

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 $P(A \cap B) = 0.1$



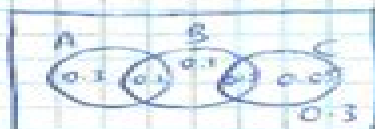
As $P(A/B) = \frac{2}{7}$

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

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) $P(X=7/X \geq 5) = \frac{P(X=7)}{P(X \geq 5)} = \frac{P(X=7)}{1 - P(X \leq 4)} = \frac{0.166}{1 - 0.2616} = 0.225$

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

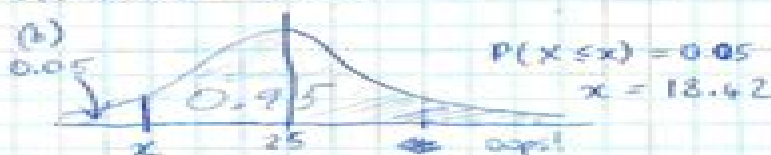
(d) $X \sim B(100, 0.55)$ Approx to $Y \sim N(55, 2)$ $\mu = 55$ $\sigma^2 = 2$

$P(X \geq 51) \approx P(Y \geq 50.5)$
 $= 0.817$

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

Guillaume Favre



Pixel Statistics Predicted Paper 2014:

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

Digital Forensics and Watermarking Xianfeng Zhao, Alessandro Piva, Pedro Comesaña-Alfaro, 2022-01-20 This volume constitutes the proceedings of the 20th International Workshop on Digital Forensics and Watermarking IWDW 2021 held in Beijing China in November 2021 The 18 full papers in this volume were carefully reviewed and selected from 32 submissions The are categorized in the following topical headings Forensics and Security Analysis Watermarking and Steganology

Digital-Forensics and Watermarking Yun-Qing Shi, Hyoung Joong Kim, Fernando Pérez-González, Isao Echizen, 2016-03-30 This book constitutes revised selected papers from the 14th International Workshop on Digital Forensics and Watermarking IWDW 2015 held in Tokyo Japan in October 2015 The 35 papers presented in this volume were carefully reviewed and selected from 54 submissions The contributions are organized in topical sections named digital forensics steganography and steganalysis digital watermarking reversible data hiding and visual cryptography

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

Cloud Computing and Security Xingming Sun, Alex Liu, Han-Chieh Chao, Elisa Bertino, 2016-11-03 This two volume set LNCS 10039 and LNCS 10040 constitutes the thoroughly refereed post conference proceedings of the Second International Conference on Cloud Computing and Security ICCCS 2016 held in Nanjing China during July 29 31 2016 The 97 papers of

these volumes were carefully reviewed and selected from 272 submissions The papers are organized in topical sections such as Information Hiding Cloud Computing Cloud Security IOT Applications Multimedia Applications Multimedia Security and Forensics **Provable and Practical Security** Mingwu Zhang,Man Ho Au,Yudi Zhang,2023-10-10 This volume LNCS 14217 constitutes the refereed proceedings of the 17th International Conference on Provable and Practical Security ProvSec 2023 held in Wuhan China during October 2023 The 20 full papers presented together with 3 short papers were carefully reviewed and selected from 71 submissions The conference focuses on Fundamentals Cryptanalysis Signature Encryption Privacy Preservation and Blockchain Security **Medical Computer Vision: Algorithms for Big Data** Bjoern Menze,Georg Langs,Albert Montillo,Michael Kelm,Henning Müller,Shaoting Zhang,Weidong Cai,Dimitris Metaxas,2016-07-29 This book constitutes the thoroughly refereed prost workshop proceedings of the International Workshop on Medical Computer Vision Algorithms for Big Data MCS 2015 held in Munich Germany in October 2015 held in conjunction with the 18th International Conference on Medical Image Computing and Computer Assisted Intervention MICCAI 2015 The workshop shows well the current trends and tendencies in medical computer vision and how the techniques can be used in clinical work and on large data sets It is organized in the following sections predicting disease atlas exploitation and avoidance machine learning based analyses advanced methods for image analysis poster sessions The 10 full 5 short 1 invited papers and one overview paper presented in this volume were carefully reviewed and selected from 22 submissions 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 a will be written by well known authors in this field 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

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 *Deep Learning for Toxicity and Disease Prediction* Ping Gong,Chaoyang Zhang,Minjun Chen,2020-04-01 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

Applied Data Science Martin Bruschler,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

