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Artificial Intelligence in HCI John Wiley & Sons

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COMPLETE REVIEW OF MEDICINE FOR NBE Tata McGraw-Hill Education

This book aims to provide an international forum for scholarly researchers, practitioners and academic communities to explore the role of information and communication technologies and its applications in technical and scholarly development. The conference attracted a total of 464 submissions, of which 152 submissions (including 4 poster papers) have been selected after a double-blind review process. Academic pioneering researchers, scientists, industrial engineers and students will find this series useful to gain insight into the current research and next-generation information science and communication technologies. This book discusses the aspects of communication, data science, ambient intelligence, networking, computing, security and Internet of things, from classical to intelligent scope. The authors hope that readers find the volume interesting and valuable; it gathers chapters addressing state-of-the-art intelligent methods and techniques for solving real-world problems along with a vision of the future research.

PHP Multiple Choice Questions and Answers (MCQs) McGraw Hill Education (India) Pvt Ltd Science instructors need questions for use in exams, homework assignments, class discussions, reviews, and other instructional activities. Textbooks never have enough questions, so instructors must find them from other sources or generate their own questions. In order to supply instructors with biology questions, a semantic network approach was developed for generating open response biology questions. The generated questions were compared to professional authorized questions. To boost students learning experience, adaptive selection was built on the generated questions.

Bayesian Knowledge Tracing was used as embedded assessment of the students current competence so that a suitable question could be selected based on the students previous performance. A between-subjects experiment with 42 participants was performed, where half of the participants studied with adaptive selected questions and the rest studied with mal-adaptive order of questions. Both groups significantly improved their test scores, and the participants in adaptive group registered larger learning gains than participants in the control group. To explore the possibility of generating rich instructional feedback for machine-generated questions, a question-paragraph mapping task was identified. Given a set of questions and a list of paragraphs for a textbook, the goal of the task was to map the related paragraphs to each question. An algorithm was developed whose performance was comparable to human annotators. A multiple-choice question with high quality distractors (incorrect answers) can be pedagogically valuable as well as being much easier to grade than open-response questions. Thus, an algorithm was developed to generate good distractors for multiple-choice questions. The machine-generated multiple-choice questions were compared to human-generated questions in terms of three measures: question difficulty, question discrimination and distractor usefulness. By recruiting 200 participants from Amazon Mechanical Turk, it turned out that the two types of questions performed very closely on all the three measures.

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A process or set of rules to be followed in calculations or other problem-solving operations, especially by a computer. Key features This book is especially designed for beginners and explains all aspects of algorithm and its analysis in a simple and systematic manner. Algorithms and their working are explained in detail with the help of several illustrative examples. Important features like greedy algorithm, dynamic algorithm, string matching algorithm, branch and bound algorithm, NP hard and NP complete problems are suitably highlighted. Solved and frequently asked questions in the various competitive examinations, sample papers of the past examinations are provided which will serve as a useful reference source. Description The book has been written in such a way that the concepts and working of algorithms are explained in detail, with adequate examples. To make clarity on the topic, diagrams, calculation of complexity, algorithms are given extensively throughout. Many examples are provided which are helpful in understanding the algorithms by various strategies. This content is user-focused and has been highly updated including algorithms and their real-world

examples. What will you learn Algorithm & Algorithmic Strategy, Complexity of Algorithms Divide-and-Conquer, Greedy, Backtracking, String-Matching Algorithm Dynamic Programming, P and NP Problems Graph Theory, Complexity of Algorithms Who this book is for The book would serve as an extremely useful text for BCA, MCA, M. Sc. (Computer Science), PGDCA, BE (Information Technology) and B. Tech. and M. Tech. students. Table of contents 1. Algorithm & Algorithmic Strategy 2. Complexity of Algorithms 3. Divide-and-Conquer Algorithms 4. Greedy Algorithm 5. Dynamic Programming 6. Graph Theory 7. Backtracking Algorithms 8. Complexity of Algorithms 9. String-Matching Algorithms 10. P and NP Problems About the author Shefali Singhal is working as an Assistant professor in Computer science and Engineering department, Manav Rachna International University. She has completed her MTech. form YMCA University in Computer Engineering. Her research interest includes Programming Languages, Computer Network, Data mining, and Theory of computation. Neha Garg is working as an Assistant professor in in Computer science and Engineering department, Manav Rachna International University. She has completed her MTech. Form Banasthali University, Rajasthan in Information Technology. Her research interest includes Programming Languages, Data Structure, Operating System, Database Management Systems.

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This book presents new theories and working models in the area of data analytics and learning. The papers included in this volume were presented at the first International Conference on Data Analytics and Learning (DAL 2018), which was hosted by the Department of Studies in Computer Science, University of Mysore, India on 30–31 March 2018. The areas covered include pattern recognition, image processing, deep learning, computer vision, data analytics, machine learning, artificial intelligence, and intelligent systems. As such, the book offers a valuable resource for researchers and practitioners alike.

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