

Stats Predicted Paper 1 Solutions

Q1 (a) Better to take a random selection not first 10. Measured in Decimeters.

(b) By calc $y = 12.03 - 0.1546x$

(c) $h = 20 = 12.03 - 0.1546(\frac{x}{100})$

$h = 92.03 - 0.001546v$

Estimate: $22 = 92.03 - 0.001546v$

$\Rightarrow v = 64.88$ Decimeters

(a) $H_0: \rho = 0$

$H_1: \rho < 0$

$n = 10$

$r = -0.4387 > -0.4428$ ← from table

Hence value is not critical

Accept H_0 , reject H_1 , insufficient evidence to suggest correlation coefficient is less than zero. This implies that my estimate from (c) is unlikely to be accurate as the points do not lie close to a straight line, so our regression line is unlikely to be that useful for modelling.

Q2 (a) $\frac{10}{22} \times (64.5 - 59.5) + 59.5 = 61.77$ (b) $[(5 \times 49.5) + (10 \times 57) + (22 \times 62) + (13 \times 69.5)] \div 50 = 61.7$

(c) by calc $\sigma_x = 5.93$

(d) Standard Deviation is likely to increase as the sample is much larger and so will likely have a wider variety of weights.

Q3 (a) If $P(A \cup B) = 0.9$ then $P(A \cap B) = 0.1$



As $P(A/B) = \frac{2}{7}$

$\frac{2}{7} = \frac{0.1-x}{0.1+x} \Rightarrow x = 0.25$

So $P(B) = 0.35$

(b) $P(A/B) = \frac{P(A \cap B)}{P(B)}$
 $= \frac{0.35}{0.65}$
 $= \frac{7}{13}$

(c)



Q4 $X \sim B(10, 0.55)$

(a) $P(X=7) = 0.166$

(b) $P(X=7/X \geq 5) = \frac{P(X=7)}{P(X \geq 5)} = \frac{P(X=7)}{1-P(X \leq 4)} = \frac{0.166}{1-0.266} = 0.225$

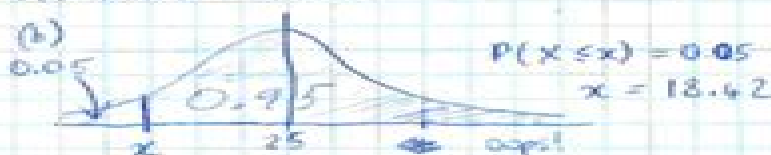
(c) $0.45^3 \times 0.55 = 0.05$

(d) $X \sim B(100, 0.55)$ Approx to $Y \sim N(55, 2)$ $\mu = 55, \sigma^2 = 2$
 $P(X \geq 51) \approx P(Y \geq 50.5)$
 $= 0.817$

Q5 (a) $X \sim N(25, 4^2)$

$P(X \geq 32) = 0.04$

(b)



(c) $H_0: \mu = 25$
 $H_1: \mu < 25$

$\bar{X} \sim N(25, \frac{4^2}{20})$ $\sigma = \frac{4}{\sqrt{20}}$

$P(\bar{X} \leq 23.5) = 0.0468$

Pixel Statistics Predicted Paper 2014

S Marginson



Pixel Statistics Predicted Paper 2014:

Information and Communication Technology Linawati,Made Sudiana Mahendra,Erich J. Neuhold,A Min Tjoa,Ilsun You,2014-03-25 This book constitutes the refereed proceedings of the Second IFIP TC 5 8 International Conference on Information and Communication Technology ICT Eur Asia 2014 with the collocation of Asia ARES 2014 as a special track on Availability Reliability and Security held in Bali Indonesia in April 2014 The 70 revised full papers presented were carefully reviewed and selected from numerous submissions The papers have been organized in the following topical sections applied modeling and simulation mobile computing advanced urban scale ICT applications semantic web and knowledge management cloud computing image processing software engineering collaboration technologies and systems e learning data warehousing and data mining e government and e health biometric and bioinformatics systems network security dependable systems and applications privacy and trust management cryptography multimedia security and dependable systems and applications

Statistical Methods and Applications in Systems Assurance and Quality Sotiris Bersimis,Polychronis Economou,Athanasios Rakitzis,2025-09-25 In the era of big data and real time monitoring vast amounts of information are generated every second through sensors and advanced tracking systems The information contained in the data needs to be carefully analyzed and accurate results must be delivered to the users as soon as possible This book explores the critical role of statistics in modern technologies and applied sciences such as health informatics and production systems Statistical Methods and Applications in Systems Assurance and Quality provides a comprehensive overview of statistical methods for ensuring system quality and reliability It discusses best practices for improving the quality of manufacturing products by using proper statistical methods The book covers the current state of statistical methods used for system quality and conveys the importance of healthcare systems and employing statistics in the detection of epidemic outbreaks Designed for researchers industry professionals and academics this reference is ideal for those working in manufacturing healthcare computer engineering statistical process control and machine learning applications It serves as a valuable resource for anyone seeking to enhance system performance through data driven insights

Databases Theory and Applications Junhu Wang,Gao Cong,Jinjun Chen,Jianzhong Qi,2018-05-17 This book constitutes the refereed proceedings of the 29th Australasian Database Conference ADC 2018 held in Gold Coast QLD Australia in May 2018 The 23 full papers plus 6 short papers presented together with 3 demo papers were carefully reviewed and selected from 53 submissions The Australasian Database Conference is an annual international forum for sharing the latest research advancements and novel applications of database systems data driven applications and data analytics between researchers and practitioners from around the globe particularly Australia and New Zealand

