Median Imputation In Weka

Intelligent Information and Database Systems

This book constitutes the refereed proceedings of the 13th Asian Conference on Intelligent Information and Database Systems, ACIIDS 2021, held in Phuket, Thailand, in April 2021.* The 67 full papers accepted for publication in these proceedings were carefully reviewed and selected from 291 submissions. The papers of the first volume are organized in the following topical sections: data mining methods and applications; machine learning methods; decision support and control systems; natural language processing; cybersecurity intelligent methods; computer vision techniques; computational imaging and vision; advanced data mining techniques and applications; intelligent and contextual systems; commonsense knowledge, reasoning and programming in artificial intelligence; data modelling and processing for industry 4.0; innovations in intelligent systems. *The conference was held virtually.

Soft Computing and Signal Processing

This book presents selected research papers on current developments in the fields of soft computing and signal processing from the Second International Conference on Soft Computing and Signal Processing (ICSCSP 2019). The respective contributions address topics such as soft sets, rough sets, fuzzy logic, neural networks, genetic algorithms and machine learning, and discuss various aspects of these topics, e.g. technological considerations, product implementation, and application issues.

Recent Advances in Information and Communication Technology 2018

This book contains the research contributions presented at the 14th International Conference on Computing and Information Technology (IC2IT 2018) organised by King Mongkut’s University of Technology North Bangkok and its partners, and held in the northern Thai city of Chiang Mai in July 2018. Traditionally, IC2IT 2018 provides a forum for exchange on the state of the art and on expected future developments in its field. Correspondingly, this book contains chapters on topics in data mining, machine learning, natural language processing, image processing, networks and security, software engineering and information technology. With them, the editors want to foster inspiring discussions among colleagues, not only during the conference. It is also intended to contribute to a deeper understanding of the underlying problems as needed to solve them in complex environments and, beneficial for this purpose, to encourage interdisciplinary cooperation.

Data Science

This edited volume on the latest advances in data science covers a wide range of topics in the context of data analysis and classification. In particular, it includes contributions on classification methods for high-dimensional data, clustering methods, multivariate statistical methods, and various applications. The book gathers a selection of peer-reviewed contributions presented at the Fifteenth Conference of the International Federation of Classification Societies (IFCS2015), which was hosted by the Alma Mater Studiorum, University of Bologna, from July 5 to 8, 2015.

Artificial Intelligence for Innovative Healthcare Informatics

There are several popular books published in Healthcare Computational Informatics like Computational Bioengineering and Bioinformatics (2020), Springer; Health Informatics (2017), Springer; Health Informatics Vision: From Data via Information to Knowledge (2019), IOS Press; Data Analytics in

Biomedical Engineering and Healthcare (2020), Elsevier. However, in all these mentioned books, the challenges in Biomedical Imaging are solved in one dimension by use of any specific technology like Image Processing, Machine Learning or Computer Aided Systems. In this book, the book it has been attempted to bring all technologies related to computational analytics together and apply them on Biomedical Imaging.

Automated Machine Learning

This open access book presents the first comprehensive overview of general methods in Automated Machine Learning (AutoML), collects descriptions of existing systems based on these methods, and discusses the first series of international challenges of AutoML systems. The recent success of commercial ML applications and the rapid growth of the field has created a high demand for off-the-shelf ML methods that can be used easily and without expert knowledge. However, many of the recent machine learning successes crucially rely on human experts, who manually select appropriate ML architectures (deep learning architectures or more traditional ML workflows) and their hyperparameters. To overcome this problem, the field of AutoML targets a progressive automation of machine learning, based on principles from optimization and machine learning itself. This book serves as a point of entry into this quickly-developing field for researchers and advanced students alike, as well as providing a reference for practitioners aiming to use AutoML in their work.

