Artificial Intelligence Rajiv Chopra

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IJCAI 1995

Proceedings of the Workshop on Context-Based Vision, June 19, 1995, Cambridge, Massachusetts 1995 Twelve papers from the June 1995 workshop, held in Cambridge, Mass. Topics include: context-based exploitation of aerial imagery, functional context in vision, and knowledge-based recognition of hand gestures. No index. Annotation copyright Book News, Inc. Portland, Or.

Software Testing Rajiv Chopra 2018-02-05 This overview of software testing provides key concepts, case studies, and numerous techniques to ensure software is reliable and secure. Using a self-teaching format, the book covers important topics such as black, white, and gray box testing, video game testing, test point analysis, automation, and levels of testing. Includes end-of-chapter multiple-choice questions / answers to increase mastering of the topics. Features: • Includes case studies, case tools, and software lab experiments • Covers important topics such as black, white, and gray box testing, test management, automation, levels of testing, • Covers video game testing • Self-teaching method includes numerous exercises, projects, and case studies

Personalized Machine Learning Julian McAuley 2022-01-31 Every day we interact with machine learning systems offering individualized predictions for our entertainment, social connections, purchases, or health. These involve several modalities of data, from sequences of clicks to text, images, and social interactions. This book introduces common principles and methods that underpin the design of personalized predictive models for a variety of settings and modalities. The book begins by revising 'traditional' machine learning models, focusing on adapting them to settings involving user data, then presents techniques based on advanced principles such as matrix factorization, deep learning, and generative modeling, and concludes with a detailed study of the consequences and risks of deploying personalized predictive systems. A series of case studies in domains ranging from e-commerce to health plus hands-on projects and code examples will give readers understanding and experience with large-scale real-world datasets and the ability to design models and systems for a wide range of applications.

Software Quality Assurance Rajiv Chopra 2018-04-09 This overview of software quality assurance testing in a "self-teaching" format contains easy-to- understand chapters with tips and insights about software quality, its basic concepts, applications, and practical case studies. It includes numerous, end-of-chapter questions with answers to test your knowledge and reinforce mastery of the concepts being presented. The book also includes state of the art material on the video-game testing process (Chapter 14) and a game-testing plan template (Chapter 15) and Game Testing by the Numbers (Chapter 16). Features: • Covers important topics such as black, white, and gray box testing, test management, automation, levels of testing, quality models, system and acceptance testing and more • Covers video game testing and effectiveness • Self-teaching method includes software lab experiments, numerous exercises (many with answers), projects, and case studies

Artificial Intelligence and TheFuture of Power Rajiv Malhotra 2021-01-10 A recurrent debate surrounding AI concerns the extent of human work that could be replaced by machines over the next twenty years when compared to new jobs created by AI. Numerous reports have addressed this issue, reaching a wide range of conclusions. Experts consider it a reasonable consensus that eventually a significant portion of blue- and white-collar jobs in most industries will become obsolete, or at least transformed, to such an extent that workers will need re-education to remain viable. This percentage of vulnerable jobs will continue to increase over time. The obsolescence will be far worse in developing countries where the standard of education is lower.

9789386173423 Rajiv Chopra This book attempts to provide a unified overview of the broad field of Machine Learning and its Practical implementation. This book is a survey of the state of art. It breaks this massive subject into comprehensible parts piece by piece. The objective is to focus on basic principles of machine learning with some leading edge topics. This book addresses a full spectrum of machine learning programming. The emphasis is to solve lot many programming examples using step-by step practical implementation of machine learning algorithms. To facilitate easy understanding of machine learning, this book has been written in such a simple style that a student thinks as if a teacher is sitting behind him and guiding him. This book is written as per the new syllabus of different Universities of India. It also Cover the syllabus of B.Tech.(CSE/IT), MCA, BCA of Delhi University, Delhi. GGSIPU, MDU, RGTU, Nagpur University, UTU, APJ Abdul Kalam University so on. The book is intended for both academic and professional audience.

Data Science and Analytics (with Python, R and SPSS Programming) V.K. Jain The Book has been written completely as per AICTE recommended syllabus on "Data Sciences". SALIENT FEATURES OF THE BOOK: Explains how data is collected, managed and stored for data science. With complete courseware for understand the key concepts in data science including their real-world applications and the toolkit used by data scientists. Implement data collection and management. Provided with state of the arts subjectwise. With all required tutorials on R, Python and Bokeh, Anaconda, IBM SPSS-21 and Matplotlib.

