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the importance of detailed examination and theoretical interpretation of the single case has been increasingly recognized in neuropsychology this book brings together in one volume discussion of the classic cases which have shaped the way we think about the relationships between brain behaviour and cognition the single cases covered may be ancient or modern famous or less well known but the book is comprehensive in its coverage of contemporary neuropsychological issues represented are classic cases in language memory perception attention and praxis some of the cases included are rare or have acted as catalysts to the development of theory some have remained the definitive case many were the first of their type to be described and gave rise to the development of new syndrome entities some are still controversial in some instances the cases resulted in major paradigm shifts some while still highly influential were misinterpreted but most of them

were read only by a few in their original form each chapter highlights the relevance of the case for the development of neuropsychology describes the particular features of the case that are interesting and discusses the theoretical implications

the purpose of this book is to introduce and explain research at the boundary between two fields that view problem solving from different perspectives researchers in operations research and artificial intelligence have traditionally remained separate in their activities recently there has been an explosion of work at the border of the two fields as members of both communities seek to leverage their activities and resolve problems that remain intractable to pure operations research or artificial intelligence techniques this book presents representative results from this current flurry of activity and provides insights into promising directions for continued exploration this book should be of special interest to researchers in artificial intelligence and operations research because it exposes a number of applications and techniques which have benefited from the integration of problem solving strategies even researchers working on different applications or with different techniques can benefit from the descriptions contained here because they provide insight into effective methods for combining approaches from the two fields additionally researchers in both communities will find a wealth of pointers to challenging new problems and potential opportunities that exist at the interface between operations research and artificial intelligence in addition to the obvious interest the book should have for members of the operations research and artificial intelligence communities the papers here are also relevant to members of other research communities and development activities that can benefit from improvements to fundamental problem solving approaches

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this book is a comprehensive analysis of the definitions concepts and recent research on malingering feigning and other response biases in psychological injury forensic disability populations it presents a new model of malingering and related biases and develops a diagnostic system based on it that is applicable to ptsd chronic pain and tbi included are suggestions for effective practice and future research based on the literature reviews and the new systems which are useful also because they can be used readily by psychiatrists as much as psychologists in malingering feigning and response style assessment in psychiatric psychological injury dr young ambitiously sets out to articulate and synthesize the polarities involved in the assessment of response styles in psychological disabilities including ptsd pain and tbi he does so thoroughly and very even handedly neither minimizing the degree that outright faking can be found in substantial numbers of examinees nor disregarding the possibility that there can be causes for validity test failure other than malingering he reviews the prior systems for classifying evidence of malingering and proposes his own criteria for feigned ptsd these are conservative and well grounded in the prior literature finally the book contains dozens of very recent references giving testament to dr young s immersion in the personal injury literature as might be expected from his experience as founder and editor in chief for psychological injury and the law reviewer steve rubenzer ph d abpp board certified forensic psychologist

a century can be understood in many ways in terms of its inventions its crimes or its art in opening skinner s box lauren slater sets out to investigate the twentieth century through a series of ten fascinating witty and sometimes shocking accounts of its

key psychological experiments starting with the founder of modern scientific experimentation b f skinner slater traces the evolution of the last hundred years most pressing concerns free will authoritarianism violence conformity and morality previously buried in academic textbooks these often daring experiments are now seen in their full context and told as stories rich in plot wit and character

proceedings of the 30th annual international conference on very large data bases held in toronto canada on august 31 september 3 2004 organized by the vldb endowment vldb is the premier international conference on database technology

