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Intro

A patient with S.T. segment elevation Myocardial Infarction has ongoing chest discomfort. Fibrinolytic therapy has been ordered. Heparin 4000 units I.V. bolus was administered, and a heparin infusion of 1000 units per hour is being administered. Aspirin was not taken by the patient because he had a history of gastritis treated 5 years ago. Your next action is to

A patient has sinus bradycardia with a heart rate of 36 beats per minute. Atropine has been administered to a total of 3 milligrams. A transcutaneous pacemaker has failed to capture. The patient is confused, and her systolic blood pressure is 110. Which of the following is now indicated?

A 62-year-old man suddenly experienced difficulty speaking and left-side weakness. He was brought to the emergency department. He meets initial criteria for fibrinolytic therapy, and a C.T. scan of the brain is ordered. What are the guidelines for antiplatelet and fibrinolytic therapy?

A patient with a possible S.T. segment elevation Myocardial Infarction has ongoing chest discomfort. Which of the following would be a contraindication to the administration of nitrates?

A patient is in cardiac arrest. Ventricular fibrillation has been refractory to a second shock. Of the following, which drug and dose should be administered first?

A 35-year-old woman has palpitations, light-headedness, and a stable tachycardia. The monitor shows a regular narrow- complex tachycardia at a rate of 180 per minute. Vagal maneuvers have not been effective in terminating the rhythm. An I.V. has been established. What drug should be administered?

A patient with sinus bradycardia and heart rate of 42 has diaphoresis and a systolic blood pressure of 80. What is the initial dose of atropine based on the currect A.C.L.S. guidelines?

A patient is in refractory ventricular fibrillation and has received multiple appropriate defibrillation shocks, epinephrine 1 milligram I.V. twice, and an initial dose of 300 milligram amiodarone L.V. The patient is intubated. A second dose of amiodarone is now called for. The recommended second dose

A patient with a possible acute coronary syndrome has ongoing chest discomfort unresponsive to 3 sublingual nitroglycerin tablets. There are no contraindications, and 4 milligrams of morphine sulfate was administered. Shortly afterward, the systolic blood pressure falls to 88, and the patient has increased chest discomfort. You should

A patient has a rapid irregular wide-complex tachycardia. The ventricular rate is 138 per minute. The patient is asymptomatic with a systolic blood pressure of 110. He has a history of angina. Which of the following actions is recommended?

You arrive on the scene with the code team. High- quality C.P.R. is in progress. An A.E.D. has previously advised "no shock indicated." A rhythm check now finds asystole. After resuming high-quality compressions, your next action is to

A patient is in pulseless ventricular tachycardia. Two shocks and 1 dose of epinephrine have been given. Which is the next drug/dose to anticipate

Your patient has been intubated. Intravenous access has been unsuccessfully attempted twice. Which of the following is. also an acceptable route for drug administration during a code?

A patient is in cardiac arrest. Ventricular fibrillation has been refractory to an initial shock. What is the recommended route for drug administration during CPR?

A patient is in refractory ventricular fibrillation. High-quality CPR is in progress, and shocks have been given. One dose of epinephrine was given after the second shock. An antiarrhythmic drug was given immediately after the third shock. What drug should the team leader request to be prepared for administration next?

A 57-year-old woman has palpitations, chest discomfort, and tachycardia. The monitor shows a regular wide-complex tachycardia at a rate of 180 beats per minute. She becomes diaphoretic, and her blood pressure is 80 over 60. The next action is to

A patient is in cardiac arrest. High-quality chest compressions are being given. The patient is intubated and an I.V. has been started. The rhythm is asystole. Which is the first drug/dose to administer?

A 45-year-old woman with a history of palpitations develops light-headedness and palpitations. She has received adenosine 6 milligrams for the rhythm shown above without conversion of the rhythm. She is now extremely apprehensive. Her Blood pressure is 108 over 70. What is the next appropriate intervention?

#22: A patient in the emergency department develops recurrent chest discomfort suspicious for ischemia. Oxygen is being administered via a nasal device at 4 Liters per minute, and an I.V. line is in place. The systolic blood pressure is 160. There are no allergies or contraindications to any medication. You would first order

Following initiation of CPR and 1 shock, Ventricular fibrillation persists. A second shock is given and chest compressions are resumed immediately. An I.V. is in place and no drugs have been given. Bag-mask ventilations are producing visible chest rise. What is your next order?

