

1. Record Nr.	UNINA9910254612103321
Titolo	International Cooperation for Enhancing Nuclear Safety, Security, Safeguards and Non-proliferation : Proceedings of the XIX Edoardo Amaldi Conference, Accademia Nazionale dei Lincei, Rome, Italy, March 30-31, 2015 / / edited by Luciano Maiani, Said Abousahl, Wolfgang Plastino
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
ISBN	3-319-24322-5
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (146 p.)
Collana	Springer Proceedings in Physics, , 1867-4941 ; ; 172
Disciplina	530
Soggetti	Security systems Nuclear engineering Physics - Study and teaching International relations Security Science and Technology Nuclear Energy Education in Physics International Relations
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 at the end of each chapters and index.
Nota di contenuto	Perspectives on Nuclear Safety and Security -- Nuclear Safeguards and Non-Proliferation -- Scientific Community Actions to Shape National Perspectives Towards a Better Synergy Between Safety, Security and Safeguards -- Scientific Community Actions to Shape National Perspectives Towards Nuclear Security Current and Future Challenges -- Scientific Community Actions to Shape Enhanced Nuclear Safeguards and Non-Proliferation Policies -- Scientific and Technical Challenges to the Effective Implementation of the "3s" (Safety, Security and Safeguards) Approach -- Role of International Cooperation And Scientific Community Actions for Enhancing Nuclear Safety, Security, Safeguards and Non--Proliferation.

Sommario/riassunto

This book, comprising contributions presented at the XIX Edoardo Amaldi Conference, examines important aspects of international cooperation aimed at enhancing nuclear safety, security, safeguards (the “3S”), and non-proliferation, thereby assisting in the development and maintenance of the verification regime and progress toward a nuclear weapon-free world. The Conference served as a forum where eminent scientists, diplomats, and policymakers could compare national perspectives and update international collaborations. The book opens by addressing the political, institutional, and legal dimensions of the 3S and non-proliferation; current challenges are discussed and attempts made to identify possible solutions and future improvements. Subsequent sections consider scientific developments that can contribute to increased effectiveness in the implementation of international regimes, particularly in critical areas, technology foresight, and the ongoing evaluation of current capabilities. The closing sections discuss scientific and technical challenges to the effective implementation of the 3S approach and the role of international cooperation and scientific community actions in leading the world toward peace and security.
