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Website-Konzeption Digital Image Analysis Computergestützte Audio- und Videotechnik Digitale Film- und Videotechnik Information Hiding Implementing a Digital Asset Management System Kompendium der Mediengestaltung für Digital- und Printmedien Bioinformatics Using Computational Intelligence Paradigms Dreamweaver CS3 Sony A7R V Easy Statistics for Food Science with R Panasonic LUMIX FZ82D Adobe Photoshop CS3 Elektronische Medien Adobe Photoshop CS4 Proceedings IWISP '96, 4–7 November 1996; Manchester, UK Business Technology Iii' 2005 Ed. Digital Signal Processing Encyclopedia of Image Processing People fotografie on Location Digital Video and HDDie Fährte des Lichts JPEG2000 Standard for Image Compression Olympus E-510 Computational and Information Science Internet Photo Magazin Webdesign mit Photoshop 7 Internet Untuk Segala Kebutuhan Kompendium Medieninformatik Softwareentwicklung Image-Based Rendering Canon EOS Rebel T2i / 550D For Dummies Advances in Software Engineering Digital Signal Processing Codierung Fotos, Filme, Musik mit Windows Vista Compression for Multimedia Information Hiding Foto-Drohnen Jens Jacobsen Walter Kropatsch Dieter Stotz Ulrich Schmidt Andreas Pfitzmann Jens Jacobsen Joachim Böhringer Udo Seiffert Susanne Rupp Kyra Sänger Abbas F.M. Alkarkhi Michael Gradias Heico Neumeyer Rüdiger Kays Heico Neumeyer Basil G. Mertzios EduGorilla Prep Experts Phillip A. Laplante Jens Petersen Charles Poynton Ralf Herold Tinku Acharya Wolf-Dieter Roth Jun Zhang Ignatz Schels Michael Baumgardt Roland Schmitz Albin Meyer Heung-Yeung Shum Julie Adair King Haeng-kon Kim Li Tan Wilfried Dankmeier Günter Born Irina Bocharova Kaushal Solanki Uwe Schneider

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Codierung Fotos, Filme, Musik mit Windows Vista Compression for Multimedia
 Information Hiding Foto-Drohnen Jens Jacobsen Walter Kropatsch Dieter Stotz Ulrich
 Schmidt Andreas Pfitzmann Jens Jacobsen Joachim Böhringer Udo Seiffert Susanne
 Rupp Kyra Sänger Abbas F.M. Alkarkhi Michael Gradias Heico Neumeyer Rüdiger Kays
 Heico Neumeyer Basil G. Mertzios EduGorilla Prep Experts Phillip A. Laplante Jens
 Petersen Charles Poynton Ralf Herold Tinku Acharya Wolf-Dieter Roth Jun Zhang Ignatz
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the human visual system as a functional unit including the eyes the nervous system and the corresponding parts of the brain certainly ranks among the most important means of human information processing the efficiency of the biological systems is beyond the capabilities of today's technical systems even with the fastest available computer systems however there are areas of application where digital image analysis systems produce acceptable results systems in these areas solve very specialized tasks they operate in a limited environment and high speed is often not necessary several factors determine the economical application of technical vision systems cost speed exhibility robustness functionality and integration with other system components many of the recent developments in digital image processing and pattern recognition show some of the required achievements computer vision enhances the capabilities of computer systems in autonomously collecting large amounts of data in extracting relevant information in perceiving its environment and in automatic or semiautomatic operation in this environment the development of computer systems in general shows a steadily increasing need in computational power which comes with decreasing hardware costs

dies ist eine leicht verständliche einföhrung für moderne audio und videotechnik im verbund mit computersystemen der leser mit technischem grundverständnis wird mit dem klar strukturierten stoff einen leichten einstieg in komplexe zusammenhänge finden die vielen technischen tipps helfen jedoch auch erfahrenen profis weiter aus dem inhalt tontechnik grundlagen abtastung und digitalisierung räumliches hören methoden der datenkompression midi standard und signale digitale audiomessstechnik videotechnik grundlagen hochauflösende videotechnik und 3d technik genlock chromakeying schnittsysteme animationen dateienformate dieter stotz jahrgang 1954 hat jahrelange erfahrung in service und support für videografik und animation und ist autor einiger bücher der audio und videotechnik er arbeitet heute als entwickler für elektronische messsysteme

