1. Record Nr. UNINA9910789313803321

Autore	Pitts A. M (Andrew M.)
Titolo	Nominal sets : names and symmetry in computer science / / Andrew M. Pitts [[electronic resource]]
Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 2013
ISBN	1-139-89077-8 1-107-24758-6 1-107-25007-2 1-107-01778-5 1-139-08467-4 1-107-24924-4 1-107-24841-8 1-107-25090-0
Descrizione fisica	1 online resource (xiii, 276 pages) : digital, PDF file(s)
Collana	Cambridge tracts in theoretical computer science ; ; 57
Disciplina	005.13
Soggetti	Programming languages (Electronic computers) - Semantics Programming languages (Electronic computers) - Syntax
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	Introduction -- Part One : Theory. Permutations -- Support -- Freshness -- Name abstraction -- Orbit-finiteness -- Equivalents of Nom -- -- Part Two : Applications. Inductive and coinductive definitions -- Nominal algebraic data types -- Locally scoped names -- Functional programming -- Domain theory -- Computational logic.
Sommario/riassunto	Nominal sets provide a promising new mathematical analysis of names in formal languages based upon symmetry, with many applications to the syntax and semantics of programming language constructs that involve binding, or localising names. Part I provides an introduction to the basic theory of nominal sets. In Part II, the author surveys some of the applications that have developed in programming language semantics (both operational and denotational), functional programming and logic programming. As the first book to give a detailed account of the theory of nominal sets, it will be welcomed by researchers and graduate students in theoretical computer science.