You arrive on the scene to find a 56-year-old diabetic woman with dizziness. She is pale and diaphoretic. Her systolic blood pressure is 80. The cardiac monitor shows a brady arrythmia. The Client is receiving oxygen at 4 Liters per minute and an I.V. has been established. Your next order is AHA Pediatric Advanced Life Support (PALS) Practice Test with Answers - AHA Pediatric Advanced Life Support (PALS) Practice Test with Answers by Florida Training Academy 25,515 views Streamed 8 months ago 28 minutes - Test your knowledge with our **free**, PALS Practice Test. The practice exam consists of 25 multiple-choice questions that **are**, derived ...

You are called to help resuscitate an infant with severe symptomatic bradycardia associated with respiratory distress. The bradycardia persists despite establishment of an effective airway, oxygenation, and ventilation. There is no heart block present. Which of the following is the first drug you should administer?

General assessment of a 2-year-old female reveals her to be alert with mild breathing difficulty during inspiration. On primary assessment, she makes high-pitched inspiratory sounds (mild stridor) when agitated. Her oxygen level is 92% on room air. Lung auscultation reveals transmitted upper airway sounds with adequate distal breath sounds bilaterally. Which of the following is the most appropriate initial therapy intervention for this child?

You enter a room to perform a general assessment of a previously stable 10-year-old male and find him unresponsive and apneic. A code is called and bag-mask ventilation is performed with 100% oxygen. The cardiac monitor shows a wide-complex tachycardia. The boy has no detectable pulses. You deliver an unsynchronized shock with 2 Joules per kilogram and resume immediate CPR beginning with compressions. A team member had established 1.0. access, so you give a dose of epinephrine. At the next rhythm check, persistent Ventricular Fibrillation is present. You administer a 4 Joules per kilogram shock and resume CPR. Based on the PALS Pulseless Arrest Algorithm, what is the next drug to administer when CPR is restarted?

Parents of a 1-year-old female phoned the Emergency Response System when they picked up their daughter from the baby-sitter. Paramedics perform a general assessment revealing an obtunded infant with irregular breathing, bruises over the abdomen, abdominal distention, and cyanosis. Assisted bag-mask ventilation with 100% oxygen is initiated. The heart rate is 36 per minute, peripheral pulses cannot be palpated, and central pulses are barely palpable. Chest compressions are started with a 15.2 compression-to-ventilation ratio. In the emergency department the infant is intubated and ventilated with 100% oxygen, and LV. access is established. The heart rate is now up to 150 beats minute but there are weak central pulses and no distal pulses. Systolic blood pressure is 74. Of the following, which would be most useful in management of this infant?

An infant with a history of vomiting and diarrhea arrives by ambulance. During your primary assessment the infant responds only to painful stimulation. The upper airway is patent, the respiratory rate is 40 with good bilateral breath sounds, and 100% oxygen is being administered. The infant has cool extremities, weak pulses, and a capillary refill time of more than 5 seconds. The infant's systolic blood pressure is 85, and bedside glucose level is 30. Which of the following is the most appropriate treatment to provide for this infant?

General assessment of a 9-year-old male with increased work of breathing. reveals the boy to be agitated and leaning forward on the bed with obvious respiratory distress. You administer 100% oxygen by nonrebreathing mask. The patient is speaking in short phrases and tells you that he has asthma but does not carry an inhaler. He has nasal flaring, severe suprasternal and intercostal retractions, and decreased air movement with prolonged expiratory time and wheezing. His oxygen level is 92% on a nonrebreathing mask. What is the next medical therapy to provide to this patient?

An 8-month-old male is brought to the emergency department for evaluation of severe diarrhea and dehydration. In the E.D. the child becomes unresponsive and pulseless. You shout for help and start CPR at a compression rate of 100 per minute and a compression-to-ventilation ratio of 30:2. Another provider arrives, at which point you switch to 2. rescuer CPR with a compression-to-ventilation ratio of 15:2. The cardiac monitor shows Ventricular Fibrillation.