der ideale einstieg in die film und videotechnik dieses buch beinhaltet die umfassende darstellung der professionellen digitalen video und fernsehtechnik auch die digitale film und kinotechnik wird vom analogen grundprinzip bis hin zu digitaler raw aufzeichnung

digitalen kinokameras digitaler postproduktion 8k projektion oder immersiven audioformaten beleuchtet der fokus des werks liegt dabei auf aktuellen technologien und systemen die ausfuehrungen basieren sowohl auf den persönlichen erfahrungen von prof dr ulrich schmidt und johannes schmidt als auch auf den fachlichen definitionen und standards der smpte oder itu ausgehend von den grundlagen des digitalen videosignals der datenreduktion der digitalen schnittstellen und vernetzungstechnologien werden wesentliche techniefelder der heutigen film und videoproduktion umfassend erschlossen dieses buch bildet damit sowohl einen hervorragenden einstieg für alle diejenigen die sich neu mit diesem fachbereich beschäftigen als auch ein umfassendes nachschlagewerk für berufserfahrene die sich im hinblick auf aktuelle technologien weiterbilden möchten die 4 auflage von digitale film und videotechnik wurde vollständig überarbeitet und erweitert neben neuen kapiteln zur menschlichen wahrnehmung sowie bildwiedergabe über displays und projektion sind dabei umfangreiche neue abschnitte zu uhd hdr und hfr sowie ausführliche erläuterungen zu ip basierter videosignalübertragung durch smpte st 2110 ndi oder srt hinzugekommen ebenfalls erweitert und überarbeitet wurden unter anderem die passagen zur digitalen kino kamera videodatenreduktion datenspeicherung digitaler kinotechnik oder postproduktion

although the animal may be as nietzsche argued ahistorical living completely in the present it nonetheless plays a crucial role in human history the fascination with animals that leads not only to a desire to observe and even live alongside them but to capture or kill them is found in all civilizations the essays collected in beastly natures show how animals have been brought into human culture literally helping to build our societies as domesticated animals have done or contributing often in problematic ways to our concept of the wild the book begins with a group of essays that approach the historical relevance of human animal relations seen from the perspectives of various disciplines and suggest ways in which animals might be brought into formal studies of history differences in species and location can greatly affect the shape of human animal interaction and so the essays that follow address a wide spectrum of topics including the demanding fate of the working horse the complex image of the american alligator at turns a dangerous predator and a tourist attraction the zoo gardens of victorian england the iconography of the rhinoceros and the preference it reveals in society for myth over science relations between humans and wolves in europe and what we can learn from society s enthusiasm for political animals such as the pets of the american presidents and the soviet union s space dogs taken together these essays suggest new ways of looking not only at animals but at human history contributors mark v barrow jr virginia tech peter edwards roehampton university kelly enright rutgers university oliver hochadel universitat autònoma de barcelona uwe lübken rachel carson center munich garry marvin roehampton university clay mcshane northeastern university amy nelson

virginia tech susan pearson northwestern university helena pycior university of wisconsin milwaukee harriet ritvo massachusetts institute of technology nigel rothfels university of wisconsin milwaukee joel a tarr carnegie mellon university mary weismantel northwestern university

learn how the top cg film computer game and web development companies have saved significant time and money on their projects by optimizing digital asset management systems and streamlining production processes also included is a product overview with 28 detailed descriptions of software solutions including screenshots and prices as well as a practical assessment of their suitability for different industries project sizes

