Record Nr.	UNINA9910144213003321
Titolo	Computers and Games : Third International Conference, CG 2002, Edmonton, Canada, July 25-27, 2002, Revised Papers / / edited by Jonathan Schaeffer, Martin Müller, Yngvi Björnsson
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2003
ISBN	3-540-40031-1
Edizione	[1st ed. 2003.]
Descrizione fisica	1 online resource (XII, 436 p.)
Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 2883
Disciplina	794.8/1416
Soggetti	Computer science
	Computer science—Mathematics
	Data structures (Computer science)
	Algorithms
	Numerical analysis Mathematical statistics
	Popular Computer Science
	Discrete Mathematics in Computer Science
	Data Structures
	Algorithm Analysis and Problem Complexity
	Numeric Computing
	Probability and Statistics in Computer Science
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 and index.
Nota di contenuto	1: Evaluation and Learning Distinguishing Gamblers from Investors at the Blackjack Table MOUSE(?): A Self-teaching Algorithm that Achieved Master-Strength at Othello Investigation of an Adaptive Cribbage Player Learning a Game Strategy Using Pattern-Weights and Self-play 2: Search PDS-PN: A New Proof-Number Search Algorithm A Generalized Threats Search Algorithm Proof-Set Search A Comparison of Algorithms for Multi-player Games Selective Search in an Amazons Program Playing Games with Multiple Choice Systems The Neural MoveMap Heuristic in Chess

	Board Maps and Hill-Climbing for Opening and Middle Game Play in Shogi 3: Combinatorial Games/Theory Solitaire Clobber Complexity of Error-Correcting Codes Derived from Combinatorial Games Analysis of Composite Corridors 4: Opening/Endgame Databases New Winning and Losing Positions for 7×7 Hex Position-Value Representation in Opening Books Indefinite Sequence of Moves in Chinese Chess Endgames 5: Commercial Games ORTS: A Hack-Free RTS Game Environment Causal Normalization: A Methodology for Coherent Story Logic Design in Computer Role-Playing Games A Structure for Modern Computer Narratives 6: Single- Agent Search/Planning Tackling Post's Correspondence Problem Perimeter Search Performance Using Abstraction for Planning in Sokoban 7: Computer Go A Small Go Board Study of Metric and Dimensional Evaluation Functions Local Move Prediction in Go Evaluating Kos in a Neutral Threat Environment: Preliminary Results.
Sommario/riassunto	The Computers and Games (CG) series began in 1998 with the objective of showcasing new developments in arti?cial intelligence (AI) research that used games as the experimental test-bed. The ?rst two CG conferences were held at Hamamatsu,Japan(1998,2000). ComputersandGames2002(CG2002)wasthe third event in this biennial series. The conference was held at the University of Alberta(Edmonton, Alberta,Canada),July25–27,2002.Theprogramconsisted of the main conference featuring refereed papers and keynote speakers, as well as several side events including the Games Informatics Workshop, the Agents in Computer Games Workshop, the Trading Agents Competition, and the North American Computer Go Championship. CG 2002 attracted 110 participants from over a dozen countries. Part of the successoftheconferencewasthatitwasco- locatedwiththeNationalConference of the American Association for Arti? cial Intelligence (AAAI), which began in Edmonton just as CG 2002 ended. The CG 2002 program had 27 refereed paper presentations. The papers ranged over a wide variety of AI-related topics including search, knowledge, learning, planning, and combinatorial game theory. Research test-beds included one-player games (blackjack, sliding-tile puzzles, Sokoban), two-player games (Amazons, awari, chess, Chinese chess, clobber, Go, Hex, Lines of Action, O- ello, shogi), multi-player games (Chinese checkers, cribbage, Diplomacy, hearts, spades), commercial games (role-playing games, real-time strategy games), and novel applications (Post's Correspondence Problem).