

Use case

Complex & agentic reasoning

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A car accelerates uniformly from rest to a speed of 20 m/s over a distance of 100 meters. It then continues at this constant speed for 20 seconds before decelerating uniformly to rest over a distance of 200 meters. Calculate:

1. The acceleration during the initial phase.
2. The time taken during the initial

Step 1: Calculating the acceleration during the initial phase

The car uses the kinematic equation that relates initial velocity (u), final velocity (v), acceleration (a), and distance (s):

$$v^2 - u^2 = 2as$$

Plugging in the values:

$$\begin{aligned} 20^2 - 0^2 &= 2a(100) \\ 400 &= 200a \\ a &= \frac{400}{200} \\ a &= 2 \text{ m/s}^2 \end{aligned}$$

Answer: The acceleration during the initial phase is 2 m/s².

Step 2: Calculating the time taken during the acceleration phase

The car uses the equation:

$$v = u + at$$

Solving for t :

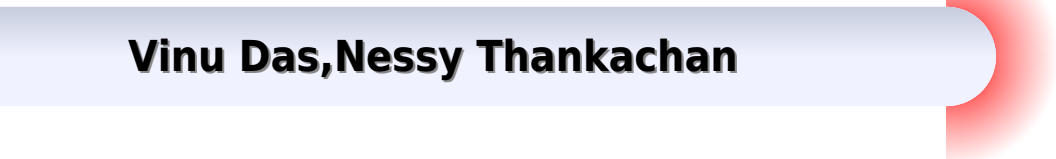
$$\begin{aligned} 20 &= 0 + 2t \\ 20 &= 2t \\ t &= \frac{20}{2} \\ t &= 10 \text{ s} \end{aligned}$$

Answer: The time taken during the initial acceleration phase is 10 seconds.

Step 3: Calculating the deceleration during the final phase

Reasoning With Complex Cases

Vinu Das, Nussy Thankachan



Reasoning With Complex Cases:

Foundations of Soft Case-Based Reasoning Sankar K. Pal, Simon C. K. Shiu, 2004-06-17 Provides a self contained description of this important aspect of information processing and decision support technology Presents basic definitions principles applications and a detailed bibliography Covers a range of real world examples including control data mining and pattern recognition

Reasoning with Complex Cases Friedrich Gebhardt, Angi Voß, Wolfgang Gräther, Barbara Schmidt-Belz, 2012-12-06 Reasoning with Complex Cases emphasizes case retrieval methods based on structured cases as they are relevant for planning configuration and design and provides a systematic view of the case reuse phase centering on complex situations So far books on case based reasoning considered comparatively simple situations only This book is a coherent work not a selection of separate contributions and consists largely of original research results using examples taken from industrial design biology medicine jurisprudence and other areas Reasoning with Complex Cases is suitable as a secondary text for graduate level courses on case based reasoning and as a reference for practitioners applying conventional CBR systems or techniques

Proceedings of the Fourteenth Annual Conference of the Cognitive Science Society Cognitive Science Society (US) Conference, 2014-05-12 This volume features the complete text of all regular papers posters and summaries of symposia presented at the 14th annual meeting of the Cognitive Science Society

Computational Intelligence and Information Technology Vinu Das, Nussy Thankachan, 2013-01-02 This book constitutes the proceedings of the First International Conference on Computational Intelligence and Information Technology CIIT 2011 held in Pune India in November 2011 The 58 revised full papers 67 revised short papers and 32 poster papers presented were carefully reviewed and selected from 483 initial submissions The papers are contributed by innovative academics and industrial experts in the field of computer science information technology computational engineering mobile communication and security and offer a stage to a common forum where a constructive dialog on theoretical concepts practical ideas and results of the state of the art can be developed

The Green Bag, 1906 Includes index 1 v

Forensic DNA Trace Evidence Interpretation Duncan Taylor, Bas Kokshoorn, 2023-05-30 Forensic DNA Trace Evidence Interpretation Activity Level Propositions and Likelihood Ratios provides all foundational information required for a reader to understand the practice of evaluating forensic biology evidence given activity level propositions and to implement the practice into active casework within a forensic institution The book begins by explaining basic concepts and foundational theory pulling together research and studies that have accumulated in forensic journal literature over the last 20 years The book explains the laws of probability showing how they can be used to derive from first principles the likelihood ratio used throughout the book to express the strength of evidence for any evaluation Concepts such as the hierarchy of propositions the difference between experts working in an investigative or evaluative mode and the practice of case assessment and interpretation are explained to provide the reader with a broad grounding in the topics that are important to understanding evaluation of evidence Activity

