



## Séminaire du CIRRELT

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### A Column Generation Approach to the Capacitated Centered Clustering Problem

**Abstract:** We propose a column generation based heuristic to calculate approximate solutions to the capacitated centered clustering problem. This problem arises in pattern recognition, biological classification and facility location problems. The proposed approach uses a stabilization technique derived from the lagrangean/surrogate relaxation of the corresponding capacitated p-median problem. Computational results will be presented to show the effectiveness of the method.

**Note :** Marcos Pereira is an assistant professor at the Universidade Estadual Paulista. He obtained his Ph.D. from the National Institute for Space Research (Brazil), and was a postdoctoral fellow at HEC Montréal. His research interests are large scale combinatorial optimization, facility location and vehicle routing problems.

MARDI

18 février 2014  
10h30

Local 1609  
Pavillon Palasis-Prince  
Université Laval

Ouvert à tous

**Organisateur**  
**Leandro Coelho**