Artificial Intelligence for COVID-19 Diego Oliva 2021-07-19 This book presents a compilation of the most recent implementation of artificial intelligence methods for solving different problems generated by the COVID-19. The problems addressed came from different fields and not only from medicine. The information contained in the book explores different areas of machine and deep learning, advanced image processing, computational

intelligence, IoT, robotics and automation, optimization, mathematical modeling, neural networks, information technology, big data, data processing, data mining, and likewise. Moreover, the chapters include the theory and methodologies used to provide an overview of applying these tools to the useful contribution to help to face the emerging disaster. The book is primarily intended for researchers, decision makers, practitioners, and readers interested in these subject matters. The book is useful also as rich case studies and project proposals for postgraduate courses in those specializations.

Learning Deep Architectures for AI Yoshua Bengio 2009 Theoretical results suggest that in order to learn the kind of complicated functions that can represent high-level abstractions (e.g. in vision, language, and other AI-level tasks), one may need deep architectures. Deep architectures are composed of multiple levels of non-linear operations, such as in neural nets with many hidden layers or in complicated propositional formulae re-using many sub-formulae. Searching the parameter space of deep architectures is a difficult task, but learning algorithms such as those for Deep Belief Networks have recently been proposed to tackle this problem with notable success, beating the state-of-the-art in certain areas. This paper discusses the motivations and principles regarding learning algorithms for deep architectures, in particular those exploiting as building blocks unsupervised learning of single-layer models such as Restricted Boltzmann Machines, used to construct deeper models such as Deep Belief Networks.

You Look Like a Thing and I Love You Janelle Shane 2019-11-05 As heard on NPR's "Science Friday," discover the book recommended by Malcolm Gladwell, Susan Cain, Daniel Pink, and Adam Grant: an "accessible, informative, and hilarious" introduction to the weird and wonderful world of artificial intelligence (Ryan North). "You look like a thing and I love you" is one of the best pickup lines ever . . . according to an artificial intelligence trained by scientist Janelle Shane, creator of the popular blog AI Weirdness. She creates silly AIs that learn how to name paint colors, create the best recipes, and even flirt (badly) with humans—all to understand the technology that governs so much of our daily lives. We rely on AI every day for recommendations, for translations, and to put cat ears on our selfie videos. We also trust AI with matters of life and death, on the road and in our hospitals. But how smart is AI really... and how does it solve problems, understand humans, and even drive self-driving cars? Shane delivers the answers to every AI question you've ever asked, and some you definitely haven't. Like, how can a computer design the perfect sandwich? What does robot-generated Harry Potter fan-fiction look like? And is the world's best Halloween costume really "Vampire Hog Bride"? In this smart, often hilarious introduction to the most interesting science of our time, Shane shows how these programs learn, fail, and adapt—and how they reflect the best and worst of humanity. You Look Like a Thing and I Love You is the perfect book for anyone curious about what the robots in our lives are thinking. "I can't think of a better way to learn about artificial intelligence, and I've never had so much fun along the way." —Adam Grant, New York Times bestselling author of Originals

A Textbook of Artificial Intelligence for Class 10 Hema Dhingra 2020-04-01 Goyal Brothers Prakashan

RADIUS Oscar Firschein 1997-05 Technical reports prepared for the DARPA Image Understanding Program

Virtual & Augmented Reality For Dummies Paul Mealy 2018-06-08 An easy-to-understand primer on Virtual Reality and Augmented Reality Virtual Reality (VR) and Augmented Reality (AR) are driving the next technological revolution. If you want to get in on the action, this book helps you understand what these technologies are, their history, how they're being used, and how they'll affect consumers both personally and professionally in the very near future. With VR and AR poised to become mainstream within the next few years, an accessible book to bring users up to speed on the subject is sorely needed—and that's where this handy reference comes in! Rather than focusing on a specific piece of hardware (HTC Vive, Oculus Rift, iOS ARKit) or software (Unity, Unreal Engine), Virtual & Augmented Reality For Dummies offers a broad look at both VR and AR, giving you a bird's eye view of what you can expect as they continue to take the world by storm. * Keeps you up-to-date on the pulse of this fast-changing technology * Explores the many ways AR/VR are being used in fields such as healthcare, education, and entertainment * Includes interviews with designers, developers, and technologists currently working in the fields of VR and AR Perfect for both potential content creators and content consumers, this book will change the way you approach and contribute to these emerging technologies.