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the one instruction set computer oisc is the ultimate reduced instruction set computer risc in oisc the instruction set consists of only one instruction and then by composition all other necessary instructions are synthesized this is an approach completely opposite to that of a complex instruction set computer cisc which incorporates complex instructions as microprograms within the processor computer architecture a minimalist perspective examines computer architecture

computability theory and the history of computers from the perspective of one instruction set computing a novel approach in which the computer supports only one simple instruction this bold new paradigm offers significant promise in biological chemical optical and molecular scale computers features include provides a comprehensive study of computer architecture using computability theory as a base provides a fresh perspective on computer architecture not found in any other text covers history theory and practice of computer architecture from a minimalist perspective includes a complete implementation of a one instruction computer includes exercises and programming assignments computer architecture a minimalist perspective is designed to meet the needs of a professional audience composed of researchers computer hardware engineers software engineers computational theorists and systems engineers the book is also intended for use in upper division undergraduate students and early graduate students studying computer architecture or embedded systems it is an excellent text for use as a supplement or alternative in traditional computer architecture courses or in courses entitled special topics in computer architecture

competition and intellectual property rights iprs are both necessary for a market to work efficiently and to promote consumer welfare properly applied intellectual property rules define a legal framework which allows undertakings to profit from their inventions this in turn encourages competition among firms and enhances dynamic efficiency to the benefit of consumer welfare standard setting represents one of the fields where the interaction between competition law and iprs clearly comes to light the collaborative goal of standard setting organizations ssos is to adopt and promote standards that either do not conflict with anyone s right or if they do are developed under condition that patents are licensed under defined terms this book examines the tension between iprs and competition in the standard setting field which can arise when innovators over exploit the rights they have been granted and hold up an entire industry the book compares eu and u s jurisdictions with a particular focus on the it and telecommunication sectors it scrutinizes those practices which could harm

standard setting and its goals looking at misleading conducts by ssos members which may lead to breach the eu and u s antitrust provisions on abuse of market power recent developments in eu and u s standard setting are analysed highlighting the differences in enforcement approaches the book considers how the optimal balance between iprs and industry standards can be struck suggesting a policy model which takes into account both innovators interests and ssos goals

this is the first point of reference for the communications industries it offers an introduction to a wide range of topics and concepts encountered in the field of communications technology whether you are looking for a simple explanation or need to go into a subject in more depth the communications technology handbook provides all the information you need in one single volume this second edition has been updated to include the latest technology including video on demand wire less distribution systems high speed data transmission over telephone lines smart cards and batteries global positioning systems the contents are ordered initially by communications systems this is followed by an introduction to each topic and goes on to provide more detailed information in alphabetical order every section contains an explanation of common terminology and further references are provided this approach offers flexible access to information for a variety of readers those who know little about communications professionals the book constitutes a handy reference source and a way of finding out about related technologies the book addresses an international audience by referring to all systems and standards throughout this book has been revised to include new sections on video on demand wire less distribution systems high speed data transmission over telephone lines smart cards global positioning systems provides a basic understanding of a wide range of topics offers a flexible approach for beginners and specialists alike addresses an international audience by referring to all systems and standards throughout

situating privacy within the context of political philosophy this book highlights the way in which struggles concerning the

meaning of privacy have always been political different conceptions of privacy are here shown to involve diverse assumptions about ontology our conceptions of self culture society and communication privacy theory s debt to locke kant or mill and what is at stake in their conceptual frameworks is examined the extent to which the term privacy has been used to the detriment of and to create weaker parties in marriage in the workplace and now as citizens or non citizens and consumers as well as employees is also demonstrated in contrast janice richardson pursues the relevance of floridi s philosophy of information before turning to her application of spinoza the philosopher of communication in order to outline a more useful framework through which to think about privacy today the book will be of interest to those working in political philosophy feminist philosophy law the philosophy of information sociology media and cultural studies

distributed artificial intelligence

this book constitutes the refereed proceedings of the 22nd european symposium on programming esop 2013 held as part of the european joint conferences on theory and practice of software etaps 2013 which took place in rome italy in march 2013 the 31 papers presented together with a full length invited talk were carefully reviewed and selected from 120 full submissions the contributions have been organized according to ten topical sections on programming techniques programming tools separation logic gradual typing shared memory concurrency and verification process calculi taming concurrency model checking and verification weak memory concurrency and verification and types inference and analysis