Intracranial Pressure and Brain Monitoring XIV

Nearly 80 short papers originating from the 14th International Symposium on Intracranial Pressure and Brain Monitoring held in Tuebingen, Germany, in September 2010 present experimental as well as clinical research data related to the naming topics of the conference. The papers have undergone a peer-reviewing and are organized in the following sections: methods of brain monitoring and data analysis, methods of invasive and non-invasive ICP assessment, the role of autoregulation, the role of tissue oxygenation and near-infrared spectroscopy, hydrocephalus/IIH imaging and diagnosis, management and therapy of hydrocephalus, management and therapy of traumatic brain injury, management and therapy of subarachnoid and intracranial hemorrhage, experimental approaches to acute brain disease. The book gives a good overview on the latest research developments in the field of ICP and related brain monitoring and on management and therapy of relevant acute brain diseases.

Computational Collective Intelligence

This two-volume set (LNAI 9329 and LNAI 9330) constitutes the refereed proceedings of the 7th International Conference on Collective Intelligence, ICCCI 2014, held in Madrid, Spain, in September 2015. The 110 full papers presented were carefully reviewed and selected from 186 submissions. They are organized in topical sections such as multi-agent systems; social networks and NLP; sentiment analysis; computational intelligence and games; ontologies and information extraction; formal methods and simulation; neural networks, SMT and MIS; collective intelligence in Web systems – Web systems analysis; computational swarm intelligence; cooperative strategies for decision making and optimization; advanced networking and security technologies; IT in biomedicine; collective computational intelligence in educational context; science intelligence and data analysis; computational intelligence in financial markets; ensemble learning; big data mining and searching.

Hybrid Artificial Intelligent Systems

This volume constitutes the refereed proceedings of the 13th International Conference on Hybrid Artificial Intelligent Systems, HAIS 2018, held in Oviedo, Spain, in June 2018. The 62 full papers published in this volume were carefully reviewed and selected from 104 submissions. They are organized in the following topical sections: Neurocomputing, fuzzy systems, rough sets, evolutionary algorithms, Agents andMultiagent Systems, and alike.

Maschinelles Lernen

Maschinelles Lernen ist die künstliche Generierung von Wissen aus Erfahrung. Dieses Buch diskutiert Methoden aus den Bereichen Statistik, Mustererkennung und kombiniert die unterschiedlichen Ansätze, um effiziente Lösungen zu finden. Diese Auflage bietet ein neues Kapitel über Deep Learning und erweitert die Inhalte über mehrlagige Perzeptrone und bestärkendes Lernen. Eine neue Sektion über erzeugende gegnerische Netzwerke ist ebenfalls dabei.

Advances in Science, Engineering and Technology

The objective of the conference was to provide a common platform for innovative academicians and industrial experts working in the fields of sciences, engineering, and information technology. It provided a platform for knowledge exchange and the development of new ideas on the transformative technologies of quantum computing, video analytics, Artificial Intelligence, and Machine Learning. The conference also discussed the significance of cutting-edge technologies, specifically Machine Learning, and its pivotal role in the future of science and industry.

Engineering and Management of IT-based Service Systems

Intelligent Decision-Making Support Systems (i-DMSS) are specialized IT-based systems that support some or several phases of the individual, team, organizational or inter-organizational decision making process by deploying some or several intelligent mechanisms. This book pursues the following academic aims: (i) generate a compendium of quality theoretical and applied contributions in Intelligent Decision-Making Support Systems (i-DMSS) for engineering and management IT-based service systems (ITSS); (ii) diffuse scarce knowledge about foundations, architectures and effective and efficient methods and strategies for successfully planning, designing, building, operating, and evaluating i-DMSS for ITSS, and (iii) create an awareness of, and a bridge between ITSS and i-DMSS academicians and practitioners in the current complex and dynamic engineering and management ITSS organizational. The book presents a collection of 11 chapters referring to relevant topics for both IT service systems and i-DMSS including: problems of selection of IT service providers, optimization of supply chain systems, IT governance decisions, clinical decision support, dynamic user-interface adaptation, re-engineering of processes, and generic decision problems. Advanced IT technologies used in some chapters are: fuzzy multi-criteria mechanisms, semantic processing, data mining processing, and rough sets. Other chapters report traditional DSS mechanisms but used or suggested to be used in innovative mode for IT service engineering and management tasks.