IJCAI-95 International Joint Conferences on Artificial Intelligence 1995

Integration of Natural Language and Vision Processing Paul Mc Kevitt 2012-12-06 Although there has been much progress in developing theories, models and systems in the areas of Natural Language Processing (NLP) and Vision Processing (VP) there has heretofore been little progress on integrating these subareas of Artificial Intelligence (AI). This book contains a set of edited papers addressing computational models and systems for the integration of NLP and VP. The papers focus on site descriptions such as that of the large Japanese $500 million Real World Computing (RWC) project, on historical philosophical issues, on systems which have been built and which integrate the processing of visual scenes together with language about them, and on spatial relations which appear to be the key to integration. The U.S.A., Japan and the EU are well reflected, showing up the fact that integration is a truly international issue. There is no doubt that all of this will be necessary for the InformationSuperHighways of the future.

Cyberspace Evon Abu-Taieh 2020-06-17 Parallel to the physical space in our world, there exists cyberspace. In the physical space, there are human and nature interactions that produce products and services. On the other hand, in cyberspace there are interactions between humans and computer that also produce products and services. Yet, the products and services in cyberspace don't materialize—they are electronic, they are millions of bits and bytes that are being transferred over cyberspace infrastructure.

Autonomous Horizons Greg Zacharias 2019-04-05 Dr. Greg Zacharias, former Chief Scientist of the United States Air Force (2015-18), explores next steps in autonomous systems (AS) development, fielding, and training. Rapid advances in AS development and artificial intelligence (AI) research will change how we think about machines, whether they are individual vehicle platforms or networked enterprises. The payoff will be considerable, affording the US military significant protection for aviators, greater effectiveness in employment, and unlimited opportunities for novel and disruptive concepts of operations. Autonomous

Horizons: The Way Forward identifies issues and makes recommendations for the Air Force to take full advantage of this transformational technology.

Database Management System (DBMS): A Practical Approach, 5th Edition Chopra Rajiv 2016 This comprehensive book, now in its Fifth Edition, continues to discuss the principles and concept of Database Management System (DBMS). It introduces the students to the different kinds of database management systems and explains in detail the implementation of DBMS. The book provides practical examples and case studies for better understanding of concepts and also incorporates the experiments to be performed in the DBMS lab. A competitive pedagogy includes Summary, MCQs, Conceptual Short Questions (with answers) and Exercise Questions.

Service Oriented, Holonic and Multi-agent Manufacturing Systems for Industry of the Future Theodor Borangiu 2019-08-02 This proceedings book presents selected peer-reviewed papers from the 9th International Workshop on 'Service Oriented, Holonic and Multi-agent Manufacturing Systems for the Industry of the Future' organized by Universitat Politècnica de València, Spain, and held on October 3–4, 2019. The SOHOMA 2019 Workshop aimed to foster innovation in the digital transformation of manufacturing and logistics by promoting new concepts and methods and solutions through service orientation in holonic and agent-based control with distributed intelligence. The book provides insights into the theme of the SOHOMA'19 Workshop – 'Smart anything everywhere – the vertical and horizontal manufacturing integration, ' addressing 'Industry of the Future' (IoF), a term used to describe the 4th industrial revolution initiated by a new generation of adaptive, fully connected, analytical and highly efficient robotized manufacturing systems. This global IoF model describes a new stage of manufacturing, that is fully automatized and uses advanced information, communication and control technologies such as industrial IoT, cyber-physical production systems, cloud manufacturing, resource virtualization, product intelligence, and digital twin, edge and fog computing. It presents the IoF interconnection of distributed manufacturing entities using a 'system-of-systems' approach, discussing new types of highly interconnected and self-organizing production resources in the entire value chain; and new types of intelligent decision-making support based on from real-time production data collected from resources, products and machine learning processing. This book is intended for researchers and engineers working in the manufacturing value chain, and specialists developing computer-based control and robotics solutions for the 'Industry of the Future'. It is also a valuable resource for master's and Ph.D. students in engineering sciences programs.

