1. Record Nr. UNINA9910778600903321

Autore	Anashin Vladimir
Titolo	Applied algebraic dynamics [[electronic resource] /] / by Vladimir Anashin and Andrei Khrennikov
Pubbl/distr/stampa	Berlin ; ; New York, : Walter De Gruyter, c2009
ISBN	1-282-18794-5 9786612187940 3-11-020301-4
Descrizione fisica	1 online resource (557 p.)
Collana	De Gruyter expositions in mathematics, , 0938-6572 ; ; 49
Classificazione	SK 810
Altri autori (Persone)	KhrennikovA. IU <1958-> (Andrei IUrevich)
Disciplina	512
Soggetti	Arithmetical algebraic geometry Differentiable dynamical systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	Frontmatter -- Contents -- Chapter 1. Algebraic and number-theoretic background -- I. The Commutative Non-Archimedean Dynamics -- Chapter 2. Dynamics on algebraic structures -- Chapter 3. p-adic analysis -- Chapter 4. p-adic ergodic theory -- Chapter 5. Asymptotic distribution of cycles -- II. The Non-Commutative Non-Archimedean Dynamics -- Chapter 6. Basics of polynomial dynamics on groups -- Chapter 7. Ergodic polynomials over groups with operators -- III. Applications -- Chapter 8. Automata, computers, combinatorics -- Chapter 9. Pseudorandom numbers -- Chapter 10. Stream ciphers -- Chapter 11. Structure of trajectories -- Chapter 12. p-adic probability theory -- Chapter 13. p-adic valued quantization -- Chapter 14. m-adic modeling in cognitive science and psychology -- Chapter 15. Neuronal hierarchy behind the ultrametric mental space -- Chapter 16. Gene expression from dynamics in the 2-adic space -- Chapter 17. Genetic code on the diadic plane -- Backmatter
Sommario/riassunto	This monograph presents recent developments of the theory of algebraic dynamical systems and their applications to computer sciences, cryptography, cognitive sciences, psychology, image analysis, and numerical simulations. The most important mathematical results presented in this book are in the fields of ergodicity, p-adic numbers,

	and noncommutative groups. For students and researchers working on the theory of dynamical systems, algebra, number theory, measure theory, computer sciences, cryptography, and image analysis.

2.

Record Nr.	UNICAMPANIAVAN0277843
Autore	Palacios, Antonio
Titolo	Mathematical Modeling : A Dynamical Systems Approach to Analyze Practical Problems in STEM Disciplines / Antonio Palacios
Pubbl/distr/stampa	Cham, : Springer, 2022
Descrizione fisica	xvii, 564 p. : ill. ; 24 cm
Soggetti	00A06 - Mathematics for nonmathematicians (engineering, social sciences, etc.) [MSC 2020] 00A71 - General theory of mathematical modeling [MSC 2020] 37-XX - Dynamical systems and ergodic theory [MSC 2020] 37Nxx - Applications of dynamical systems [MSC 2020]
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia