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Nota di contenuto	Contents -- Preface -- Nonconvergence examples in averaging -- Periodic rank one geodesics in Hadamard spaces -- Dynamical determinants and spectrum for hyperbolic diffeomorphisms -- Open problems in symbolic dynamics -- 1. Introduction -- 2. Definitions -- 3. Classification of SFTs and the Little Shift Equivalence Conjecture -- 4. Range of the dimension representation -- 5. Positive Rational Shift Equivalence Conjecture -- 6. The Generalized Spectral Conjecture -- 7. The Equal Entropy Factors Conjecture for SFTs -- 8. The factors problem for sofic shifts -- 9. The Good Finitary Conjecture for Markov shifts -- 10. What can be a beta function? -- 11. Structure of expansive subdynamics -- 12. Can nonSFT expansive maps commute with irreducible SFTs? -- 13. The Commuting Powers Conjecture for SFTs -- 14. Jointly invariant measures -- 15. Zd SFTs -- 16. Stable limit sets of cellular automata -- 17. Algebraic Zd SFTs -- 18. Finitary codes and Markov random fields -- 19. Decidability problems -- 20. Onesided SFTs: the embedding problem -- 21. Onesided sofic shifts: the classification problem -- 22. The Virtual FOG Conjecture for automorphisms of a mixing SFT -- 23. Topological orbit equivalence

-- 24. Symbolic extension entropy and entropy structure -- 25. Cellular automata and periodic points -- 26. Cellular automata on big groups -- 27. Entropy conjugacy and countable state Markov chains -- 28. Beta shifts: Salem numbers and intrinsic ergodicity -- 29. Adler's Renewal Question -- 30. The Road Coloring Problem -- 31. Parry's Finiteness Question for skew products -- 32. Classification of sofic shifts -- 33. Classification and flow equivalence of general shifts -- 34. The Pisot Conjecture -- 35. Nivat's Conjecture -- Appendices -- Appendix A. Commuting SFTs and periodic points -- Appendix B. Commuting SFTs from commuting matrices, following Nasu -- Appendix C. LR Textile Systems -- Appendix D. Commuting SFTs from matrices commuting on dimension -- Appendix E. Primitive matrices SE but not SSE over $\mathbb{Z} + [1/p]$ -- Appendix F. Examples for the one-sided sofic classification problem -- Bibliography -- New examples of topologically equivalent S-unimodal maps with different metric properties -- Appendix. Quasiconformal deformation of multipliers -- A remark on the group of PL-homeomorphisms in dimension one -- Fermi acceleration -- Introduction -- Stochastic models -- One and a half degree of freedom -- Several degrees of freedom -- Galton board -- Conclusions -- References -- Riemannian 2-step nilmanifolds with prescribed Ricci tensor -- On the Greenfield-Wallach and Katok conjectures in dimension three -- Metastability and Stochastic Resonance for Multiscale Systems.