Intelligent Communication, Control and Devices Sushabhan Choudhury 2019-08-28 The book focuses on the integration of intelligent communication systems, control systems, and devices related to all aspects of engineering and sciences. It includes high-quality research papers from the 3rd international conference, ICICCD 2018, organized by the Department of Electronics, Instrumentation and Control Engineering at the University of Petroleum and Energy Studies, Dehradun on 21–22 December 2018. Covering a range of recent advances in intelligent communication, intelligent control and intelligent devices., the book presents original research and findings as well as researchers' and industrial practitioners' practical development experiences of.

A Textbook of Artificial Intelligence for Class 9 Hema Dhingra 2020-01-01 A Textbook of Artificial Intelligence for Class 9

Artificial Intelligence Rajiv Chopra 2012 For the students of B.E./B.Tech Computer Science Engineering and Information Technology (CSE/IT)

Operating System (A Practical App) Rajiv Chopra 2009-01-01 For the Students of B.E. / B.Tech., M.E. / M.Tech. & BCA / MCA It is indeed a matter of great encouragement to write the Third Edition of this book on ';Operating Systems - A Practical Approach' which covers the syllabi of B.Tech./B.E. (CSE/IT), M.Tech./M.E. (CSE/IT), BCA/MCA of many universities of India like Delhi University, GGSIPU Delhi, UPTU Lucknow, WBUT, RGPV, MDU, etc.

2019 Amity International Conference on Artificial Intelligence (AICAI). 2019

Deep Learning for Computer Architects Brandon Reagen 2017-08-22 This is a primer written for computer architects in the new and rapidly evolving field of deep learning. It reviews how machine learning has evolved since its inception in the 1960s and tracks the key developments leading up to the emergence of the powerful deep learning techniques that emerged in the last decade. Machine learning, and specifically deep learning, has been hugely disruptive in many fields of computer science. The success of deep learning techniques in solving notoriously difficult classification and regression problems has resulted in their rapid adoption in solving real-world problems. The emergence of deep learning is widely attributed to a virtuous cycle whereby fundamental advancements in training deeper models were enabled by the availability of massive datasets and high-performance computer hardware. It also reviews representative workloads, including the most commonly used datasets and seminal networks across a variety of domains. In addition to discussing the workloads themselves, it also details the most popular deep learning tools and show how aspiring practitioners can use the tools with the workloads to characterize and optimize DNNs. The remainder of the book is dedicated to the design and optimization of hardware and architectures for machine learning. As high-performance hardware was so instrumental in the success of machine learning becoming a practical solution, this chapter recounts a variety of optimizations proposed recently to further improve future designs. Finally, it presents a review of recent research published in the area as well as a taxonomy to help readers understand how various contributions fall in context.

Soft Computing: Theories and Applications Millie Pant 2020-02-24 The book focuses on soft computing and its applications to solve real-world problems in different domains, ranging from medicine and health care, to supply chain management, image processing and cryptanalysis. It includes high-quality papers presented at the International Conference on Soft Computing: Theories and Applications (SoCTA 2018), organized by Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab, India. Offering significant insights into soft computing for teachers and researchers alike, the book inspires more researchers to work in the field of soft computing.

Database Management System (DBMS)A Practical Approach Rajiv Chopra 2010-01-01 Many books on Database Management Systems (DBMS) are available in the market, they are incomplete very formal and dry. My attempt is to make DBMS very simple so that a student feels as if the teacher is sitting behind him and guiding him. This text is bolstered with many examples and Case Studies. In this book, the experiments are also included which are to be performed in DBMS lab. Every effort has been made to alleviate the treatment of the book for easy flow of understanding of the students as well as the professors alike. This textbook of DBMS for all graduate and post-graduate programmes of Delhi University, GGSIPU, Rajiv Gandhi Technical University, UPTU, WBTU, BPUT, PTU and so on. The salient features of this book are: - 1. Multiple Choice Questions 2. Conceptual Short Questions 3. Important Points are highlighted / Bold faced. 4. Very lucid and simplified approach 5.Bolstered with numerous examples and CASE Studies 6. Experiments based on SQL incorporated. 7. DBMS Projects added Question Papers of various universities are also included.

