

Computer-Assisted Medical Decision Making (Computers and Medicine)



Computer technology has impacted the practice of medicine in dramatic ways. Imaging techniques provide noninvasive tools which alter the diagnostic process. Sophisticated monitoring equipment presents new levels of detail for both patient management and research. In most of these high technology applications, the computer is embedded in the device; its presence is transparent to the user. There is also a growing number of applications in which the health care provider directly interacts with a computer. In many cases, these applications are limited to administrative functions, e.g., office practice management, location of hospital patients, appointments, and scheduling. Nevertheless, there also are instances of patient care functions such as results reporting, decision support, surveillance, and reminders. This series, Computers and Medicine, will focus upon the direct use of information systems as it relates to the medical community. After twenty-five years of experimentation and experience, there are many tested applications which can be implemented economically using the current generation of computers. Moreover, the falling cost of computers suggests that there will be even more extensive use in the near future. Yet there is a gap between current practice and the state-of-the-art.

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medicine have emphasized CMD systems whose reasoning is transparent, sometimes **Computer-Assisted Medical Decision Making J.A. Reggia Springer** They were implemented historically at large academic medical centers by biomedical Computer-aided diagnosis, decision support tools, virtual imaging, and **Artificial Intelligence in Medicine: Proceedings of the 4th - Google Books Result** - 16 sec - Uploaded by Florian ChihaiiaComputer Assisted Medical Decision Making Computers and Medicine. Florian Chihaiia **ABC of computing. 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Authors Each of these methods is illustrated with examples taken from pulmonary medicine. **Knowledge Engineering for Medical Decision Making - Profiles in** computer assisted decision making were laid down by Lee. Lusted and Wilfrid Card in a unified program.⁷ Yet, though computers are established in signal processing used routinely only rarely for explicit help in medical decisions. Recent