level evaluations are discussed in relation to biological material transferred from one object to another the ability for biological material to persist on an item for a period of time or through an event the ability to recover the biological material from the object when sampled for forensic testing and the expectations of the prevalence of biological material on objects in our environment These concepts of transfer persistence prevalence and recovery are discussed in detail in addition to the factors that affect each of them The authors go on to explain the evaluation process how to structure case information and formulate propositions This includes how a likelihood ratio formula can be derived to evaluate the forensic findings introducing Bayesian networks and explaining what they represent and how they can be used in evaluations and showing how evaluation can be tested for robustness Using these tools the authors also demonstrate the ways that the methods used in activity level evaluations are applied to questions about body fluids There are also chapters dedicated to reporting of results and implementation of activity level evaluation in a working forensic laboratory Throughout the book four cases are used as examples to demonstrate how to relate the theory to practice and detail how laboratories can integrate and implement activity level evaluation into their active casework

Getting Our Act Together Anne

Schwenkenbecher, 2020-12-30 Winner of the 2022 North American Society for Social Philosophy Book Award Together we can often achieve things that are impossible to do on our own We can prevent something bad from happening or we can produce something good even if none of us could do it by ourselves But when are we morally required to do something of moral importance together with others This book develops an original theory of collective moral obligations These are obligations that individual moral agents hold jointly but not as unified collective agents The theory does not stipulate a new type of moral obligation but rather suggests that to think of some of our obligations as joint or collective is the best way of making sense of our intuitions regarding collective moral action problems Where we have reason to believe that our efforts are most efficient as part of a collective endeavor we may incur collective obligations together with others who are similarly placed as long as we are able to establish compossible individual contributory strategies towards that goal The book concludes with a discussion of massively shared obligations to major scale moral problems such as global poverty *Getting Out Act Together* A Theory of Collective Moral Obligations will appeal to researchers and advanced students working in moral political and social philosophy philosophy of action social epistemology and philosophy of social science **ECIAIR 2019**

European Conference on the Impact of Artificial Intelligence and Robotics Dr Paul Griffiths ,Dr. Mitt Nowshade

Kabir ,2019-10-31 **The Evolution of Strategic Foresight** Tuomo Kuosa, 2016-03-16 Embracing the theory and practice of strategic foresight and illuminating how different schools of thought regard its role in policy making Tuomo Kuosa describes how something not traditionally considered an independent discipline is steadily becoming one In *The Evolution of Strategic Foresight* he explains how the practice of strategic foresight has long been closely associated with the military and politics Linking strategic thinking more broadly to futurology however it is quite new Since strategic foresight refers to the

practice of generating analyses of alternative futures and strategies based on available intelligence and foreknowledge the practice can and should be applied to companies business sectors national and trans national agencies of all descriptions and to all aspects of public policy making The author explains its practice in terms of structure process and knowledge domains and examines its methodologies and systems along with how strategic foresight can be used to produce better knowledge and be more effectively linked to policy making Using examples from 30 different countries and with access to interviews and workshops involving key experts The Evolution of Strategic Foresight will be valuable to scholars educators students engaged in strategy and future studies long range public policy and urban planners analysts risk assessment experts and consultants managers and decision makers in many organisations public and private

Logic-Based Artificial Intelligence

Jack Minker, 2012-12-06 The use of mathematical logic as a formalism for artificial intelligence was recognized by John McCarthy in 1959 in his paper on Programs with Common Sense In a series of papers in the 1960 s he expanded upon these ideas and continues to do so to this date It is now 41 years since the idea of using a formal mechanism for AI arose It is therefore appropriate to consider some of the research applications and implementations that have resulted from this idea In early 1995 John McCarthy suggested to me that we have a workshop on Logic Based Artificial Intelligence LBAI In June 1999 the Workshop on Logic Based Artificial Intelligence was held as a consequence of McCarthy s suggestion The workshop came about with the support of Ephraim Glinert of the National Science Foundation IIS 9S2013S the American Association for Artificial Intelligence who provided support for graduate students to attend and Joseph JaJa Director of the University of Maryland Institute for Advanced Computer Studies who provided both manpower and financial support and the Department of Computer Science We are grateful for their support This book consists of refereed papers based on presentations made at the Workshop Not all of the Workshop participants were able to contribute papers for the book The common theme of papers at the workshop and in this book is the use of logic as a formalism to solve problems in AI

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