Advanced Information Systems Engineering

This book constitutes the proceedings of 26th International Conference on Advanced Information Systems Engineering, CAiSE 2014, held in Thessaloniki, Greece in June 2014. The 41 papers and 3 keynotes presented were carefully reviewed and selected from 226 submissions. The accepted papers were presented in 13 sessions: clouds and services; requirements; product lines; requirements elicitation; processes; risk and security; process models; data mining and streaming; process mining; models; mining event logs; databases; software engineering.

EAI International Conference on Big Data Innovation for Sustainable Cognitive Computing

This proceeding features papers discussing big data innovation for sustainable cognitive computing. The papers feature detail on cognitive computing and its self-learning systems that use data mining, pattern recognition and natural language processing (NLP) to mirror the way the human brain works. This international conference focuses on cognitive computing technologies, from knowledge representation

techniques and natural language processing algorithms to dynamic learning approaches. Topics covered include Data Science for Cognitive Analysis, Real-Time Ubiquitous Data Science, Platform for Privacy Preserving Data Science, and Internet-Based Cognitive Platform. The EAI International Conference on Big Data Innovation for Sustainable Cognitive Computing (BDCC 2018), took place on 13 – 15 December 2018 in Coimbatore, India.

Proceedings - 31. Workshop Computational Intelligence : Berlin, 25. - 26. November 2021

Dieser Tagungsband enthält die Beiträge des 31. Workshop Computational Intelligence. Die Schwerpunkte sind Methoden, Anwendungen und Tools für Fuzzy-Systeme, Künstliche Neuronale Netze, Evolutionäre Algorithmen und Data-Mining-Verfahren sowie der Methodenvergleich anhand von industriellen und Benchmark-Problemen. - The proceedings of the 31st Workshop on Computational Intelligence focus on methods, applications, and tools for fuzzy systems, artificial neural networks, deep learning, system identification, and data mining techniques.

Quantitative Asset Management: Factor Investing and Machine Learning for Institutional Investing

Augment your asset allocation strategy with machine learning and factor investing for unprecedented returns and growth Whether you’re managing institutional portfolios or private wealth, Quantitative Asset Management will open your eyes to a new, more successful way of investing—one that harnesses the power of big data and artificial intelligence. This innovative guide walks you through everything you need to know to fully leverage these revolutionary tools. Written from the perspective of a seasoned financial investor making use of technology, it details proven investing methods, striking a rare balance between providing important technical information without burdening you with overly complex investing theory. Quantitative Asset Management is organized into four thematic sections: Part I reveals invaluable lessons for planning and governance of investment decision-making. Part 2 discusses quantitative financial modeling, covering important topics like overfitting, mitigating unrealistic assumptions, managing substitutions, enhancing minority classes, and missing data imputation. Part 3 shows how to develop a strategy into an investment product, including the alpha models, risk models, implementation, backtesting, and cost optimization. Part 4 explains how to measure performance, learn from mistakes, manage risk, and survive financial tragedies. With Quantitative Asset Management, you have everything you need to build your awareness of other markets, ask the right questions and answer them effectively, and drive steady profits even through times of great uncertainty.

Machine Learning Kochbuch

Python-Programmierer finden in diesem Kochbuch nahezu 200 wertvolle und jeweils in sich abgeschlossene Anleitungen zu Aufgabenstellungen aus dem Bereich des Machine Learning, wie sie für die tägliche Arbeit typisch sind – von der Vorverarbeitung der Daten bis zum Deep Learning. Entwickler, die mit Python und seinen Bibliotheken einschließlich Pandas und Scikit-Learn vertraut sind, werden spezifische Probleme erfolgreich bewältigen – wie etwa Daten laden, Text und numerische Daten behandeln, Modelle auswählen, Dimensionalität reduzieren und vieles mehr. Jedes Rezept enthält Code, den Sie kopieren, zum Testen in eine kleine Beispieldatenmenge einfügen und dann anpassen können, um Ihre eigenen Anwendungen zu konstruieren. Darüber hinaus werden alle Lösungen diskutiert und wichtige Zusammenhänge hergestellt. Dieses Kochbuch unterstützt Sie dabei, den Schritt von der Theorie und den Konzepten hinein in die Praxis zu machen. Es liefert das praktische Rüstzeug, das Sie benötigen, um funktionierende Machine-Learning-Anwendungen zu entwickeln. In diesem Kochbuch finden Sie Rezepte für: Vektoren, Matrizen und Arrays den Umgang mit numerischen und kategorischen Daten, Texten, Bildern sowie Datum und Uhrzeit das Reduzieren der Dimensionalität durch Merkmalsextraktion oder Merkmalsauswahl Modellbewertung und -

auswahl lineare und logistische Regression, Bäume und Wälder und k-nächste Nachbarn Support Vector Machine (SVM), naive Bayes, Clustering und neuronale Netze das Speichern und Laden von trainierten Modellen

Das Konnektom - Erklärt der Schaltplan des Gehirns unser Ich?

