

1. Record Nr.	UNINA9910437589203321
Autore	Martinez Maria Vanina
Titolo	A general framework for reasoning on inconsistency // Maria Vanina Martinez, Cristian Molinaro, V.S. Subrahmanian, Leila Amgoud
Pubbl/distr/stampa	New York : , : Springer, , 2013
ISBN	1-4614-6750-0
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (vii, 45 pages)
Collana	SpringerBriefs in Computer Science, , 2191-5768
Disciplina	001.6 001.642
Soggetti	Logic design Inconsistency (Logic) Computer logic
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"ISSN: 2191-5768." "ISSN: 2191-5776 (electronic)."
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction and Preliminary Concepts -- A General Framework for Handling Inconsistency -- Algorithms -- Handling Inconsistency in Monotonic Logics -- Link with Existing Approaches -- Conclusions.
Sommario/riassunto	This SpringerBrief proposes a general framework for reasoning about inconsistency in a wide variety of logics, including inconsistency resolution methods that have not yet been studied. The proposed framework allows users to specify preferences on how to resolve inconsistency when there are multiple ways to do so. This empowers users to resolve inconsistency in data leveraging both their detailed knowledge of the data as well as their application needs. The brief shows that the framework is well-suited to handle inconsistency in several logics, and provides algorithms to compute preferred options. Finally, the brief shows that the framework not only captures several existing works, but also supports reasoning about inconsistency in several logics for which no such methods exist today.