Ceneral assessment of a 10-month-old male in the emergency department reveals a lethargic pale infant with slow respirations. You begin assisted ventilation with a bag-mask device using 100% oxygen. On primary assessment heart rate is 38, central pulses are weak but distal pulses cannot be palpated, systolic blood pressure is 60, and capillary refill is 4 seconds. During your assessment a colleague places the child on a cardiac monitor, and you observe a bradycardic rhythm. The rhythm remains unchanged despite ventilation with 100% oxygen. What are your next management steps?

A 3-year-old unresponsive, apneic child is brought to the emergency department. Emergency personnel report that the child became unresponsive as they arrived at the hospital. The child is receiving CPR, including bag-mask ventilation with 100% oxygen and chest compressions at a rate of 100 per minute. Compressions and ventilations are being coordinated at a ratio of 152. You confirm that apnea is present and that ventilation is producing bilateral breath sounds and chest expansion while a colleague confirms absent pulses. Cardiac monitor shows Ventricular Tachycardia.

General assessment of a 10-year-old male shows him to be unresponsive. You shout for help, check breathing, find he is apneic, and give 2 breaths. After finding that he is pulseless, you begin cycles of compressions and ventilations with a compression rate of 100 per minute and compression-to-ventilation ratio of 30:2. A colleague arrives and places the child on a cardiac monitor, revealing Ventricular Fibrillation.

A child becomes unresponsive in the emergency department and is not breathing. You provide ventilation with 100% oxygen. You are uncertain if a faint pulse is present. What is your next action?

You are preparing to use a manual defibrillator and paddles in the pediatric setting. When would it be most appropriate to use the smaller "pediatric" sized paddles for shock delivery?

A 7-year-old boy is found unresponsive, apneic, and pulseless. CPR is ongoing. The child is intubated and vascular access is established. The heart monitor reveals an organized rhythm, but a pulse check reveals no palpable pulses. Effective ventilations and compressions are resumed, and an initial I.V. dose of epinephrine is administered. Which of the following therapies should you perform next?

You are evaluating an irritable 6-year-old girl with mottled color. On primary assessment she is febrile with a temperature of 40 degrees Celsius or 104 degrees Farenheight. Her extremities are cold with a capillary refill of 5 seconds. Distal pulses are absent and central pulses are weak. Heart rate is 180 per minute, respiratory rate is 45 breaths per minute, and a systolic blood pressure is 98. Which of the following most accurately describes the categorization of this child's condition using the terminology taught in the PALS Provider Course?

An 18-month-old child presents with a 1-week history of cough and runny nose. You perform a general assessment, which reveals a toddler responsive only to painful stimulation with slow respirations and diffuse cyanosis. You begin a primary assessment and find that the child's respiratory rate has fallen from 65 breaths per minute to 10. Severe inspiratory intercostal retractions are present. The heart rate is 160, oxygen level is 65% on room air, and the capillary refill is less than 2 seconds. Which of the following is the most appropriate immediate treatment for this toddler?

You are supervising another healthcare provider who is inserting an intraosseous needle into an infant's tibia. Which of the following signs should you tell the provider is the best indication of successful insertion of a needle into the bone marrow cavity?

#24: A pale and obtunded 3-year-old child with a history of diarrhea is brought to the hospital. Primary assessment reveals a respiratory rate of 45 breaths per minute with good breath sounds bilaterally. Heart rate is 150 beats per minute, systolic blood pressure is 90, and the oxygen level is 92% in room air. Capillary refill is 5 seconds and peripheral pulses are weak. After placing the child on a nonrebreathing face mask with 100% oxygen and obtaining vascular access, which of the following is the most appropriate immediate treatment for this child?

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Artificial Intelligence

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Artificial Intelligence

This book constitutes the refereed proceedings of the 5th International Conference of the CLEF Initiative, CLEF 2014, held in Sheffield, UK, in September 2014. The 11 full papers and 5 short papers presented were carefully reviewed and selected from 30 submissions. They cover a broad range of issues in the fields of multilingual and multimodal information access evaluation, also included are a set of labs and workshops designed to test different aspects of mono and cross-language information retrieval systems

Artificial Intelligence 3E (Sie)

Edited in collaboration with FoLLI, the Association of Logic, Language and Information this book constitutes the refereed proceedings of the 28th Workshop on Logic, Language, Information and Computation, WoLLIC 2022, Iasi, Romania, in September 2022. The 25 full papers presented included with 8 extra abstracts, 5 invited talks and 3 tutorials were fully reviewed and selected from 46 submissions. The conference aims fostering interdisciplinary research in pure and applied logic.

