

1. Record Nr.	UNINA9910806904903321
Titolo	Future directions for NSF advanced computing infrastructure to support U.S. science and engineering in 2017-2020 : interim report / / National Research Council
Pubbl/distr/stampa	Washington, District of Columbia : , : The National Academies Press, , 2014 ©2014
ISBN	0-309-31382-1 0-309-31380-5
Descrizione fisica	1 online resource (49 p.)
Disciplina	004
Soggetti	Cyberinfrastructure High performance computing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	""Front Matter""; ""Preface""; ""Acknowledgment of Reviewers""; ""Contents""; ""Summary""; ""1 The Role of Advanced Computing in Science and Engineering""; ""2 Challenges""; ""3 Possible NSF Responses""; ""Appendixes""; ""Appendix A: Biographies of Committee Members""; ""Appendix B: Questions on Directions and Needs for Advanced Cyberinfrastructure""
Sommario/riassunto	"Advanced computing, a term used in this report to include both compute- and data-intensive capabilities, is used to tackle a rapidly growing range of challenging science and engineering problems. The National Science Foundation (NSF) requested that the National Research Council (NRC) carry out a study examining anticipated priorities and associated trade-offs for advanced computing in support of NST-sponsored science and engineering research. The study encompasses advanced computing activities and programs throughout NSF, including but not limited to those of its Division on Advanced Cyberinfrastructure."