1.	Record Nr.	UNINA9910254077403321
	Titolo	Advances in the mathematical sciences : research from the 2015 Association for Women in Mathematics Symposium / / edited by Gail Letzter, Kristin Lauter, Erin Chambers, Nancy Flournoy, Julia Elisenda Grigsby, Carla Martin, Kathleen Ryan, Konstantina Trivisa
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
	ISBN	3-319-34139-1
	Edizione	[1st ed. 2016.]
	Descrizione fisica	1 online resource (XVII, 436 p. 141 illus., 97 illus. in color.)
	Collana	Association for Women in Mathematics Series, , 2364-5733 ; ; 6
	Disciplina	510
	Soggetti	Applied mathematics Engineering mathematics Topology Biomathematics Partial differential equations Mathematics—Study and teaching Statistics Applications of Mathematics Mathematical and Computational Biology Partial Differential Equations Mathematics Education Statistics, general
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di bibliografia	Includes bibliographical references.
	Nota di contenuto	Preface -- Floer field philosophy (K. Wehrheim) -- An elementary fact about unlinked braid closures (E. Grigsby & S. M. Wehrli) -- Symmetric unions without cosmetic crossing changes (A. H. Moore) -- The total Thurston–Bennequin number of complete bipartite Legendrian graphs (D. O'Donnol and E. Pavelescu) -- Coverings of open books (T. Ito and K. Kawamuro) -- Understanding locomotor rhythm in the lamprey central pattern generator (N. Massarelli, A. Yau, K. Hoffman, T. Kiemel and E. Tytell) -- Applications of knot theory: using knot theory to

unravel biochemistry mysteries (C. R. Price) -- Metapopulation and non-proportional vaccination models overview (M. Cruz-Aponte) -- Controlling a cockroach infestation (H. Albert, A. Buchmann, L. Ohm, A. Radunskaya, and E. Swanson) -- The impact of violence interruption on the diffusion of violence: a mathematical modeling approach (S. A. Wiley, M. Z. Levy, and C. C. Branas) -- Cramér's theorem is atypical (N. Gentert, S. Kim, and K. Ramanan) -- Counting and partition function analysis for subordinate killed Brownian motion (S. Bryant) -- A statistical change point analysis approach for modeling the ratio of next generation sequencing reads (J. Chen and H. Li) -- A center-level approach to estimating the effect of center characteristics on center outcomes (J. Le-Rademacher) -- False discovery rate based on extreme values in high dimension (J. Park, D. Park, and J. W. Davis) -- Asymptotic and oscillatory behavior of dynamic equations on time scales (R. Higgins) -- Using applications to motivate the learning of differential equations (K. M. Bliss & J. M. Libertini) -- What is a good question? (B. Servatius) -- Information measures of frequency distributions with an application to labeled graphs (C. Joslyn & E. Purvine) -- Integrating and sampling cuts in bounded treewidth graphs (I. Bezáková, E. W. Chambers, and K. Fox) -- Considerations on the implementation and use of Anderson acceleration on distributed memory and GPU-based parallel computers (J. Loffeld & C. S. Woodward).

| Sommario/riassunto | Presenting the latest findings in topics from across the mathematical spectrum, this volume includes results in pure mathematics along with a range of new advances and novel applications to other fields such as probability, statistics, biology, and computer science. All contributions feature authors who attended the Association for Women in Mathematics Research Symposium in 2015: this conference, the third in a series of biennial conferences organized by the Association, attracted over 330 participants and showcased the research of women mathematicians from academia, industry, and government. |