Big Data for Insurance Companies Marine Corlosquet-Habart,Jacques Janssen,2018-03-13 This book will be a must for people who want good knowledge of big data concepts and their applications in the real world particularly in the field of insurance It will be useful to people working in finance and to masters students

using big data tools The authors present the bases of big data data analysis methods learning processes application to insurance and position within the insurance market Individual chapters will be written by well known authors in this field

From Observations to Predictions and Projections: Opportunities and Challenges for Climate Risk Assessment and Management in Sub-Saharan Africa Joerg Helmschrot, Gregory Husak, Francois Engelbrecht, 2022-12-06

Ultra-Thin Sensors and Data Conversion Techniques for Hybrid System-in-Foil Mourad Elsobky, 2022-03-18 This book reports on the design fabrication and characterization of a set of flexible electronic components including on foil sensors organic thin film transistors and ultra thin chips The core of the work is on showing how to combine high performance integrated circuits with large area electronic components on a single polymeric foil to realize smart electronic systems for different applications such as temperature humidity and mechanical stress sensors The book offers an extensive introduction to Hybrid System in Foil technology HySiF and related on chip on foil passive and active components It presents six case studies designed to highlight key HySiF challenges together with the methodology to address those challenges Last but not least it describes the development of a reconfigurable energy efficient Analog to Digital Converter for HySiF All in all this book provides readers with extensive information on the state of the art in the design and characterization of integrated circuits and hybrid electronic systems on flexible polymeric substrates By describing significant advances in organic thin film transistor technology this work is expected to pave the way to future developments in the area of energy efficient smart sensors and integrated circuits

Dynamic Neural Networks for Robot Systems: Data-Driven and Model-Based Applications Long Jin, Predrag S. Stanimirovic, Sendren Sheng-Dong Xu, 2024-07-24 Neural network control has been a research hotspot in academic fields due to the strong ability of computation One of its widely applied fields is robotics In recent years plenty of researchers have devised different types of dynamic neural network DNN to address complex control issues in robotics fields in reality Redundant manipulators are no doubt indispensable devices in industrial production There are various works on the redundancy resolution of redundant manipulators in performing a given task with the manipulator model information known However it becomes knotty for researchers to precisely control redundant manipulators with unknown model to complete a cyclic motion generation CMG task to some extent It is worthwhile to investigate the data driven scheme and the corresponding novel dynamic neural network DNN which exploits learning and control simultaneously Therefore it is of great significance to further research the special control features and solve challenging issues to improve control performance from several perspectives such as accuracy robustness and solving speed

Statistical Language and Speech Processing Laurent Besacier, Adrian-Horia Dediu, Carlos Martín-Vide, 2014-09-02 This book constitutes the refereed proceedings of the Second International Conference on Statistical Language and Speech Processing SLSP 2014 held in Grenoble France in October 2014 The 18 full papers presented together with three invited talks were carefully reviewed and selected from 53 submissions The papers are organized in topical sections on machine translation speech and speaker

recognition machine learning methods text extraction and categorization and mining text *Image and Video Technology*
Manoranjan Paul, Carlos Hitoshi, Qingming Huang, 2018-02-15 This book constitutes the thoroughly refereed post conference proceedings of the 8th Pacific Rim Symposium on Image and Video Technology PSIVT 2017 held in Wuhan China in November 2017 The total of 39 revised papers was carefully reviewed and selected from 91 submissions The Pacific Rim Symposium on Image and Video Technology PSIVT is a high quality series of symposia that aim at providing a forum for researchers and practitioners who are being involved or are contributing to theoretical advances or practical implementations in image and video technology **Applied Data Science** Martin Braschler, Thilo Stadelmann, Kurt Stockinger, 2019-06-13 This book has two main goals to define data science through the work of data scientists and their results namely data products while simultaneously providing the reader with relevant lessons learned from applied data science projects at the intersection of academia and industry As such it is not a replacement for a classical textbook i e it does not elaborate on fundamentals of methods and principles described elsewhere but systematically highlights the connection between theory on the one hand and its application in specific use cases on the other With these goals in mind the book is divided into three parts Part I pays tribute to the interdisciplinary nature of data science and provides a common understanding of data science terminology for readers with different backgrounds These six chapters are geared towards drawing a consistent picture of data science and were predominantly written by the editors themselves Part II then broadens the spectrum by presenting views and insights from diverse authors some from academia and some from industry ranging from financial to health and from manufacturing to e commerce Each of these chapters describes a fundamental principle method or tool in data science by analyzing specific use cases and drawing concrete conclusions from them The case studies presented and the methods and tools applied represent the nuts and bolts of data science Finally Part III was again written from the perspective of the editors and summarizes the lessons learned that have been distilled from the case studies in Part II The section can be viewed as a meta study on data science across a broad range of domains viewpoints and fields Moreover it provides answers to the question of what the mission critical factors for success in different data science undertakings are The book targets professionals as well as students of data science first practicing data scientists in industry and academia who want to broaden their scope and expand their knowledge by drawing on the authors combined experience Second decision makers in businesses who face the challenge of creating or implementing a data driven strategy and who want to learn from success stories spanning a range of industries Third students of data science who want to understand both the theoretical and practical aspects of data science vetted by real world case studies at the intersection of academia and industry

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