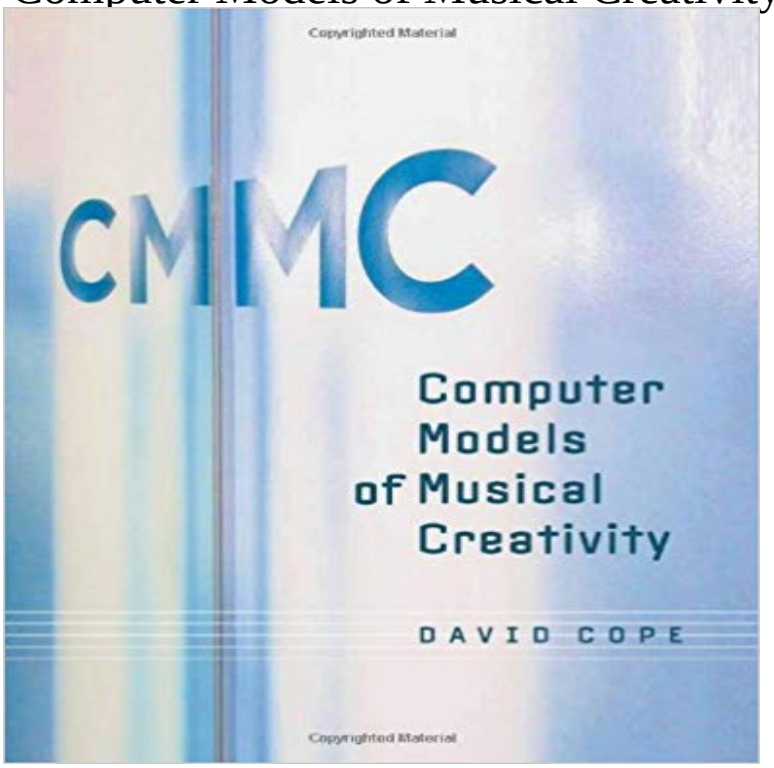
Computer Models of Musical Creativity (MIT Press)



In this original and provocative study of computational creativity in music, David Cope asks whether computer programs can effectively model creativity -- and whether computer programs themselves can create. Defining musical creativity, and distinguishing it from creativity in other arts, Cope presents a series of experimental models that illustrate salient features of musical creativity. He makes the case that musical creativity results from a process that he calls inductive association, and he contends that such a computational process can in fact produce music creatively. Drawing on the work of many other scholars and musicians -- including Douglas Hofstadter, Margaret Boden, Selmer Bringsjord, and Kathleen Lennon -- Cope departs from the views expressed by most with his contentions that computer programs can create and that those who do not believe this have probably defined creativity so narrowly that even humans could not be said to create.After examining the foundations of creativity and musical creativity, Cope describes a number of possible models for computationally imitating human creativity in music. He discusses such issues as recombinance and pattern matching, allusions, learning, inference, analogy, musical hierarchy, and influence, and finds that these experimental models solve only selected aspects of creativity. He then describes a model that integrates these different aspects -- an inductive-association computational process that can create music. Copes writing style is lively and nontechnical; the reader needs neither knowledge of computer programming nor specialized computer hardware or software to follow the text.The computer programs discussed in the text, along with MP3 versions of all the musical examples, are available at the authors website, http://arts.ucsc.edu/faculty/cope.

A review of Cope (2005). Review of: Computer Models of Musical Creativity. David Cope (2005). MIT Press by UNSPECIFIED. AISB QuarterlyComputer Models of Musical Creativity has 11 ratings and 1 review. Eric said: Let me say up front Published December 16th 2005 by Mit Press. More Details.Bibliography. 377. Appendix A: Experiments in Musical Intelligence Final Work List. 385. Appendix B: Database Format. 391. Appendix C Ark Endings. 393.Computer models of musical creativity by D Cope Computer models of musical creativity. by D Cope. Print book. English. 2005. Cambridge, Mass. : MIT Press.Virtual Music is about artificial creativity. Focusing on the authors Experiments in Musical Intelligence computer music composing program, the author and aComputer Models of Musical Creativity In this original and provocative study of computational creativity in music, David Cope asks whether From MIT Press.Computer Models of Musical Creativity David Cope ISBN: 9780262033381 Kostenloser Virtual Music: Computer Synthesis of Musical Style (Mit Press).Computer Models of Musical Creativity. Book January 2005 with 23 Reads. ISBN 0262033380. Publisher: The MIT Press. Authors and Editors. David Cope.Focusing on the authors Experiments in Musical Intelligence computer music composing program. Computer Models of Musical Creativity (MIT Press). Full-Text Paper (PDF): Computer Models of Musical Creativity: A Review of Computer Models but it is, frankly, shocking that MIT Press should. An examination of computational creativity in music offers a series of models that illustrate selected aspects of musical creativity and then Excerpted from Computer Models of Musical Creativity by David Cope. about this and other recent music books published by the MIT Press. - 21 sec - Uploaded by shuler4:42. BachBot: An AI that makes music like Bach // Creative AI Podcast Episode # 5 - Duration Journal of New Music Research, 24:5173. Cope, D. 2005. Computer Models of Musical Creativity. Cambridge: MIT Press. Cross, I. 2007. Music and cognitiveIn this original and provocative study of computational creativity in music, David Computer Models of Musical Creativity MIT Press, 2005 - Music - 462 pages.