Inteligência artificial

Fundamentals of Machine Learning discusses the basics of python, use of python in computing and provides a general outlook on machine learning. This book provides an insight into concepts such as linear regression with one variable, linear algebra, and linear regression with multiple inputs. The classification with logistics regression model, regularization, neural networks, decision trees are explained in this book. The introduction to several concepts of machine learning such as component analysis, classification using k-Nearest Algorithm, k Means Clustering, computing with Tensor flow and natural language processing have been explained. This book explains the fundamental concepts of machine learning.

Inteligência artificial

Welcome to the world of artificial intelligence AI From robot cooks to media news bots AI is changing the way we get work done. Now you can discover how AI works where it is used in a variety of industries and what we can expect from this remarkable technology in the future.

Logic, Language, Information, and Computation

"Exposes the vast gap between the actual science underlying AI and the dramatic claims being made for it." —John Horgan "If you want to know about AI, read this book...It shows how a supposedly futuristic reverence for Artificial Intelligence retards progress when it denigrates our most irreplaceable resource for any future progress: our own human intelligence." —Peter Thiel Ever since Alan Turing, AI enthusiasts have equated artificial intelligence with human intelligence. A computer scientist working at the forefront of natural language processing, Erik Larson takes us on a tour of the landscape of

AI to reveal why this is a profound mistake. AI works on inductive reasoning, crunching data sets to predict outcomes. But humans don't correlate data sets. We make conjectures, informed by context and experience. And we haven't a clue how to program that kind of intuitive reasoning, which lies at the heart of common sense. Futurists insist AI will soon eclipse the capacities of the most gifted mind, but Larson shows how far we are from superintelligence—and what it would take to get there. "Larson worries that we're making two mistakes at once, defining human intelligence down while overestimating what AI is likely to achieve...Another concern is learned passivity: our tendency to assume that AI will solve problems and our failure, as a result, to cultivate human ingenuity." —David A. Shaywitz, Wall Street Journal "A convincing case that artificial general intelligence—machine-based intelligence that matches our own—is beyond the capacity of algorithmic machine learning because there is a mismatch between how humans and machines know what they know." —Sue Halpern, New York Review of Books

Information Access Evaluation -- Multilinguality, Multimodality, and Interaction

The philosopher Spinoza once asserted that no one knows what a body can do, conceiving an intrinsic bodily power with unknown limits. Similarly, we can ask ourselves about Artificial Intelligence (AI): To what extent is the development of intelligence limited by its technical and material substrate? In other words, what can AI do? The answer is analogous to Spinoza's: Nobody knows the limit of AI. Critically considering this issue from philosophical, interdisciplinary, and engineering perspectives, respectively, this book assesses the scope and pertinence of AI technology and explores how it could bring about both a better and more unpredictable future. What AI Can Do highlights, at both the theoretical and practical levels, the cross-cutting relevance that AI is having on society, appealing to students of engineering, computer science, and philosophy, as well as all who hold a practical interest in the technology.

The Gradual Encroachment of Artificial Intelligence

In Japan there are robots that guide customers through marketplaces advising them where to find the product matching their needs, and realistic replicas of university professors allow them to teach their lectures a hundred kilometers away from the classroom. Not to speak about intelligent prostheses and remote high-precision surgery.

Logic, Language, Information, and Computation

A reckoning. A rebellion. The worlds of artificial intelligence and ancient magic collide. Crystal City glistens with diamonds, but its dazzling beauty comes at a deadly price. The capital of Khalendar thrives on a steady supply of gemstones from the neighboring Barrens, a colony of the Empire. Walter Saltanetska translates AI code for the Khalendar government, helping to breathe life into the ambitious vision of the AI Masters. When Walter discovers a terrible secret which could destroy the life of his lover, Elaine, he decides to tell her despite strict orders to keep what he translates confidential. What begins as a catastrophe eventually grows into a rebellion. Elaine is taken captive by the AI Masters, and Walter must do everything in his power to rescue her. He starts his quest with a single goal in mind, finding Elaine, but along the way Walter discovers that saving her is only a small part of his destiny. During his travels, he encouters a long-lost relative, a warrior matriarch, and a mystical kingdom forgotten to time. Yet Walter's true journey occurs not in physical space, but the captivating depths of his mind. An inventive blend of dystopian science-fiction and fantasy, the Jade Rebellion explores whether we can overcome technical determinism by preserving history, nature, spirituality, and ultimately, our humanity.