sechs jahre nach erscheinen des kompendiums liegt mit der 3 auflage ein gestalterisch und inhaltlich generalüberholtes buch vor die verwendung einer zeitgemäßen schrift sowie die zweispaltige anordnung der texte gewährleisten eine verbesserung der lesbarkeit und leseführung eine kennfarbe pro kapitel und farbige register am seitenrand erleichtern das auffinden einer gesuchten textstelle screenshots grafiken und abbildungen wurden aktualisiert neben der gestalterischen modernisierung wurden neue trends der medienbranche wie die wachsende bedeutung des digitaldrucks die novellierung des medienrechts oder die anforderungen an barrierefreies design berücksichtigt der anteil an printmedien wurde erhöht um der tatsache rechnung zu tragen dass die bedeutung der digitalmedien in der industrie derzeit rückläufig ist dieses standardwerk zur mediengestaltung enthält zu jedem kapitel Übungsaufgaben und lösungen wodurch es seinem anspruch noch besser gerecht wird ein lehr und arbeitsbuch zu sein

bioinformatics and computational intelligence are undoubtedly remarkably fast growing fields of research and real world applications with enormous potential for current and future developments bioinformatics using computational intelligence paradigms contains recent theoretical approaches and guiding applications of biologically inspired information processing systems computational intelligence against the background of bioinformatics this carefully edited monograph combines the latest results of bioinformatics and computational intelligence and offers promising cross fertilization and interdisciplinary work between these growing fields

die sony 7r v überzeugt mit ihrem sensor einer schnellen sowie noch genaueren motiverkennung der breathing compensation und ihrer enormen verarbeitungsgeschwindigkeit lernen sie das gesamte potenzial dieser anspruchsvollen hybridkamera beherrschen für erstklassige foto und videoergebnisse auch in schwierigen situationen systematisch stellen ihnen die professionellen fotografen bedienung sowie technik der 7r v vor und erläutern deren optimale handhabung anhand anschaulicher beispiele gespickt mit hilfreichen tipps aus der praxis sie

erfahren detailliert wie sie farben optimieren den augen af gezielt einsetzen schnelle serien aufnehmen ihre bilder direkt mit anderen teilen und vieles mehr kreativität und freude kommen dabei garantiert nicht zu kurz erfahrenen fotografen über die schulter geschaut autofokus belichtung und spezielle funktionen im detail menü und einstellungstipps für den sofortigen einsatz aus dem inhalt neue funktionen der 7r v in der Übersicht informationen in monitor und sucher die intelligente automatik der 7r v halbautomatische programme für jede situation fotografieren mit manueller belichtung Grundlagen des professionellen filmens videoaufnahmen mit motivverfolgung belichtungsmessung im detail objekte perfekt fokussieren und tracken ki gestützte motiverkennung farben kontrollieren und farbprofil erstellen die wirkung der kreativmodi filmen mit fotoprofilen entfesseltes blitzen in der praxis software wlan und gps die kamera per smartgerät fernsteuern

easy statistics for food science with r presents the application of statistical techniques to assist students and researchers who work in food science and food engineering in choosing the appropriate statistical technique the book focuses on the use of univariate and multivariate statistical methods in the field of food science the techniques are presented in a simplified form without relying on complex mathematical proofs this book was written to help researchers from different fields to analyze their data and make valid decisions the development of modern statistical packages makes the analysis of data easier than before the book focuses on the application of statistics and correct methods for the analysis and interpretation of data r statistical software is used throughout the book to analyze the data contains numerous step by step tutorials help the reader to learn quickly covers the theory and application of the statistical techniques shows how to analyze data using r software provides r scripts for all examples and figures