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art therapy trauma and neuroscience combines theory research and practice with traumatized populations in a neuroscience framework recognizing the importance of understanding both art therapy and trauma studies as brain based interventions some of the most renowned figures in art therapy and trauma use translational and integrative neuroscience to provide theoretical and applied techniques therapists will come away from this book with tools for a refined understanding of brain based interventions in a dynamic yet accessible format

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itisourpleasuretopresentthepapersacceptedforthe22ndinternationalwo shop on languages and compilers for parallel computing held during october 8 10 2009 in newark delaware usa since 1986 lcpc has became a valuable venueforresearchersto reportonworkinthegeneralareaofparallelcomputing high performance computer architecture and compilers lcpc 2009 continued this tradition and in particular extended the area of interest to new parallel computing

accelerators such as the ibm cell processor and graphic processing unit gpu this year we received 52 submissions from 15 countries each submission receivedatleastthreereviewsandmosthadfour thepcalsosoughtadditional externalreviewsforcontentiouspapers thepcheldanall dayphoneconference on august 24 to discuss the papers pc members who had a con ict of interest were asked to leave the call temporarily when the corresponding papers were discussed from the 52 submissions the pc selected 25 full papers and 5 short paperstobeincludedintheworkshopproceeding representinga58 acceptance rate we were fortunate to have three keynote speeches a panel discussion and a tutorial in this year s workshop first thomas sterling professor of computer science at louisiana state university gave a keynote talk titled hpc in phase change towards a new parallel execution model sterling argued that a new multi dimensional research thrust was required to realize the design goals with regard to power complexity clock rate and reliability in the new parallel c puter systems parallex anexploratoryexecutionmodeldevelopedbysterling s group was introduced to guide the co design of new architectures programming methods and system software

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this highly useful reference outlines best practices in key areas of human resources that are not only fair and equitable but that can withstand legal scrutiny industrial organizational experts apply their empirical knowledge and practical experience to aspects of hr that are commonly litigated including broad and specific topics in testing of potential employees disability issues compensation and pay equity and work hours the book is written to be accessible to readers currently in hr related graduate level training as well as hr practitioners with or without background in industrial organizational psychology and to

add to its utility chapters feature practical strategies for addressing each of the legal issues presented among the topics covered measuring adverse impact in employee selection decisions using background checks in the employee selection process disabilities best practices for vulnerabilities associated with the ada physical abilities testing wage and hour litigation clinical psychological testing for employee selection conducting compensation equity analyses practitioner s guide to legal issues in organizations brings clear up to date information to graduate students studying human resources management industrial organizational psychology who are interested in legal issues as well as applied hr practitioners such as industrial organizational psychologists human resources generalists management and labor economists

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The Virtual Coin Toss: More Than Just Heads or Tails

The humble coin toss, a seemingly simple act of chance, underpins decisions from settling disputes amongst friends to determining starting lineups in major sporting events. However, the physical limitations of a coin toss—geographic proximity, the need for a physical coin, potential for bias or manipulation—can be significant hurdles. Enter the virtual coin toss: a digital alternative offering a fair, verifiable, and readily accessible solution to the age-old problem of random selection. This article explores the mechanics, applications, and nuances of virtual coin tosses, demystifying the process and revealing its surprising versatility.

Understanding the Underlying Principles

At its core, a virtual coin toss relies on a pseudo-random number generator (PRNG). PRNGs are algorithms that produce sequences of numbers that appear random but are actually deterministic. This means that given the same initial input (the "seed"), the sequence will always be the same. While not truly random, high-quality PRNGs produce sequences exhibiting statistical randomness sufficient for most applications. The crucial aspect is the unpredictability of the output without knowledge of the seed. The process typically involves: 1. Seed Generation: The seed can be derived from various sources, including system time, user input (e.g., a password), or cryptographic hash functions applied to external data. The choice of seed generation method significantly influences the randomness and security of the toss. 2. Algorithm Execution: The PRNG

algorithm processes the seed, generating a numerical output within a specific range (e.g., 0 to 1). 3. Outcome Determination: The numerical output is mapped to the possible outcomes ("heads" or "tails"). A common approach is to assign "heads" to values below 0.5 and "tails" to values above 0.5.

