

1. Record Nr.	UNISA996534462803316
Titolo	Mathematics Going Forward [[electronic resource]] : Collected Mathematical Brushstrokes / / edited by Jean-Michel Morel, Bernard Teissier
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2023
ISBN	9783031122446 9783031122439
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (629 pages)
Collana	Lecture Notes in Mathematics, , 1617-9692 ; ; 2313
Disciplina	510
Soggetti	Mathematics Algebraic geometry Probabilities History Algebraic topology Differential equations General Mathematics and Education Algebraic Geometry Probability Theory History of Mathematical Sciences Algebraic Topology Differential Equations Matemàtica Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	1. Algebraic Geometry -- 2. Dynamical Systems -- 3. Finance -- 4. Geometry -- 5. Groups -- 6. History of Mathematics -- 7. Information Theory -- 8. Logic -- 9. Mathematical Models -- 10. Mathematical Physics and PDEs -- 11. Number Theory -- 12. Probability Theory.
Sommario/riassunto	This volume is an original collection of articles by 44 leading mathematicians on the theme of the future of the discipline. The

contributions range from musings on the future of specific fields, to analyses of the history of the discipline, to discussions of open problems and conjectures, including first solutions of unresolved problems. Interestingly, the topics do not cover all of mathematics, but only those deemed most worthy to reflect on for future generations. These topics encompass the most active parts of pure and applied mathematics, including algebraic geometry, probability, logic, optimization, finance, topology, partial differential equations, category theory, number theory, differential geometry, dynamical systems, artificial intelligence, theory of groups, mathematical physics and statistics.