Data Analytics and Management Ashish Khanna 2021-01-04 This book includes original unpublished contributions presented at the International Conference on Data Analytics and Management (ICDAM 2020), held at Jan Wyzykowski University, Poland, during June 2020. The book covers the topics in data analytics, data management, big data, computational intelligence, and communication networks. The book presents innovative work by leading academics, researchers, and experts from industry which is useful for young researchers and students.

Fluid Ashish Jaiswal 2021-12-18 "Be more than what you are taught to be."

Applications of Advanced Computing in Systems Rajesh Kumar 2021-04-24 This book covers advances in system, control and computing. This book gathers selected high-quality research papers presented at the International Conference on Advances in Systems, Control and Computing (AISCC 2020), held at MNIT Jaipur during February 27–28, 2020. The first part is advances in systems and it is dedicated to applications of the artificial neural networks, evolutionary computation, swarm intelligence, artificial immune systems, fuzzy system, autonomous and multi-agent systems, machine learning, other intelligent systems and related areas. In the second part, machine learning and other intelligent algorithms for design of control/control analysis are covered. The last part covers advancements, modifications, improvements and applications of intelligent algorithms.

Deep Learning Rajiv Chopra A good book is like a teacher who sits behind the reader and guides him/her accordingly. Deep Learning has been an area of current research.After toiling through the various concepts of Deep Learning, the book slithers around all principles of deep learning. This book highlights in deep the concepts of deep learning so that new projects and researchers can be done.The book serves, both as textbook and as a reference book .Some of the highlights of the book are: Simple Language, Recent Concepts of Machine and Deep Learning explained, MCQ's, Conceptual Short Questions & Answers, Case Studies, Case Tools (like TensorFlow, H2O etc).

Metahuman Deepak Chopra, M.D. 2019-10-01 Is it possible to venture beyond daily living and experience

heightened states of awareness? Deepak Chopra says that higher consciousness is available here and now. “Metahuman helps us harvest peak experiences so we can see our truth and mold the universe’s chaos into a form that brings light to the world.”—Dr. Mehmet Oz, attending physician, New York–Presbyterian, Columbia University New York Times bestselling author Deepak Chopra unlocks the secrets to moving beyond our present limitations to access a field of infinite possibilities. How does one do this? By becoming metahuman. To be metahuman, however, isn’t science fiction and is certainly not about being a superhero. To be metahuman means to move past the limitation constructed by the mind and enter a new state of awareness where we have deliberate and concrete access to peak experiences that can transform people’s lives from the inside out. Humans do this naturally—to a point. For centuries the great artists, scientists, writers, and many so-called ordinary people have gone beyond the everyday physical world. But if we could channel these often bewildering experiences, what would happen? Chopra argues we would wake up to experiences that would blow open your body, mind, and soul. Metahuman invites the reader to walk the path here and now. Waking up, we learn, isn’t just about mindfulness or meditation. Waking up, to become metahuman, is to expand our consciousness in all that we think, say, and do. By going beyond, we liberate ourselves from old conditioning and all the mental constructs that underlie anxiety, tension, and ego-driven demands. Waking up allows life to make sense as never before. To make this as practical as possible, Chopra ends the book with a 31-day guide to becoming metahuman. Once you wake up, he writes, life becomes transformed, because pure consciousness—which is the field of all possibilities—dawns in your life. Only then does your infinite potential become your personal reality.

Advanced Computer Architecture Rajiv Chopra 2008 This book covers the syllabus of GGSIPU, DU, UPTU, PTU, MDU, Pune University and many other universities. It is useful for B.Tech(CSE/IT), M.Tech(CSE), MCA(SE) students. Many solved problems have been added to make this book more fresh. It has been divided in three parts :Parallel Algorithms, Parallel Programming and Super Computers.