Intelligent System for Screening Diabetic

Retinopathy by Using Neutrosophic and Statistical Fundus Image Features. Bazhdar N. SH. Mohammed, Raghad Z. Yousif, Diabetic retinopathy DR is considered as one of the global diseases of blindness especially for aged people The main reason behind this disease is the complication of diabetes in retinal blood vessels Usually the early warning signs are not observed Screening is an important key for the diagnosis of early stages of diabetic retinopathy In this work a new technique for automatically screening three categories Normal Non Proliferative Diabetic Retinopathy Non PDR and Proliferative Diabetic Retinopathy PDR disease is presented that is may help doctors and physicians to make a preliminary decision

Intelligence Science and Big Data Engineering. Image and Video Data Engineering Xiaofei He, Xinbo Gao, Yanning Zhang, Zhi-Hua Zhou, Zhi-Yong Liu, Baochuan Fu, Fuyuan Hu, Zhancheng Zhang, 2015-10-13 The two volume set LNCS 9242 9243 constitutes the proceedings of the 5th International Conference on Intelligence Science and Big Data Engineering IScIDE 2015 held in Suzhou China in June 2015 The total of 126 papers presented in the proceedings was carefully reviewed and selected from 416 submissions They deal with big data neural networks image processing computer vision pattern recognition and graphics object detection dimensionality reduction and manifold learning unsupervised learning and clustering anomaly detection semi supervised learning **Space Weather Prediction: Challenges and Prospects** Nandita Srivastava, Marilena Mierla, Jie Zhang, 2022-02-04 **Application of Machine Learning in Agriculture** Mohammad Ayoub Khan, Rijwan Khan, Mohammad Aslam Ansari, 2022-05-14 Application of Machine Learning in Smart Agriculture is the first book to present a multidisciplinary look at how technology can not only improve agricultural output but the economic efficiency of that output as well Through a global lens the book approaches the subject from a technical perspective providing important knowledge and insights for effective and efficient implementation and utilization of machine learning As artificial intelligence techniques are being used to increase yield through optimal planting fertilizing irrigation and harvesting these are only part of the complex picture which must also take into account the economic investment and its optimized return The performance of machine learning models improves over time as the various mathematical and statistical models are proven Presented in three parts Application of Machine Learning in Smart Agriculture looks at the fundamentals of smart agriculture the economics of the technology in the agricultural marketplace and a diverse representation of the tools and techniques currently available and in development This book is an important resource for advanced level students and professionals working with artificial intelligence internet of things technology and agricultural economics Addresses the technology of smart agriculture from a technical perspective Reveals opportunities for technology to improve and enhance not only yield and quality but the economic value of a food crop Discusses physical instruments simulations sensors and markets for machine learning in agriculture **Artificial intelligence-based medical image automatic diagnosis and prognosis prediction** Junchi Yan, Yukun Lai, Yi Xu, Yinqiang Zheng, Zhibin Niu, Tao Tan, 2023-06-27 *Recent Advances in Intelligent Information Hiding and Multimedia Signal Processing* Jeng-Shyang

Pan,Akinori Ito,Pei-Wei Tsai,Lakhmi C. Jain,2018-11-10 This book features papers presented at IIH MSP 2018 the 14th International Conference on Intelligent Information Hiding and Multimedia Signal Processing The scope of IIH MSP included information hiding and security multimedia signal processing and networking and bio inspired multimedia technologies and systems The book discusses subjects related to massive image video compression and transmission for emerging networks advances in speech and language processing recent advances in information hiding and signal processing for audio and speech signals intelligent distribution systems and applications recent advances in security and privacy for multimodal network environments multimedia signal processing and machine learning Presenting the latest research outcomes and findings it is suitable for researchers and students who are interested in the corresponding fields IIH MSP 2018 was held in Sendai Japan on 26 28 November 2018 It was hosted by Tohoku University and was co sponsored by the Fujian University of Technology in China the Taiwan Association for Web Intelligence Consortium in Taiwan and the Swinburne University of Technology in Australia as well as the Fujian Provincial Key Laboratory of Big Data Mining and Applications Fujian University of Technology and the Harbin Institute of Technology Shenzhen Graduate School in China *Handbook of Research on Cloud Computing and Big Data Applications in IoT* Gupta, B. B.,Agrawal, Dharma P.,2019-04-12 Today cloud computing big data and the internet of things IoT are becoming indubitable parts of modern information and communication systems They cover not only information and communication technology but also all types of systems in society including within the realms of business finance industry manufacturing and management Therefore it is critical to remain up to date on the latest advancements and applications as well as current issues and challenges The Handbook of Research on Cloud Computing and Big Data Applications in IoT is a pivotal reference source that provides relevant theoretical frameworks and the latest empirical research findings on principles challenges and applications of cloud computing big data and IoT While highlighting topics such as fog computing language interaction and scheduling algorithms this publication is ideally designed for software developers computer engineers scientists professionals academicians researchers and students

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