Fundamentos de tecnología documental

This book constitutes the refereed proceedings of the 12th Conference of the Spanish Association for Artificial Intelligence, CAEPIA 2007, held in Salamanca, Spain, in November 2007, in conjunction with the 7th Workshop on Artificial Intelligence Technology Transfer, TTIA 2007. The 28 revised full papers presented were carefully selected during two rounds of reviewing and improvement from 134 submissions. The papers address all current issues of artificial intelligence ranging from methodological and foundational aspects to advanced applications in various fields.

Fundamentals of Machine Learning Using Python

Since it was formed in 1994, the Catalan Association for Artificial Intelligence (ACIA) has been promoting cooperation between researchers in artificial intelligence within the Catalan speaking community.

The association now holds an annual conference in the Catalan region, which aims to foster discussion of the latest developments in artificial intelligence within the community of Catalan countries, as well as amongst members of the wider AI community. This book presents the proceedings of the 18th International Conference (CCIA 2015), held in Valencia, Spain, in October 2015. It contains full versions of the peer reviewed papers presented at the conference, as well as shorter poster contributions. In addition to this year's dominant research trends of classification, decision support systems and data mining, many other topics are covered, ranging from theoretical aspects to descriptions of real applications. This overview of current work in the Catalan artificial intelligence community and of the collaboration between ACIA members and the AI community worldwide will be of interest to all those working in the field of artificial intelligence.

Artificial Intelligence and Work

This book constitutes the thoroughly refered post-proceedings of the 11th Conference of the Spanish Association for Artificial Intelligence, CAEPIA 2005, held in Santiago de Compostela, Spain in November 2005. The 48 revised full papers presented together with an invited paper were carefully selected. The papers span the entire spectrum of artificial intelligence from foundational and theoretical issues to advanced applications in various fields.

The Myth of Artificial Intelligence

Artificial Intelligence (AI) is widely known as a knowledge field that aims to make computers, robots, or products that mimic the way humans think. In the current scientific community, AI is an intensively studied area composed of multiple branches. Historically, machine learning and optimization are two of the most studied fronts thanks to the development of novel and challenging research topics such as transfer optimization, swarm robotics, and drift detection and adaptation to evolving conditions in real-time. This book collects radically new theoretical insights, reporting recent developments and evincing innovative applications regarding AI methods in all fields of knowledge. It also presents works focused on new paradigms and novel branches of AI science.

What AI Can Do

With the idea of "deep learning" having now become the key to this new generation of solutions, major technological players in the business intelligence sector have taken an interest in the application of Big Data. In this book, the author explores the recent technological advances associated with digitized data flows, which have recently opened up new horizons for AI. The reader will gain insight into some of the areas of application of Big Data in AI, including robotics, home automation, health, security, image recognition and natural language processing.

Artificial Intelligence Research and Development

"This book is a comprehensive and in-depth reference to the most recent developments in the field covering theoretical developments, techniques, technologies, among others"--Provided by publisher.

The Jade Rebellion

Artificial Intelligence is one of the most fascinating and unusual areas of academic study to have emerged this century. For some, AI is a true scientific discipline, that has made important and fundamental contributions to the use of computation for our understanding of nature and phenomena of the human mind; for others, AI is the black art of computer science. Artificial Intelligence Today provides a showcase for the field of AI as it stands today. The editors invited contributions both from traditional subfields of AI, such as theorem proving, as well as from subfields that have emerged more recently, such as agents, AI and the Internet, or synthetic actors. The papers themselves are a mixture of more specialized research papers and authorative survey papers. The secondary purpose of this book is to celebrate Springer-Verlag's Lecture Notes in Artificial Intelligence series.