alle funktionen einstellungen im griff für perfekte ergebnisse detaillierte anleitungen praktische beispiele tipps des profis die panasonic lumix dc fz82d ist eine außergewöhnlich vielseitige immer dabei kamera die besonders durch ihren zoombereich von 20 mm superweitwinkel bis 1200 mm supertele überzeugt egal ob sie etwas ganz nahes oder ganz fernes fotografieren möchten halten sie ihre motive in beeindruckender qualität fest michael gradias erklärt wie das selbst in schwierigen situationen gelingt schritt für schritt stellt ihnen der autor die bedienung der kamera und deren funktionen vor sie möchten sich in aufregenden momenten auf einen speziellen modus verlassen kein problem in diesem buch erfahren sie welche programme wann und warum geeignet sind sie werden gerne selbst kreativ gut nachvollziehbare anleitungen und beispiele zeigen welche einstellungen zu foto und videoergebnissen führen die begeistern freuen sie sich auf viele praktische profitipps und inspirationen aus dem inhalt die lumix fz82d kennenlernen grundlegende kamerabedienung belichtungskorrekturen vornehmen fotografieren im scn modus

optimale menüeinstellungen methoden der belichtungsmessung präziser fokus in allen situationen erweiterte lumix fz82d funktionen passenden antriebsmodus wählen aufnahmeinformationen nutzen personalisierung bis ins detail raw verarbeitung in der kamera filmen mit der lumix fz82d fototipps für viele aufnahmesituationen silkypix developer studio 8 se

the papers in this volume focus on the most modern and critical aspects of image and signal processing and related areas that have a significant impact in our society the papers may be categorized in the following four major parts coding and compression image coding image subband wavelet coding and representation video coding motion estimation and multimedia image processing and pattern recognition image analysis edge detection segmentation image enhancement and restoration adaptive systems colour processing pattern and object recognition and classification fast processing techniques computational methods vlsi dsp architectures theory and applications identificiation and modelling multirate filter banks wavelets in image and signal processing biomedical and industrial applications the authors of these exceptionally high quality papers form an interesting group originating from the five continents representing 33 countries

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the encyclopedia of image processing presents a vast collection of well written articles covering image processing fundamentals e g color theory fuzzy sets cryptography and applications e g geographic information systems traffic analysis forgery detection image processing advances have enabled many applications in healthcare avionics robotics natural resource discovery and defense which makes this text a key asset for both academic and industrial libraries and applied scientists and engineers working in any field that utilizes image processing written by experts from both academia and industry it is structured using the acm computing classification system ccs first published in 1988 but most recently updated in 2012

quot digital video and hdtv algorithms and interfaces covers the theory and engineering of digital video systems in a manner that is equally accessible to video engineers and computer graphics practitioners it provides succinct and accurate treatment of standard definition television sdtv high definition television hdtv and compression systems quot book jacket

eine über 400 jährige forschungstradition sah in verschiedenen legendenumwobenen felsen der oberlausitz göttertempel und opferaltäre für die verehrung der sonne man vermutete sogar eine ähnliche bedeutung wie stonehenge in england 2007 erhielten die alten forschungen neuen antrieb ein sonnenbeobachtungsphänomen wurde entdeckt durch reguliert anmutende sichtöffnungen der felsen strahlte das sonnenlicht zu den terminen der sonnenwenden und tagundnachtgleichen zur erforschung des phänomens gründete die sternwarte bruno h bürgel in sohland an der spree eine fachgruppe und rief das archäoastronomische forschungsprojekt götterhand ins leben mit entdeckern ähnlicher kalenderastronomischer sonnenphänomene in ganz europa und darüber hinaus wurde ein forschungsnetzwerk geknüpft die vorliegende arbeit berichtet davon und durchleuchtet die menschheitsgeschichte nach indizien für die wahrscheinlichkeit solcher heiligtümer sie enthält quellenstudien zur chronologie der religion astronomie archäologie archäoastronomie und der forschungstradition sonnenheiligtümer der oberlausitz sowie kalenderastronomische objektanalysen ergebnisse praktischer beobachtungen und den index saxum solarum

jpeg2000 standard for image compression presents readers with the basic background to this multimedia compression technique and prepares the reader for a detailed understanding of the jpeg2000 standard using both the underlying theory and the principles behind the algorithms of the jpeg2000 standard for scalable image compression it introduces the vlsi architectures and algorithms for implementation of the jpeg2000 standard in hardware not available in the current literature an important technology for a number of image processing applications and devices such as digital camera color fax printer and scanners

