

CSE 6740 Homework 1

Anqi Wu, Spring 2024

Deadline: Feb. 06 Tuesday, 9:30 am

- There are 2 sections in gradescope: Homework 1 and Homework 1 Programming. Submit your answers as a PDF file to Homework 1 (including report for programming) and also submit your code in a zip file to Homework 1 Programming.
- All Homeworks are due by the beginning of class. Homework is penalized by 20% for each day that it is late (this applies additively, meaning that no credit is gained after 5 late days).
- We strongly encourage the use of LaTeX for your submission. Unreadable handwriting is subject to zero credit.
- Explicitly mention your collaborators if any.
- Recommended reading: PRML Section 9.1, 12.1
- Python and Matlab are allowed.

1 Probability [17 pts]

1. We select a positive integer I with $P\{I = n\} = \frac{1}{2^n}$. If $I = n$, we toss a coin with probability of heads $p = e^{-n}$. What is the probability that the result is heads? [4 pts]
2. In a network of computers, 15% of the computers are infected by a virus V . An anti-virus scan has the property that if a computer is infected with V , the scan will detect the infection to be positive 95% of the time. However, if the computer is not infected, the scan will still detect the infection to be positive 10% of the time. All the computers which are detected to be infected, are applied with a corrective software-patch, which causes corruption of computers' files 20% of the time. Given that a computer picked at random has corrupted files, what is the probability that it was actually infected with the virus V to begin with? [4 pts]
3. Charlie has a choice to take a bus or walk to attend CSE6740 lecture. If he walks, he gets late with a probability of $\frac{1}{3}$. However, if he takes a bus, he gets late only with a probability of $\frac{1}{6}$. Further, if he gets on time, he always keeps the same mode of travel the day after, whereas he always changes when he gets late. Let p be the probability that Charlie walks on the first day.
 - (a) What is the probability that Charlie walks on the n^{th} day? [4.5 pts]
 - (b) What is the probability that Charlie gets late on the n^{th} day? [4.5 pts]

Homework 1 Rdf Lehigh Cse

**Xiaoyong Du, Wenfei Fan, Jianmin
Wang, Zhiyong Peng, Mohamed A.
Sharaf**



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Web Technologies and Applications Xiaoyong Du, Wenfei Fan, Jianmin Wang, Zhiyong Peng, Mohamed A. Sharaf, 2011-03-31 This book constitutes the proceedings of the 13th Asia Pacific Conference APWeb 2011 held in conjunction with the APWeb 2011 Workshops XMLDM and USD in Beijing China in April 2011 The 26 full papers presented together with 10 short papers 3 keynote talks and 4 demo papers were carefully reviewed and selected from 104 submissions The submissions range over a variety of topics such as classification and clustering spatial and temporal databases personalization and recommendation data analysis and application Web mining Web search and information retrieval complex and social networks and secure and semantic Web

Knowledge Science, Engineering and Management Songmao Zhang, Martin Wirsing, Zili Zhang, 2015-10-23 This book constitutes the refereed proceedings of the 8th International Conference on Knowledge Science Engineering and Management KSEM 2015 held in Chongqing China in October 2015 The 57 revised full papers presented together with 22 short papers and 5 keynotes were carefully selected and reviewed from 247 submissions The papers are organized in topical sections on formal reasoning and ontologies knowledge management and concept analysis knowledge discovery and recognition methods text mining and analysis recommendation algorithms and systems machine learning algorithms detection methods and analysis classification and clustering mobile data analytics and knowledge management bioinformatics and computational biology and evidence theory and its application

Big Data Analytics and Knowledge Discovery Matteo Golfarelli, Robert Wrembel, Gabriele Kotsis, A Min Tjoa, Ismail Khalil, 2021-09-04 This volume LNCS 12925 constitutes the papers of the 23rd International Conference on Big Data Analytics and Knowledge Discovery held in September 2021 Due to COVID 19 pandemic it was held virtually The 12 full papers presented together with 15 short papers in this volume were carefully reviewed and selected from a total of 71 submissions The papers reflect a wide range of topics in the field of data integration data warehousing data analytics and recently big data analytics in a broad sense The main objectives of this event are to explore disseminate and exchange knowledge in these fields

The Semantic Web - ISWC 2009 Abraham Bernstein, David R. Karger, Tom Heath, Lee Feigenbaum, Diana Maynard, Enrico Motta, Krishnaprasad Thirunarayan, 2009-10-08 As the Web continues to grow increasing amounts of data are being made available for human and machine consumption This emerging Semantic Web is rapidly entering the mainstream and as a result a variety of new solutions for searching aggregating and the intelligent delivery of information are being produced both in research and commercial settings Several new challenges arise from this context both from a technical and human computer interaction perspective e.g. as issues to do with the scalability and usability of Semantic Web solutions become particularly important The International Semantic Web Conference ISWC is the major international forum where the latest research results and technical innovations on all aspects of the Semantic Web are presented ISWC brings together researchers practitioners and users from the areas of artificial intelligence databases social networks distributed computing

Webengineering informationsystems natural language processing soft computing and human computer interaction to discuss the major challenges and proposed solutions success stories and failures as well the visions that can advance the field

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Table of Contents Homework 1 Rdf Lehigh Cse

1. Understanding the eBook Homework 1 Rdf Lehigh Cse
 - The Rise of Digital Reading Homework 1 Rdf Lehigh Cse
 - Advantages of eBooks Over Traditional Books
2. Identifying Homework 1 Rdf Lehigh Cse
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Homework 1 Rdf Lehigh Cse
 - User-Friendly Interface
4. Exploring eBook Recommendations from Homework 1 Rdf Lehigh Cse

- Personalized Recommendations
- Homework 1 Rdf Lehigh Cse User Reviews and Ratings
- Homework 1 Rdf Lehigh Cse and Bestseller Lists
- 5. Accessing Homework 1 Rdf Lehigh Cse Free and Paid eBooks
 - Homework 1 Rdf Lehigh Cse Public Domain eBooks
 - Homework 1 Rdf Lehigh Cse eBook Subscription Services
 - Homework 1 Rdf Lehigh Cse Budget-Friendly Options
- 6. Navigating Homework 1 Rdf Lehigh Cse eBook Formats
 - ePub, PDF, MOBI, and More
 - Homework 1 Rdf Lehigh Cse Compatibility with Devices
 - Homework 1 Rdf Lehigh Cse Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Homework 1 Rdf Lehigh Cse
 - Highlighting and Note-Taking Homework 1 Rdf Lehigh Cse
 - Interactive Elements Homework 1 Rdf Lehigh Cse
- 8. Staying Engaged with Homework 1 Rdf Lehigh Cse
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Homework 1 Rdf Lehigh Cse
- 9. Balancing eBooks and Physical Books Homework 1 Rdf Lehigh Cse
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Homework 1 Rdf Lehigh Cse
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Homework 1 Rdf Lehigh Cse
 - Setting Reading Goals Homework 1 Rdf Lehigh Cse
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Homework 1 Rdf Lehigh Cse

- Fact-Checking eBook Content of Homework 1 Rdf Lehigh Cse
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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