1. Record Nr. UNINA9910768467403321

Titolo	Self-Sustaining Systems : First Workshop, S3 2008 Potsdam, Germany, May 15-16, 2008, Proceedings / / edited by Robert Hirschfeld, Kim Rose
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2008
ISBN	3-540-89275-3
Edizione	[1st ed. 2008.]
Descrizione fisica	1 online resource (VII, 157 p.)
Collana	Programming and Software Engineering, , 2945-9168 ; ; 5146
Disciplina	006.3
Soggetti	Computer systems Operating systems (Computers) Computers, Special purpose Computer science Computer programming Computer System Implementation Operating Systems Special Purpose and Application-Based Systems Models of Computation Programming Techniques
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Invited Talks -- Open, Extensible Object Models -- The Lively Kernel A Self-supporting System on a Web Page -- On Sustaining Self -- Research Papers -- Huemul – A Smalltalk Implementation -- SBCL: A Sanely-Bootstrappable Common Lisp -- Reflection for the Masses -- Back to the Future in One Week — Implementing a Smalltalk VM in PyPy -- Are Bytecodes an Atavism?.
Sommario/riassunto	This book constitutes the refereed proceedings of the First Workshop on Self-sustaining Systems, S3, held in Potsdam, Germany, in May 2008. S3 is a forum for discussion of topics relating to computer systems and languages that are able to bootstrap, implement, modify, and maintain themselves. One property of these systems is that their implementation is based on small but powerful abstractions; examples

include (amongst others) Squeak/Smalltalk, COLA, Klein/Self, PyPy/Python, Rubinius/Ruby, and Lisp. Such systems are the engines of their own replacement, giving researchers and developers great power to experiment with, and explore future directions from within their own small language kernels.