Das Konnektom – Erklärt der Schaltplan des Gehirns unser Ich? „Das Konnektom ist ein mutiges Buch. Sebastian Seung scheut sich nicht, auch in Bereiche vorzudringen, in denen sich viele andere Wissenschaftler eher unwohl fühlen. Er untersucht die These, dass es die Gesamtheit der neuronalen Verbindungen ist, die bestimmt, wer wir sind, in all ihren Facetten, und er tut dies mit außergewöhnlicher Einsicht und einem breiten neurowissenschaftlichen Verständnis.“ Winfried Denk, Max-Planck-Institut für Medizinische Forschung, Heidelberg Stehen wir am Beginn einer wissenschaftlichen Revolution? Wird es den Hirnforschern in absehbarer Zeit gelingen, die Gesamtheit aller Verschaltungen in unserem Denkorgan zu entschlüsseln? Und werden sie damit das Geheimnis unseres Denkens und Fühlens lüften, unser Ich und unser Bewusstsein erklären können? Sebastian Seung ist einer der Vordenker der neuen Disziplin der Konnektomik. Lassen Sie sich von ihm auf eine spannende Reise in die Tiefen Ihres Gehirns und in die Zukunft der Hirnforschung entführen. „Ein Meilenstein, wunderbar geschrieben. Kein anderer Forscher ist so tief in den Gehirndschungel eingedrungen und taucht nun wieder auf, um uns dessen Geheimnisse kundzutun.“ David Eagleman, Autor von „Inkognito“ „Die Konnektomik blüht gerade als ein eminent wichtiges und aufregendes Forschungsfeld auf. Sebastian Seung nimmt Sie an die Hand und zeigt Ihnen, warum das so ist. Das Konnektom ist ein ungemein spannendes Buch – und es sollte von jedem gelesen werden, der von sich behauptet, über das Wesen des Lebens nachzudenken.“ Michael Gazzaniga, Autor von „Die Ich-Illusion“ und „Wann ist der Mensch ein Mensch?“ „Seung argumentiert intelligent und eindrücklich, dass das Selbst in der Gesamtheit der Verschaltungen des Gehirns zu finden ist.“ Christof Koch, Autor von „Bewusstsein“, in „Nature“ „Seungs bemerkenswerte Klarheit der Darstellung beweist sich darin, dass er den Leser mit seinem Enthusiasmus mitreißt, wenn er von den Grundlagen der Neurowissenschaften zu den entferntesten Sphären des Hypothetischen fortschreitet und dabei eine spektakulär illustrierte riesige Karte des menschlichen Universums skizziert.“ New York Times „Eine elegante Einführung in unsere Kenntnisse über die Organisation unseres Gehirns und wie es wächst, seine Neurone verschaltet, seine Umgebung wahrnimmt, sich verändert oder repariert und Informationen speichert.“ Washington Post _____ Sebastian Seung hat theoretische Physik an der Harvard University studiert und ist heute Professor of Computational Neuroscience and Physics am Massachusetts Institute of Technology (MIT), Forscher am Howard Hughes Medical Institute und externes wissenschaftliches Mitglied des Max-Planck-Instituts für Medizinische Forschung in Heidelberg. Er hat wichtige Beiträge zur Erforschung der Künstlichen Intelligenz und in den Neurowissenschaften geleistet. Seine Forschungsergebnisse sind in führenden Wissenschaftsjournalen erschienen, darüber hinaus publiziert er in der New York Times, Technology Review und im Economist. _____ Der kühne und aufregende Versuch, das Gehirn endgültig zu verstehen Wir wissen, dass jeder Mensch einzigartig ist, doch der Wissenschaft fällt es schwer, genau zu bestimmen, wo diese Einzigartigkeit sitzt. In unseren Genen? Im Bau unseres Gehirns? Unsere Genausstattung mag unsere Augenfarbe festlegen, ja sogar Aspekte unserer Persönlichkeit. Doch auch unsere Freundschaften, unsere Fehler und unsere Leidenschaften prägen uns und machen uns zu dem, was wir sind. Die Frage ist: wie? Sebastian Seung, Professor am Massachusetts Institute of Technology, hat sich auf die Suche nach der biologischen Basis unserer Identität begeben. Seiner Überzeugung nach verbirgt sie sich im Muster der Verbindungen zwischen den Neuronen im Gehirn, das sich im Laufe unseres Lebens, wenn wir wachsen und lernen, allmählich verändert. Im Konnektom, wie man diesen Verschaltungsplan des Gehirns nennt, trifft unser genetisches Erbe sich mit unserer Lebenserfahrung – hier kommen Anlage und Umwelt zusammen. Seung stellt uns die engagierten Forscher vor, die die Verbindungen des Gehirns Neuron um Neuron, Synapse um Synapse kartieren. Es ist ein monumentales Unterfangen – das wissenschaftliche Äquivalent der Mount-Everest-Besteigung –, doch wenn es erfolgreich ist, könnte es die Grundlagen von Persönlichkeit, Intelligenz und Gedächtnis und vielleicht sogar psychischer Störungen erhellen. Viele Forscher vermuten, dass Menschen mit Magersucht, Autismus oder Schizophrenie „anders verschaltet“ sind, aber niemand kann bisher Sicheres darüber sagen. Die Verschaltung des Gehirns ist erst unzureichend

