1. Record Nr. UNINA9910454502803321

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Titolo	Demons in Eden [[electronic resource]] : the paradox of plant diversity / / Jonathan Silvertown
Pubbl/distr/stampa	Chicago, : University of Chicago Press, c2008
ISBN	0-226-75777-3 1-281-96650-9 9786611966508
Descrizione fisica	1 online resource (204 p.)
Classificazione	AR 13540
Disciplina	581.722
Soggetti	Plant diversity Plant diversity conservation Electronic books.
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 (p. [167]-179) and index.
Nota di contenuto	Frontmatter -- Contents -- Preface -- 1. An Evolving Eden -- 2. The Tree of Trees -- 3. Succulent Isles -- 4. Demon Mountain -- 5. The Panama Paradox -- 6. Nix Nitch -- 7. Liebig's Revenge -- 8. Florida! -- 9. New Demons? -- 10. The End of Eden? -- 11. Fynbos Finale -- Scientific Names of Plants Mentioned in the Text -- Sources and Further Reading -- Index
Sommario/riassunto	At the heart of evolution lies a bewildering paradox. Natural selection favors above all the individual that leaves the most offspring-a superorganism of sorts that Jonathan Silvertown here calls the "Darwinian demon." But if such a demon existed, this highly successful organism would populate the entire world with its own kind, beating out other species and eventually extinguishing biodiversity as we know it. Why then, if evolution favors this demon, is the world filled with so many different life forms? What keeps this Darwinian demon in check? If humankind is now the greatest threat to biodiversity on the planet, have we become the Darwinian demon? Demons in Eden considers these questions using the latest scientific discoveries from the plant world. Readers join Silvertown as he explores the astonishing diversity of plant life in regions as spectacular as the verdant climes of Japan,

	the lush grounds of the Royal Botanical Gardens at Kew, the shallow wetlands and teeming freshwaters of Florida, the tropical rainforests of southeast Mexico, and the Canary Islands archipelago, whose evolutionary novelties-and exotic plant life-have earned it the sobriquet "the Galapagos of botany." Along the way, Silvertown looks closely at the evolution of plant diversity in these locales and explains why such variety persists in light of ecological patterns and evolutionary processes. In novel and useful ways, he also investigates the current state of plant diversity on the planet to show the ever-challenging threats posed by invasive species and humans. Bringing the secret life of plants into more colorful and vivid focus than ever before, Demons in Eden is an empathic and impassioned exploration of modern plant ecology that unlocks evolutionary mysteries of the natural world.

2.	Record Nr.	UNINA9910143634803321
	Titolo	Hybrid systems : computation and control : Third International Workshop, HSCC 2000, Pittsburgh, PA, USA, March 23-25, 2000 : proceedings / / Nancy A. Lynch, Bruce H. Krogh, (Eds.)
	Pubbl/distr/stampa	Berlin, Germany ; ; New York, New York : , : Springer, , [2000] Â©2000
	ISBN	3-540-46430-1
	Edizione	[1st ed. 2000.]
	Descrizione fisica	1 online resource (XII, 465 p.)
	Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 1790
	Disciplina	004.1/9
	Soggetti	Hybrid computers Digital control systems
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Bibliographic Level Mode of Issuance: Monograph
	Nota di bibliografia	Includes bibliographical references.
	Nota di contenuto	Invited Presentations -- Hybrid Models for Automotive Powertrain Systems: Revisiting a Vision -- Experiences in Designing and Using Formal Specification Languages for Embedded Control Software -- Model-Based Autonomous Systems for Robotic Space Exploration -- Models of Computation and Simulation of Hybrid Systems -- Selected

Presentations -- Modular Specification of Hybrid Systems in Charon -- Approximate Reachability Analysis of Piecewise-Linear Dynamical Systems -- Maximal Safe Set Computation for Idle Speed Control of an Automotive Engine -- Optimization-Based Verification and Stability Characterization of Piecewise Affine and Hybrid Systems -- Invariant Sets and Control Synthesis for Switching Systems with Safety Specifications -- Verification of Hybrid Systems with Linear Differential Inclusions Using Ellipsoidal Approximations -- Theory of Optimal Control Using Bisimulations -- Behavior Based Robotics Using Hybrid Automata -- Hybrid Controllers for Hierarchically Decomposed Systems -- Beyond HyTech: Hybrid Systems Analysis Using Interval Numerical Methods -- Robust Undecidability of Timed and Hybrid Systems -- Towards a Theory of Stochastic Hybrid Systems -- Automatic Compilation of Concurrent Hybrid Factories from Product Assembly Specifications -- A Hybrid Feedback Regulator Approach to Control an Automotive Suspension System -- Ellipsoidal Techniques for Reachability Analysis -- Uniform Reachability Algorithms -- On the Existence of Solutions to Controlled Hybrid Automata -- Nonlinear Stabilization by Hybrid Quantized Feedback -- Diagnosis of Quantised Systems by Means of Timed Discrete-Event Representations -- Existence and Stability of Limit Cycles in Switched Single Server Flow Networks Modelled as Hybrid Dynamical Systems -- Hybrid Systems Diagnosis -- Decidability and Complexity Results for Timed Automata and Semi-linear Hybrid Automata -- Level Set Methods for Computation in Hybrid Systems -- Towards Procedures for Systematically Deriving Hybrid Models of Complex Systems -- Computing Optimal Operation Schemes for Chemical Plants in Multi-batch Mode -- Hybrid Systems Verification by Location Elimination -- A Dynamic Bayesian Network Approach to Tracking Using Learned Switching Dynamic Models -- Stability of Hybrid Systems Using LMIs — A Gear-Box Application -- Invariance of Approximating Automata for Piecewise Linear Systems with Uncertainties -- Decidable Controller Synthesis for Classes of Linear Systems -- Towards a Geometric Theory of Hybrid Systems -- Controlled Invariance of Discrete Time Systems -- Dynamical Systems Revisited: Hybrid Systems with Zeno Executions.