

1. Record Nr.	UNINA9910465756603321
Autore	Blanchette Jean-Francois
Titolo	Burdens of proof : cryptographic culture and evidence law in the age of electronic documents // Jean-Francois Blanchette
Pubbl/distr/stampa	Cambridge, Massachusetts : , : MIT Press, , c2012 [Piscataqay, New Jersey] : , : IEEE Xplore, , [2012]
ISBN	1-280-49888-9 9786613594112 0-262-30156-3
Descrizione fisica	1 online resource (283 p.)
Disciplina	347/.064
Soggetti	Electronic evidence Data encryption (Computer science) - Law and legislation Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (p. [233]-254) and index.
Nota di contenuto	Communication in the presence of adversaries -- On the brink of a revolution -- The signature model -- Written proof -- The state of paper -- The cryptographic imagination -- Epilogue.
Sommario/riassunto	The gradual disappearance of paper and its familiar evidential qualities affects almost every dimension of contemporary life. From health records to ballots, almost all documents are now digitized at some point of their life cycle, easily copied, altered, and distributed. In <i>Burdens of Proof</i> , Jean-Francois Blanchette examines the challenge of defining a new evidentiary framework for electronic documents, focusing on the design of a digital equivalent to handwritten signatures. From the blackboards of mathematicians to the halls of legislative assemblies, Blanchette traces the path of such an equivalent: digital signatures based on the mathematics of public-key cryptography. In the mid-1990s, cryptographic signatures formed the centerpiece of a worldwide wave of legal reform and of an ambitious cryptographic research agenda that sought to build privacy, anonymity, and accountability into the very infrastructure of the Internet. Yet markets for cryptographic products collapsed in the aftermath of the

dot-com boom and bust along with cryptography's social projects. Blanchette describes the trials of French bureaucracies as they wrestled with the application of electronic signatures to real estate contracts, birth certificates, and land titles, and tracks the convoluted paths through which electronic documents acquire moral authority. These paths suggest that the material world need not merely succumb to the virtual but, rather, can usefully inspire it. Indeed, Blanchette argues, in renewing their engagement with the material world, cryptographers might also find the key to broader acceptance of their design goals.