das kompakte handbuch zu ihrer kamera mit 210 farbigen abbildungen es zeigt ihnen was alles in ihrer olympus e 510 steckt und wie sie die kamera in der fotopraxis sicher und zielführend bedienen der autor erklärt nicht nur den nutzen der vielen funktionen menüs und programme der olympus e 510 sondern führt sie auch in die grundlegenden themen schärfe belichtung und lichteinsatz ein und auch beim aufbau ihres eigenen dslr system lässt sie das buch mit seinem umfangreichen zubehörratgeber nicht im stich hierbei handelt es sich um das originalmanuskript mit zusätzlichen kapiteln

the 2004 international symposium on computational and information sciences cis 2004 aimed at bringing researchers in the area of computational and formation sciences together to exchange new ideas and to explore new ground the goal of the conference was to push the application of modern computing technologies to science engineering and information technologies to a new level of sophistication and understanding theinitialideatoorganizesuchaconferencewithafocusoncomputationand applicationswasoriginatedbydr junzhang duringhisvisittochinainaugust 2003 in consultation with a few friends including dr jing liu at the chinese academy of sciences

dr jun hai yong at tsinghua university dr geng yang at nanjing university of posts and communications and a few others after several discussions with dr ji huanhe it was decided that donghua university would host cis 2004 cis 2004 attempted to distinguish itself from other conferences in its phasis on participation rather than publication a submitted paper was only reviewed with the explicit understanding that if accepted at least one of the authors would attend and present the paper at the conference it is our lief that attending conferences is an important part of one s academic career through which academic networks can be built that may bene t one s academic life in the long run we also made every e ort to support graduate students in attending cis 2004 in addition to set reduced registration fees for full time graduate students we awarded up to three prizes for to the best student papers at cis 2004 students whose papers were selected for awards were given cash prizes plus a waiver of registration fees

das kompendium medieninformatik bietet sowohl dem studierenden der medieninformatik als auch praktikern einen leitfaden durch das beschleunigt wachsende gebiet der medieninformatik der schwerpunkt liegt dabei auf den informatik aspekten d h ziel ist es fortgeschrittene anwendungen der informatik im bereich der medien aufzuzeigen der vorliegende band beschäftigt sich mit mediennetzen vorgestellt werden die techniken die beim transport von informationen durch unterschiedliche netze zum einsatz kommen schwerpunkte bilden also die verpackung der information z b durch kompressionsverfahren und der transport digitalisierter information die nächste frage die sich beim transport von information stellt ist die nach der mediensicherheit verfahren wie digitale wasserzeichen und digital rights management systeme werden erläutert schließlich werden verschiedene multimedienetze und insbesondere mobile netze präsentiert

ein kompaktes nachschlagewerk geballt mit viel wissen dieser praxisorientierte kompass liefert informationen über das gesamte themenspektrum der softwareentwicklung projektmanagement requirements engineering softwarearchitektur programmierung und qualitätssicherung ob es sich um ein projekt im bereich desktop mobile iot oder machine learning handelt on premises oder in der cloud es finden sich viele tipps und tricks für die tägliche arbeit dieses buch unterstützt entscheidungsträger bei der wahl von hardware plattformen programmiersprachen tools und librarys es hilft weiter bei fragen zur sicherheit zum monitoring des produktiven systems und zur dokumentation in der praxis immer wiederkehrende bewährte muster werden kurz und bündig erklärt erfahrungen mit verschiedenen vorgehensmodellen werden diskutiert vom wasserfall bis zu agilen prozessen sowohl berufseinsteiger als auch erfahrene professionals finden hier konkrete lösungsideen für die herausforderungen im berufsalltag und hinweise zu weiterführender literatur

