Ensuring the Integrity, Accessibility, and Stewardship of Research Data in the Digital Age

Year

2009

Body

As digital technologies are expanding the power and reach of research, they are also raising complex issues. These include complications in ensuring the validity of research data; standards that do not keep pace with the high rate of innovation; restrictions on data sharing that reduce the ability of researchers to verify results and build on previous research; and huge increases in the amount of data being generated, creating severe challenges in preserving that data for long-term use.

Ensuring the Integrity, Accessibility, and Stewardship of Research Data in the Digital Age examines the consequences of the changes affecting research data with respect to three issues - integrity, accessibility, and stewardship - and finds a need for a new approach to the design and the management of research projects.

The report recommends that all researchers receive appropriate training in the management of research data, and calls on researchers to make all research data, methods, and other information underlying results publicly accessible in a timely manner. The book also sees the stewardship of research data as a critical long-term task for the research enterprise and its stakeholders.

Read *Ensuring the Integrity, Accessibility, and Stewardship of Research Data in the Digital Age*

Rights

Use of Materials on the OEC

Resource Type

Expert Reports

Parent Collection

The National Academies Press: Consensus Study Reports

Topics

Big Data
Controversies
Data Management
Emerging Technologies
Intellectual Property and Patents
Privacy and Surveillance
Public Well-being
Publication Ethics
Research Misconduct
Responsible Innovation

Discipline(s)

Computer, Math, and Physical Sciences
Engineering
International Perspectives
Life and Environmental Sciences
Research Ethics
Social and Behavioral Sciences

Publisher

National Academies Press
Authoring Institution
National Academies of Sciences, Engineering, and Medicine