Ensuring Fairness and Transparency

The fairness of a virtual coin toss hinges on the quality of the PRNG and the transparency of the process. Using a well-vetted PRNG algorithm, such as those employed in cryptography, is paramount. Furthermore, the seed generation method should be designed to prevent manipulation or prediction. A transparent system allows users to verify the process independently, ensuring no biases are introduced. For instance, some online virtual coin toss tools publish the seed value used for each toss, along with the algorithm's details. This allows users to recreate the entire process and confirm the result, eliminating any doubt about the fairness of the outcome. This level of transparency is crucial in applications where high stakes are involved, such as online gambling or decentralized decision-making processes.

Real-World Applications of Virtual Coin Tosses

The applications of virtual coin tosses extend far beyond casual games. They find use in various fields, including: Online Gaming: Determining game events, assigning roles, or initiating turns in multiplayer online games. For example, many online RPGs utilize virtual coin tosses to determine character attributes or loot distribution. Software Development: Randomizing test cases, selecting data samples for analysis, or simulating unpredictable events in software testing and development.

Scientific Research: Generating random samples in statistical analysis, simulating random processes in simulations, and conducting randomized controlled trials. Cryptocurrency: In some cryptocurrencies, virtual coin tosses are used for consensus mechanisms, helping to secure the blockchain and validate transactions. For example, proof-of-stake systems often incorporate randomness for block selection. Dispute Resolution: Settling disagreements online, particularly in situations where physical proximity is a barrier. This could involve online marketplaces resolving disputes or colleagues making remote decisions.

Implementing Your Own Virtual Coin Toss

While many readily available online tools provide virtual coin toss functionality, creating your own can be a valuable exercise in understanding the underlying principles. This requires familiarity with programming and PRNG algorithms. However, even a simple implementation using a scripting language like Python can be quite effective. Utilizing established libraries containing tested PRNGs is highly recommended to avoid introducing vulnerabilities or biases. For instance, Python's `random` module offers functions like `random.random()` which returns a pseudo-random float between 0 and 1. This can easily be mapped to "heads" or "tails" as described previously. However, for critical applications, consider using more robust libraries designed for cryptographic purposes.

Conclusion

The virtual coin toss, though seemingly simplistic, offers a powerful and versatile tool for introducing randomness into digital environments. Its fairness and accessibility make it superior to its physical counterpart in numerous situations. By understanding the underlying principles of PRNGs and prioritizing transparency, we can leverage the virtual coin toss for a wide array of applications, ranging from casual games to critical decision-making processes.

FAQs

1. Are virtual coin tosses truly random? No, they rely on pseudo-random number generators, which produce deterministic sequences. However, high-quality PRNGs produce sequences that exhibit statistical randomness sufficient for most purposes. 2. How can I ensure the fairness of a virtual coin toss? Choose a tool or implementation that uses a well-vetted PRNG, ideally one with publicly available documentation and transparency regarding the seed generation process. Independent verification of the process is also crucial. 3. What are the security implications of using a virtual coin toss? The security depends on the seed generation and the PRNG algorithm's strength. Weak seed generation can make the outcome predictable, while vulnerable PRNGs could be manipulated. Cryptographically secure PRNGs should be prioritized for sensitive applications. 4. Can a virtual coin toss be used for high-stakes decisions? Yes, but only if the implementation is meticulously designed to ensure transparency, verifiable randomness, and resistance to manipulation. Auditable logs and publicly accessible information about the process are crucial. 5. What programming languages are suitable for creating a virtual coin toss? Many languages are suitable, including Python, JavaScript, Java, and C++. The choice depends on your familiarity with

the language and the specific requirements of your application. Using established libraries for PRNGs is always recommended.

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