

1. Record Nr.	UNINA9910139206403321
Titolo	2010 Fourth IEEE International Conference on Self-Adaptive and Self-Organizing Systems Workshop
Pubbl/distr/stampa	[Place of publication not identified], : I E E E, 2010
ISBN	9780769542294 0769542298
Descrizione fisica	1 online resource (xxxii, 326 pages) : illustrations
Disciplina	003
Soggetti	Self-organizing systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Sommario/riassunto	Self-adaptation can be achieved by autonomic management of facets of a system's constituent components. This paper reports on a generic autonomic management frame-work and on its application to a key-based routing protocol as used in the peer-to-peer overlay Chord. The framework implements generic components of the autonomic management cycle. In the work reported here it was used to build a manager which autonomically controls the maintenance scheduling of the peer-set in individual Chord nodes, governed by some high-level policies. This manager improved routing performance and resource consumption in comparison to statically configured Chord nodes in a deployed network which was exposed to various membership churn and workload patterns.