DESIGN METHODS AND ANALYSIS OF ALGORITHMS S. K. BASU 2013-04-17 The design of correct and efficient algorithms for problem solving lies at the heart of computer science. This concise text, without being highly specialized, teaches the skills needed to master the essentials of this subject. With clear explanations and engaging writing style, the book places increased emphasis on algorithm design techniques rather than programming in order to develop in the reader the problem-solving skills. The treatment throughout the book is primarily tailored to the curriculum needs of B.Tech. students in computer science and engineering, B.Sc. (Hons.) and M.Sc. students in computer science, and MCA students. The book focuses on the standard algorithm design methods and the concepts are illustrated through representative examples to offer a reader-friendly text. Elementary analysis of time complexities is provided for each example-algorithm. A varied collection of exercises at the end of each chapter serves to reinforce the principles/methods involved. New To This Edition • Additional problems • A new Chapter 14 on Bioinformatics Algorithms • The following new sections: » BSP model (Chapter 0) » Some examples of average complexity calculation (Chapter 1) » Amortization (Chapter 1) » Some more data structures (Chapter 1) » Polynomial multiplication (Chapter 2) » Better-fit heuristic (Chapter 7) » Graph matching (Chapter 9) » Function optimization, neighbourhood annealing and implicit elitism (Chapter 12) • Additional matter in Chapter 15 • Appendix

WEB ENGINEERING CHOPRA, RAJIV 2016-06-16 Written in an easy-to-grasp language, the book brings to light the various topics pertaining to Web engineering at one place in a comprehensive manner. The text, organized in eleven chapters, enables its readers to analyze, model, design, code, test and maintain their Web sites. Through its systematic presentation of topics, i.e., from basic level to advanced level, the book apprises the readers with the finer points of the various phases of Web development life cycle like Web analysis, Web design, Web coding (Web technologies), Web testing and Web maintenance. The book is adaptive enough for practical implementation of the concepts, thereby allowing its readers to avoid or overcome hacking, to master client-side and server-side programming and to develop good-quality Web applications. Using explicit descriptions and scripting languages like VBScript, JavaScript and much more, this book is a must-have book for all those who are associated with the field of Web engineering.

Artificial Intelligence Ela Kumar 2013-12-30 AI is an emerging discipline of computer science. It deals with the concepts and methodologies required for computer to perform an intelligent activity. The spectrum of computer science is very wide and it enables the computer to handle almost every activity, which human beings could. It deals with defining the basic problem from viewpoint of solving it through computer, finding out the total possibilities of solution, representing the problem from computational orientation, selecting data structures, finding the solution through searching the goal in search space dealing the real world uncertain situations etc. It also develops the techniques for learning and understanding, which make the computer able to exhibit an intelligent behavior. The list is exhaustive and is applied now a days in almost every field of technology. This book presents almost all the components of AI like problem solving, search techniques, knowledge concepts, expert system and many more in a very simple language. One of the unique features of this book is inclusion of number of solved examples; in between the chapters and also at the end of many chapters. Real life examples have been discussed to make the reader conversant with the intricate phenomenon of computer science in general, and artificial intelligence in particular. The book is primarily developed for undergraduate and postgraduate engineering students.

Advances in Artificial Intelligence, Software and Systems Engineering Tareq Ahram 2020-07-03 This book addresses emerging issues concerning the integration of artificial intelligence systems in our daily lives. It focuses on the cognitive, visual, social and analytical aspects of computing and intelligent technologies, and highlights ways to improve the acceptance, effectiveness, and efficiency of said technologies. Topics such as responsibility, integration and training are discussed throughout. The book also reports on the latest advances in systems engineering, with a focus on societal challenges and next-generation systems and applications for meeting them. Based on the AHFE 2020 Virtual Conference on Software and Systems Engineering, and the AHFE 2020 Virtual Conference on Artificial Intelligence and Social Computing, held on July 16–20, 2020, it provides readers with extensive information on current research and future challenges in these fields, together with practical insights into the development of innovative services for various purposes.

Advances in Data Sciences, Security and Applications Vanita Jain 2019-12-02 This book gathers the best papers presented at the International Conference on Data Sciences, Security and Applications (ICDSSA 2019), organized by Bharati Vidyapeeth's College of Engineering, New Delhi, India, on 7–8 March 2019. The

respective contributions present original research work, essential information, techniques and applications in the fields of data mining, artificial intelligence and computational intelligence. They also discuss machine learning in business intelligence and big data analytics, soft computing, security, cloud computing and the latest trends.

A Classical Approach to Artificial Intelligence Munesh Chandra Trivedi 2014 There are many books available in the market on the proposed topic but none of them can be termed as comprehensive. Besides, students face many problems in understanding the language of this books. Keeping these points in mind, Artificial Intelligence was prepared, which should be simple enough to comprehend and comprehensive enough to encompass all the topics of different institutions and universities.