II*
Kumbargoudra	Total k-rainbow Domatic Number	*Graphs IV*
Lavor	New advances on the branch-and-prune algorithm for the discretizable molecular distance geometry problem	*Graph Embeddings*
Lee	Gomory by column generation	*Math. Progr. I*
Lozovanu	Nash Equilibria in Mixed Stationary Strategies for m-Player Cyclic Games on Networks	*Games I*
Marinelli	A star-based reformulation for the maximum quasi-clique problem	*Math. Progr. II*
Mencarelli	A Multiplicative Weights Update Algorithm for a Class of Pooling Problems	*Energy II*
Nguyen	On some tractable constraints on paths in graphs and in proofs	*Graphs I*
Nicosia	Single machine scheduling with bounded job rearrangements	*Scheduling*
Obreja	Extremal Graphs with respect to the Modified First Zagreb Connection Index	*Graphs II*
Oustry	Optimal Deployment of Wireless Networks	*Networks I*
Pacifici	Two Stackelberg Knapsack games	*Games IV*
Pan	A hybrid heuristic for multi-activity tour scheduling	*Scheduling*
Pisacane	Solving the Green Vehicle Routing Problem with Capacitated Alternative Fuel Stations	*Transportation II*
Pradhan	Algorithmic aspects of neighborhood total domination in graphs	*Complexity*
Righini	Dynamic programming for the Electric Vehicle Orienteering problem with multiple technologies	*Transportation I*
S. Schaudt	Parallel machine scheduling with unit time distinct due windows	*Scheduling*
Schwenk	A Green Energy Grid Coupling Problem (GEGCP)	*Energy I*
Serocold	Rigidity of 1-coordinated frameworks in 2 dimensions	*Graph Embeddings*
Silva	Graphs with at most one crossing	*Graph Embeddings*
Tian	Sufficient degree conditions for traceability of claw-free graphs	*Graphs IV*
Thomopulos	A Constrained Shortest Path formulation for the Two-Reservoir Hydro Unit Commitment Problem	*Energy I*
Traversi	Decomposition Methods for Quadratic Programming	*Math. Progr. III*
Vandomme	Fully leafed induced subtrees (extended abstract)	*Algorithms I*
Vanier	Column Generation for the Energy-Efficient in Multi-Hop Wireless Networks Problem	*Energy II*
Verma	Edge Domination in subclasses of bipartite graphs	*Algorithms II*
Vernet	Successive Shortest Path Algorithm for Flows in Dynamic Graphs	*Algorithms I*
Vretta	A characterization for binary signed-graphic matroids	*Comb. Opt.*
Weller	Listing Conflicting Triples in Optimal Time	*Algorithms II*
Wolfler	A branch-and-price framework for decomposing graphs into relaxed cliques	*Graphs II*
Yang	On the One-Cop-Moves Game on Graphs	*Games II*
Zheng	Implicit heavy subgraph conditions for hamiltonicity of almost distance-hereditary graphs	*Graphs V*