Distributed Data Structures: A Survey

(Invited Talk)

Cyril Gavoille

LABRI, Bordeaux

Abstract

This survey concerns the role of data structures for compactly storing and representing various types of information in a localized and distributed fashion. Traditional approaches to data representation are based on global data structures, which require access to the entire structure even if the sought information involves only a small and local set of entities. In contrast, localized data representation schemes are based on breaking the information into small local pieces, or *labels*, selected in a way that allows one to infer information regarding a small set of entities directly from their labels, without using any additional (global) information.

A. Pelc and M. Raynal (Eds.): SIROCCO 2005, LNCS 3499, p. 2, 2005.