Current Topics in Artificial Intelligence

Artificial Intelligence (AI) is a scientific field of longstanding tradition, with origins in the early years of computer science. Today AI has reached a level of maturity that allows us to build highly sophisticated systems which perform very different tasks. Nevertheless, its evolution has opened up a number of new problems, ranging from specific algorithms to system integration, which remain elusive and assure a

long life for this research field. Research progress in this area is today an international challenge that must be supported by world-class meetings and organizations, but in spite of this fact, there is also an objective need for meetings and organizations that support and disseminate research at other levels. This book focuses on new and original research on Artificial Intelligence.

Artificial Intelligence Research and Development

For almost twenty years the Catalan Association of Artificial Intelligence (ACIA) has been promoting cooperation between researchers in artificial intelligence within the Catalan speaking community. This book presents the proceedings of the 16th International Conference (CCIA 2013), held at the University of Vic (UVIC), Catalonia, Spain, in October 2013. This annual conference aims to foster discussion of the latest developments in artificial intelligence within the community of Catalan countries, as well as amongst members of the AI community worldwide. The book contains the 26 full papers, 5 short papers and 12 poster presentations from the conference, which are grouped under the following topics: relational learning, planning; satisfiability and constraints; perception and image processing; preprocessing; patterns extraction and learning; post-processing, model interpretability and decision support; recommenders, similarity and CBR; and multiagent systems.

Current Topics in Artificial Intelligence

In The Risk Perception of Artificial Intelligence, Hugo Neri examines how society has come to understand artificial intelligence by studying how cultural productions, intellectuals, and the media have shaped society's views, understandings, and fears of artificial intelligence. As an abstract term, artificial intelligence has been understood both as a discipline and a "robot's mind." In the twenty and twenty-first centuries, cultural representations in comics, television shows, and movies converged with public lectures about the risks of A.I. by prominent public figures such as Stephen Hawking and Elon Musk. Neri analyzes how this cultural and intellectual miscellany shapes the way we perceive artificial intelligence and whether this perception is universal or restricted to the Western world.

Artificial Intelligence

The field covered by Artificial Intelligence (AI) is multiform and gathers subjects as various as the engineering of knowledge, the automatic treatment of the language, the training and the systems multiagents, and more. This book focuses on subjects including Machine Learning, Reasoning, Neural Networks, Computer Vision, and Multiagent Systems.

Artificial Intelligence and Big Data

Machine learning algorithms and artificial intelligence influence many aspects of life today. This report identifies some of their shortcomings and associated policy risks and examines some approaches for combating these problems.

Encyclopedia of Artificial Intelligence

Posthumanism portrays technology as an 'other' to be embraced, and consequently has lost sight of the basic realities of human/technological boundary. Technology becomes a superior model of information processing to which humans aspire. Posthuman Suffering contends that we do not embrace technology to expand and augment our selves, we embrace technology so that it may embrace us. Finally and most importantly, the posthuman view reconceptualizes the human being to be made more compatible with computerized systems or possible artificial intelligences. In the age of technology our own limitations are legitimized as unique to the human condition. Through those limitations, we can distinguish ourselves from our machines, making us superior to them via our own imperfection. Posthumanist discourse from scholars such as N. Katherine Hayles, Donna Haraway, and others, often fails to address the underlying meaning behind our technological aspirations, and actually perpetuates the belief that properly embracing technology allows us to overcome the very need to technology itself; if we possess the right apparatus to take in the world and the code which instantiates it, then the world will give us everything it has to offer. In so doing, we sacrifice the objective of experiencing the world for the object through which it should be experienced. By revealing the theoretical and historical foundations of posthumanism through the work of Elaine Scarry, Freud, Heidegger, and Lyotard; and tracing narrative representations of failed posthuman ontologies in Thomas Pynchon's The Crying of Lot 49, Don DeLillo's White Noise and Steven Spielberg's film, AI: Artificial Intelligence, Posthuman

Suffering and the Technological Embrace re-frames the core assumptions of posthumanism in terms of psychological trauma and the physicality of the human/technological interface itself.