geklärt. In klarer und erfrischender Sprache beschreibt Seung die erstaunlichen technischen Fortschritte, die uns bald helfen werden, Konnektome zu kartieren. Er geht auch der Frage nach, ob diese Karten uns eines Tages erlauben könnten, unser Gehirn in einem Computer „hochzuladen“ und damit eine Art von Unsterblichkeit zu erlangen. Das Konnektom ist der Bericht über ein faszinierendes Abenteuer, voller Leidenschaft erzählt und an der vordersten Front der Forschung. Das Buch präsentiert eine kühne wissenschaftliche und technische Vision mit dem Ziel, endlich zu verstehen, was uns zu dem macht, was wir sind. Willkommen in der Zukunft der Neurowissenschaften. _____ Umschlaggestaltung unter Verwendung einer „Traktographie“ von © Thomas Schultz, MPI für Intelligente Systeme, Tübingen.

Handbuch Arbeitssoziologie

Das Buch gibt einen Überblick über die bisherigen Entwicklungen und den gegenwärtigen Stand zentraler Themenbereiche der Arbeitssoziologie. Das Handbuch vermittelt grundlegendes Wissen und gibt wichtige Forschungsbereiche und Diskurse der Arbeitssoziologie wieder. Theoriebestände und empirische Ergebnisse werden aufbereitet, um wesentliche Konzepte und Perspektiven des Faches erkennbar zu machen. Gerade in der gegenwärtigen Phase tiefgreifender Umbrüche in den Formen und Erscheinungsweisen von Arbeit ist ein Blick auf den breiten Bestand von Theorien, Konzepten und Begriffen sowie empirischen Befunden eine wichtige Grundlage für Ausbildung, Forschung und Praxis. Aus dieser Perspektive werden in den Beiträgen gegenwärtige Entwicklungen von Arbeit beschrieben, aktuelle Konzepte für deren Analyse vorgestellt und neue Herausforderungen für die Forschung umrissen.

