Computer Chess Compendium

Computer Chess CompendiumComputer Chess CompendiumEncyclopedia of Computer Science and TechnologyComputer GamesScalable Search in Computer ChessAdvances in Computer GamesThe Joy of Computer ChessChessThe Oxford Companion to ChessProceedingsAdvances in Computer GamesIs Law Computable?AI MagazineEighth Annual Computer Game Developers Conference ProceedingsEncyclopedia of Artificial IntelligenceNew Approaches to Board Games ResearchThe Artificial Intelligence CompendiumThe British Chess MagazineComputer Games IIChess Life D. LEVY David N. L. Levy Allen Kent Tristan Cazenave Ernst A. Heinz H. Jaap van den Herik David N. L. Levy David Hooper Simon Deakin Stuart Charles Shapiro Alexander J. de Voogt David N.L. Levy

for many years i have been interested in computer chess and have collected almost every learned paper and article on the subject that i could find my files are now quite large and a considerable amount of time effort and expense has been required to build up this collection i have often thought how difficult it must be for many computer chess enthusiasts to acquire copies of articles that they see referenced in some other work unless one has access to a good reference library the task is almost impossible i therefore decided to try to make available in one volume as many as possible of the most interesting and important articles and papers ever written on the subject such a selection is naturally somewhat subjective and i hope that i will not offend authors whose works have been excluded in particular i have decided to exclude any material which has appeared in the journal of the international computer chess association icca or in its precursor the icca newsletter the reason is simply that the icca itself is in the process of compiling a compendium containing the most important material published in those sources for further information on icca membership and publications the reader is invited to contact professor h 1 van den herik

or dr jonathan schaeffer university of limburg computing science dcpaitment department of computer science university of alberta 6200 md maastricht edmonton netherlands alberta canada t6g 2hi

the increase in strength of chess computers over the last ten years has resulted in many books and articles on programming methods and new approaches to analyzing positions in this book important articles have been collected in one volume together with the best games by chess computers including the first five world microcomputer championships every article has been transliterated into algebraic notation and the book is aimed at chess players and computer enthusiasts particularly those with an interest in artifical intelligence

this comprehensive reference work provides immediate fingertip access to state of the art technology in nearly 700 self contained articles written by over 900 international authorities each article in the encyclopedia features current developments and trends in computers software vendors and applications extensive bibliographies of leading figures in the field such as samuel alexander john von neumann and norbert wiener and in depth analysis of future directions

this book constitutes revised selected papers from the 6th workshop on computer games cgw 2017 held in conjunction with the 26th international conference on artificial intelligence ijcai 2017 in melbourne australia in august 2017 the 12 full papers presented in this volume were carefully reviewed and selected from 18 submissions they cover a wide range of topics related to computer games discussing six abstract games chinese checkers chinese dark chess hex othello poker and samegame

this book presents the results of our past two and a half years of research aimed at increasing the scalability and performance of game tree search in computer chess we elaborate on our respective works in the areas of i selective forward pruning ii the efficient application of game theoretical knowledge and iii the behaviour of the search at increasing depths the broad range of topics covered by the three distinct parts of the book seek to provide interesting material for everybody interested in the field of compu tational intelligence regardless of their individual focus researcher student or other the text does not require readers to know about chess and computer game playing beforehand the initial chapter entitled computer chess primer introduces all the necessary basics and fundamentals thereof the remaining chapters however go far beyond those topics they show how to make sophisticated game tree searchers still more scalable at ever higher depths throughout the whole book our high speed and master strength chess program darkthought serves as a realistic test vehicle to conduct numerous experiments at unprecedented search depths the extensive experimental evalu ations provide convincing empirical evidence for the practical usefulness of the techniques presented by us these results will certainly be of special interest to researchers and programmers of computer strategy games alike chess checkers go and othello in particular last but not least i like to mention that i am most grateful to the series editors for offering me the opportunity to publish my book under their auspices

1 feel privileged that the j jh advances in computer games conference acg 10 takes place in graz styria austria it is the frrst time that austria acts as host country for this major event the series of conferences started in edinburgh scotland in 1975 and was then held four times in england three times in the netherlands and once in germany the acg 10 conference in graz is special in that it is organised together with the 11th world computer chess championship wccc the sth computer olympiad co and the european union y outh chess championship the 11 th wccc and acg 10 take place in the dom im berg dome in the mountain a high tech space with multimedia equipment located in the schlossberg in the centre of the city the help of many sponsors large and small is gratefully acknowledged they will make the organisation of this conference a success in particular 1 would like to thank the european union for designating graz as the cultural capital of europe 2003 there are 24 accepted contributions by participants from all over the world europe japan usa and canada the specific research results ofthe acg 10 are expected to tind their way to general applications the results are described in the pages that follow the international stature together with the technical importance of this conference reaffrrms the mandate of the international computer games association icga to represent the computer games community

teaches chess players the principles of chess programming how the computer decides which move to make teaches how to write their own chess programs

this newly revised edition by former british correspondence chess chanpion david hooper has been called one of the most readable and useful chess reference books available more than 2 500 entries cover subjects from named openings and strategies to computers and theatre illustrated with over 500 chess diagrams this book will appeal to chess players of all levels

what does computable law mean for the autonomy authority and legitimacy of the legal system are we witnessing a shift from rule of law to a new rule of technology should we even build these things in the first place this unique volume collects original papers by a group of leading international scholars to address some of the fascinating questions raised by the encroachment of artificial intelligence ai into more aspects of legal process administration and culture weighing near term benefits against the longer term and potentially path dependent implications of replacing human legal authority with computational systems this volume pushes back against the more uncritical accounts of ai in law and the eagerness of scholars governments and legaltech developers to overlook the more fundamental and perhaps bigger picture ramifications of computable law with contributions by simon deakin christopher markou mireille hildebrandt roger brownsword sylvie delacroix lyria bennet moses ryan abbott jennifer cobbe lily hands john morison alex sarch and dilan thampapillai as well as a foreword from frank pasquale

long before the advent of the electronic computer man was fascinated by the idea of automating the thought processes employed in playing games of skill the very first chess automaton captured the imagination oflate eighteenth century vienna and by the early 1900s there was a genuine machine that could play the

chess endgame of king and rook against a lone king soon after the invention of the computer scientists began to make a serious study of the problems involved in programming a machine to play chess within a decade this interest started to spread first to draughts checkers and later to many other strategy games by the time the home computer was born there had already been three decades of research into computer games many of the results of this research were published though usually in publications that are extremely difficult or even impossible for most people to find hence the present volumes interest in computers and programming has now reached into almost every home in the civilized world millions of people have regular access to computers and most of them enjoy playing games in fact approximately 80 percent of all software sold for use on personal computers is games software

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