image based rendering examines the theory practice and applications associated with image based rendering and modeling as leading researchers in the field the authors combine their unique experiences in computer graphics computer vision and signal processing to address the multidisciplinary nature of ibr research the topics covered vary from ibr basic concepts and representations on the theory side to signal processing and data compression on the practical side several ibr systems built to date are examined rather than focusing on 3d modeling aspects which have been extensively treated elsewhere in the vision literature the book focuses primarily on ibr one of the only titles devoted exclusively to ibr this book is intended for researchers professionals and general readers interested in the topics of computer graphics computer vision image process and video processing advanced level students in eecs studying related disciplines will be able to seriously expand their knowledge about image based rendering

the straightforward guide to the new canon eos rebel t2i 550d popular tech blog gizmodo com called the canon eos rebel t2i 550d an incredible camera everything a first dslr should be with 1080p digital video capability and an 18 megapixel sensor that improves low light shooting all for under 900 the accolades are well earned and for less than 30 you can learn how to maximize your digital photography experience packed with more than 300 color photos and 100 color screen captures throughout this beginner book walks you through the camera s controls features and shooting modes if you re new to the canon eos rebel t2i 550d this fun and friendly guide shifts you out of automatic mode and helps you shoot memorable digital photos aimed at first time dslr users looking for a guide that clearly and patiently explains the features and controls of the canon eos rebel t2i 550d explores the on board controls and situational shooting addresses using live view and playback modes explains dialing in exposure and lighting controls details how to edit print post online and other ways to share images spells out how to manipulate focus and color controls canon eos rebel t2i 550d for dummies delivers a straightforward look through the lens of your dslr

welcome to the proceedings of the 2010 international conference on advanced software engineering and its applications aseaa 2010 one of the partnering events of the second international mega conference on future generation information technology fgit 2010 aseaa brings together researchers from academia and industry as well as practitioners to share ideas problems and solutions relating to the multifaceted aspects of software engineering including its links to computational sciences mathematics and information technology in total 1 630 papers were submitted to fgit 2010 from 30 countries which includes 175 papers submitted to aseaa 2010 the submitted papers went through a rigorous reviewing process 395 of the 1 630 papers were accepted for fgit 2010 while 40 papers were accepted for aseaa 2010 of the 640 papers were selected for the special fgit 2010 volume published by springer in the lncs series 32 papers are

published in this volume and 2 papers were withdrawn due to technical reasons we would like to acknowledge the great effort of the ase 2010 international advisory board and members of the international program committee as well as all the organizations and individuals who supported the idea of publishing this volume of proceedings including sersc and springer also the success of the conference would not have been possible without the huge support from our sponsors and the work of the chairs and organizing committee

digital signal processing fundamentals and applications third edition not only introduces students to the fundamental principles of dsp it also provides a working knowledge that they take with them into their engineering careers many instructive worked examples are used to illustrate the material and the use of mathematics is minimized for an easier grasp of concepts as such this title is also useful as a reference for non engineering students and practicing engineers the book goes beyond dsp theory showing the implementation of algorithms in hardware and software additional topics covered include adaptive filtering with noise reduction and echo cancellations speech compression signal sampling digital filter realizations filter design multimedia applications over sampling etc more advanced topics are also covered such as adaptive filters speech compression such as pcm μ law adpcm and multi rate dsp over sampling adc subband coding and wavelet transform covers dsp principles with an emphasis on communications and control applications includes chapter objectives worked examples and end of chapter exercises that aid the reader in grasping key concepts and solving related problems provides an accompanying website with matlab programs for simulation and c programs for real time dsp presents new problems of varying types and difficulties