A Quick Guide to Data Mining with Weka and Java using Weka

This technical book aim to equip the reader with Weka, Data Mining in a fast and practical way. There will be many examples and explanations that are straight to the point. Contents 1. Introduction (What is data science, what is data mining, CRISP DM Model, what is text mining, three types of analytics, big data) 2. Getting Started (INstall Weka) 3. Prediction and Classification (Prediction and Classification) 4. Machine Learning Basics (KMeans Clustering, Decision Tree, Naive Bayes, KNN, Neural Network) 5. Data Mining with Weka (Data Understanding using Weka, Data Preparation using Weka, Model Building and Evaluation using Weka) 6. Java interact Weka (Use Java to use Weka, in order to develop your own prediction or classification system) 7. Conclusion This book has been taught at Udemy and EMHAcademy.com. Use the following Coupon to get the Udemy Course at $11.99: https://www.udemy.com/machine-learning-with-java-and-weka/?couponCode=SPECIALCOUPON

Nationalökonomie und Statistik

This module offers a simple way yet interesting approach in applying data mining tools such as Waikato Environment for Knowledge Analysis (WEKA), an open source machine learning software. The practical hands-on of the tools and techniques for machine learning used in data mining is described step-by-step in five sub-modules. For each sub-module, a description about the topic is given for a better understanding. Inside, you'll learn about preparing the data, data cleaning, modelling, and results evaluation. The module ends by providing a check-list activity and common error that you may encounter. Three case studies are demonstrated from different sources of dataset using the features offered in WEKA. The module would be a good source for hands-on-introduction to machine learning algorithms with no extensive background in mathematic required. Predictive Analytics Applications with WEKA is an accessible introduction to this rapidly growing industry and suit for any students and researchers looking for a simple predictive analytics exercise.

Predictive Analytics Applications with WEKA

Machine learning is not just for professors. Weka is a top machine learning platform that provides an easy-to-use graphical interface and state-of-the-art algorithms. In this Ebook, learn exactly how to get started with

applied machine learning using the Weka platform.

Machine Learning Mastery With Weka

\"Applied Data Mining with Weka\" \"Applied Data Mining with Weka\" is a comprehensive and authoritative guide designed for professionals and advanced students seeking a rigorous yet practical exploration of modern data mining techniques through the versatile Weka platform. The book lays a solid foundation with an in-depth discussion of data mining principles, essential paradigms, and the integration of mining tasks within larger data science workflows. Readers are systematically introduced to the taxonomy of core data mining activities, challenges inherent to data-driven discovery, and the metrics underpinning quality, interpretability, and reproducibility. Diving deeply into Weka, the book details its modular architecture, diverse user interfaces, data connectivity, and the rapidly evolving ecosystem enriched by community-driven extensions. Each stage of the data mining process is carefully examined, from robust data preparation and feature engineering to state-of-the-art supervised and unsupervised algorithms, including classification, regression, clustering, association analysis, and dimensionality reduction. The narrative extends to specialized domains such as text mining, sequence analysis, anomaly detection, ensemble learning, and real-time mining, highlighting practical solutions for both traditional and emerging analytical challenges. Complemented by hands-on project walkthroughs—covering customer segmentation, sentiment analysis, fraud detection, and time series forecasting—this work not only elucidates programming and automation via Weka's Java APIs but also addresses ethical considerations, model governance, and the operationalization of data mining pipelines in production environments. With a forward-looking survey of trends like AutoML and federated learning, \"Applied Data Mining with Weka\" is an indispensable reference for leveraging Weka’s capabilities to build transparent, reproducible, and impactful analytical solutions.

Applied Data Mining with Weka

An accessible guide to machine learning principles for programmers. Features hands-on example projects, real-world case studies, and easy-to-understand explanations. Practical Machine Learning is a clear, hands-on introduction to machine learning written for programmers -- no extensive background in math required. You'll learn the fundamentals of machine learning and how to use WEKA, a suite of free, open-source tools to build and test \"smart\" algorithms and incorporate them into your code. The book breaks down the machine learning process, including conducting litmus tests to develop a strategy, preparing your data, preprocessing, and increasing the performance of your algorithm through data normalization. You'll test your new skills with three hands-on experiments: running algorithms that rank customer applications, determine whether a website is malicious, and suggest recommended products. Rather than wallowing in theory, the book is packed with real-world examples, code snippets, and case-studies that put each lesson into practice. Wrapping up with an overview of how to identify Big Data and manage extremely large datasets, Practical Machine Learning is an accessible introduction to this rapidly growing industry, perfect for any programmer looking to apply its principles to their work.

Weka

Practical Machine Learning

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