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Oggetto: Programma Short Term Mobility: Reazione finale visita prof. Lagoa

Prof. Lagoa visited the CNR-IEIT institute from October 14, 2013 to October 25, 2013.

During the visit, we discussed the problem of designing an iterative algorithm for the distributed computation of the Google PageRank. The designed algorithm is fully distributed, asynchronous and exhibits an exponential convergence rate to the true PageRank. The main idea is based on a oblique-projection Kaczmarz scheme.

Several simulations testify for the very effective behavior of the algorithm, which significantly outperformed previously developed methods. The proof of convergence of the developed scheme requires the use of the theory of switching dynamical systems. A conference paper on the subject is in preparation and will be submitted to the 2014 IEEE Conference on Decision and Control.

Data 1 dicembre 2013

Fabrizio Dabbene