es stimmt sie haben es wirklich nicht leicht unsere hightech kumpels handy cd mp3 player pc unix nt server lan w an und alle die anderen klar daß sie die ihnen anvertrauten daten und informationen mit größter sorg falt behandeln müssen und nicht die kleinste verfälschung daran zulassen dürfen und das obwohl ihnen fortwährend üble störungen das leben vergällen und schlimme fehler erzeugen wenn dem tatsächlich so ist wie werden sie sich vielleicht fragen gelingt es dann doch unsere hohen ansprüche zu erfüllen oder ist ihnen manchmal nicht unwohl daß sie die vielen verschiedenen pa wörter und pins für ihre euroscheckkarte ihren internet provider für s home banking für den zugang zum pc netz ihrer firma zu ihrem notebook für ihr autoradio usw immer im gedächtnis behalten müssen weil sie diese paßwörter natürlich nirgendwo aufschreiben sicherheitsbewußt wie sie sind und hätten sie gern gewußt ob sie der vertraulichkeit einer bestellung im internet viel leicht nicht von vorn herein aber doch wenigstens prinzipiell trauen können und schließlich eine freundin übergibt ihnen auf einer der guten alten disket ten die neueste version ihres buchmanuskriptes zur kritischen durchsicht vor Übergabe an den verlag es hat mittlerweile einen umfang von

mehr als 4 mil lionen zeichen auf ihren einwand daß so eine diskette doch nur etwa 1 4 millionen zeichen faßt lächelt sie überlegen murmelt etwas von zippen auf weniger als die hälfte und sie sollten sich lieber auf das lesen konzentrie ren

provides a thorough theoretical understanding of lossy compression techniques and systems plus key features applications implementation issues and design trade offs it also includes detailed comparisons of multimedia standards and their common and distinguishing features examples based on real multimedia data end of chapter review problems and the basics of lossless coding

th it is our great pleasure to present this volume of the proceedings of the 10 edition of information hiding ih 2008 the conference was held in santa barbara the ame can riviera california usa during may 19 21 2008 it was organized by three santa barbarans on fire from both industry mayachitra and academia ucsb over the years information hiding ih has established itself as a premier forum for presenting research covering various aspects of information hiding continuing the tradition this year we provide a balanced program including topics such as anonymity and privacy forensics steganography watermarking fingerprinting other hiding domains and novel applications we received a total of 64 papers from all over the globe and would like to take this opportunity to thank all the authors who submitted their paper to ih 2008 and thus contributed to the consolidation of the reputation of the conference the papers were refereed by at least three revi ers who provided detailed comments which was followed by discussion amongst the program committee members only 25 papers were selected for presentation this rigorous review process will certainly strengthen information hiding s po tion as the top forum of our community

die digitalisierung hat in den vergangenen jahren eine revolution in der arbeitswelt mit sich gebracht kein lebensbereich der nicht in irgendeiner form von dieser wandlung betroffen war von analog zu digital vollzog sich auch ein rasanter wandel im bereich der foto und videografie aber nicht nur die digitalisierung spielte hier eine rolle auch die perspektive des fotografierens sollte sich erweitern unter dem motto neue horizonte neue perspektiven erfahren sogenannte fotocopter eine rasante entwicklung weltweit allein in deutschland wird die zahl der fernbedienten fluggeräte auf rund 500 000 geschätzt früher mussten luftaufnahmen aufwendig aus einem flugzeug oder mithilfe mobiler teleskopstative etc gemacht werden die zeiten ändern sich rapide vor jahren noch waren luftbilder hunderte euros wert ein bild vom eigenheim aus der vogelperspektive wurde teuer bezahlt und goldfarben eingerahmt dafür mussten in der regel eigens ein pilot und ein fotograf ins flugzeug steigen und gemeinsam abheben doch diese exklusivität aufgrund des hohen aufwands ist vorbei die fotocopter übernehmen der mensch bleibt am boden diese art von fluggeräten findet sich mittlerweile selbst im sortiment von drogeriemärkten copter für jedermann wer weiß wo

uns das noch hinführen wird momentan zu vielen tollen luftbilddbänden und ebensolchen videos auf youtube für die keine cessna mehr vom boden abheben muss heutzutage heißt es binnen weniger minuten ready for take off dann hebt der multicopter ab bestückt mit hochwertigem kameraequipment kameras die hochauflösende fotos 4k filme oder multispektral beziehungsweise wärmebilder aufzeichnen können die qualität der bilder kann oftmals schon direkt nach der aufnahme während des flugs mithilfe der bodenstation kontrolliert werden damit man sie gegebenenfalls gleich noch einmal wiederholen kann