Artificial Intelligence Today

One hundred years after the birth of Alan Turing, the great pioneer of computer science, artificial intelligence has become so much a part of everyday life that it is hard to imagine the world without it. This book contains papers from the 15th International Conference of the Catalan Association of Artificial Intelligence (CCIA 2012), held at the Universitat d'Alicant, Spain, in October 2012. Since 1994 the Catalan Association of Artificial Intelligence (ACIA) has fostered cooperation between researchers in artificial intelligence within the Catalan speaking community. The annual CCIA is its international conference, a platform where not only researchers from Catalan speaking countries, but also those working in artificial intelligence worldwide, have found a place to show, discuss and publish the results of their researches and developments. The 23 papers presented here, which include contributions from the AI community all over the world, cover topics such as KDD, DM and machine learning; natural language processing and recommenders; computer vision; robotics; AI for optimization problems and AI applications in the real world. The book also includes the contributions of the two invited keynote speakers at the conference - Oscar Cordón and Eduardo Nebot - which respectively address the subjects of real-world applications of soft artificial intelligence, and challenges of automation and safety in field robotics.

Recent Advances in Artificial Intelligence Research and Development

Presenting a ground-breaking view of technology trends and their impact on our society, Artificial Era contributes to the current debate about the consequences of technological innovations. Alongside different viewpoints and statistics on the use of robots worldwide, productivity, and job displacement, Gissel Velarde identifies the particular problem of the lack of diversity in AI communities - and how that can exacerbate representation issues in employment, civil rights, gender, and education if no actions are taken. A timely, inciteful book which will be required reading for scholars and professionals working with AI and automation, and leaders in business and government interested in better understanding it and its effects on business and society.

Artificial Intelligence

Why a new approach is needed in the quest for general artificial intelligence. Since the inception of artificial intelligence, we have been warned about the imminent arrival of computational systems that can replicate human thought processes. Before we know it, computers will become so intelligent that humans will be lucky to kept as pets. And yet, although artificial intelligence has become increasingly sophisticated--with such achievements as driverless cars and humanless chess-playing--computer science has not yet created general artificial intelligence. In Algorithms Are Not Enough, Herbert Roitblat explains how artificial general intelligence may be possible and why a robopocalypse is neither imminent, nor likely.

Artificial Intelligence Research and Development

Artificial Intelligence is a component of Encyclopedia of Technology, Information, and Systems Management Resources in the global Encyclopedia of Life Support Systems (EOLSS), which is an integrated compendium of twenty Encyclopedias. The Theme on Artificial Intelligence provides the essential aspects and fundamentals of Artificial Intelligence: Definition, Trends, Techniques, and Cases; Logic in Artificial Intelligence (AI); Computational Intelligence; Knowledge Based System Development Tools. It is aimed at the following five major target audiences: University and College Students, Educators, Professional Practitioners, Research Personnel and Policy Analysts, Managers, and Decision Makers.

The Risk Perception of Artificial Intelligence

Are psychometric tests valid for a new reality of artificial intelligence systems, technology-enhanced humans, and hybrids yet to come? Are the Turing Test, the ubiquitous CAPTCHAs, and the various animal cognition tests the best alternatives? In this fascinating and provocative book, José Hernández-Orallo formulates major scientific questions, integrates the most significant research developments, and offers a vision of the universal evaluation of cognition. By replacing the dominant anthropocentric stance with a universal perspective where living organisms are considered as a special case, long-standing

questions in the evaluation of behavior can be addressed in a wider landscape. Can we derive task difficulty intrinsically? Is a universal g factor - a common general component for all abilities - theoretically possible? Using algorithmic information theory as a foundation, the book elaborates on the evaluation of perceptual, developmental, social, verbal and collective features and critically analyzes what the future of intelligence might look like.

Artificial Intelligence Research and Development

What is artificial intelligence (AI)? What can it do and how is it created? In this highly accessible guide to the subject, Richard Urwin explains how AI came about and how it has developed over the years through the construction of ever more sophisticated computer programs. Along the way, you will discover numerous intriguing examples of how scientists have progressed the development of AI, as well as finding out how research into brain function is continually influencing this dynamic field. By turns fascinating and scary, Artificial Intelligence takes the reader on an amazing journey that covers everything from the habits of ants to the world of the stock market. This edition has been fully updated to take account of the latest developments.

Intelligent scientific computation

An Intelligence in Our Image