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From Percentage to Power: Understanding HCL Concentration Conversions

Hydrochloric acid (HCl), a strong and corrosive acid, is a crucial chemical in various industries, from metal processing to food production. Understanding its concentration is paramount for safe and effective use. Often, HCl concentration is expressed as a percentage (w/w or weight/weight percentage), indicating the mass of HCl per 100 grams of solution. However, for many chemical calculations and applications, molarity (moles of solute per liter of solution) is a more useful unit. This article will guide you through the process of converting HCl percentage to molarity, breaking down the seemingly complex calculations into manageable steps.

1. Understanding the Basics: Percentage and Molarity

Before diving into the conversion, let's define our terms: **Weight/Weight Percentage (% w/w)**: This represents the mass of HCl (in grams) present in 100 grams of the HCl solution. For example, a 37% w/w HCl solution means that 37 grams of HCl are present in 100 grams of the solution. **Molarity (M)**: Molarity describes the concentration of a solution in moles of solute per liter of solution. One mole of any substance contains Avogadro's number (6.022×10^{23}) of particles (atoms, molecules, ions). The molar mass of HCl is approximately 36.46 g/mol. This means that 36.46 grams of HCl constitute one mole of HCl.

2. The Conversion Process: A Step-by-Step Guide

Converting HCl percentage to molarity involves several steps: **Step 1: Determine the mass of HCl and the mass of the solution.** Let's assume we have 100 grams of a 37% w/w HCl solution. This means: Mass of HCl = 37 grams Mass of solution = 100 grams **Step 2: Calculate the moles of HCl.** Using the molar mass of HCl (36.46 g/mol), we can calculate the number of moles: Moles of HCl = (Mass of HCl) / (Molar mass of HCl) = 37 g / 36.46 g/mol $\approx$ 1.015 moles **Step 3: Determine the volume of the solution.** This step

requires knowing the density of the HCl solution. The density varies with the concentration; for a 37% w/w solution, the density is approximately 1.19 g/mL. We can calculate the volume using the density and mass of the solution: $\text{Volume (mL)} = (\text{Mass of solution}) / (\text{Density}) = 100 \text{ g} / (1.19 \text{ g/mL}) \approx 84.03 \text{ mL}$ Step 4: Convert the volume to liters. $1 \text{ liter} = 1000 \text{ mL}$ $\text{Volume (L)} = 84.03 \text{ mL} / 1000 \text{ mL/L} \approx 0.08403 \text{ L}$ Step 5: Calculate the molarity. $\text{Molarity (M)} = (\text{Moles of HCl}) / (\text{Volume in Liters}) = 1.015 \text{ moles} / 0.08403 \text{ L} \approx 12.07 \text{ M}$ Therefore, a 37% w/w HCl solution has a molarity of approximately 12.07 M.

3. Practical Example: Diluting Concentrated HCl

Let's say you need 1 L of a 1 M HCl solution, and you only have a 12.07 M stock solution (our 37% w/w solution from the previous example). You'd use the dilution formula: $M_1V_1 = M_2V_2$ Where: M_1 = Initial molarity (12.07 M) V_1 = Initial volume (unknown) M_2 = Final molarity (1 M) V_2 = Final volume (1 L) Solving for V_1 : $V_1 = (M_2V_2) / M_1 = (1 \text{ M} \cdot 1 \text{ L}) / 12.07 \text{ M} \approx 0.083 \text{ L}$ or 83 mL Therefore, you would carefully add approximately 83 mL of the 12.07 M HCl stock solution to enough distilled water to make a total volume of 1 L. Always add acid to water, never water to acid, to prevent splashing and potential hazards.

4. Key Takeaways

Converting HCl percentage to molarity requires knowledge of the percentage concentration, molar mass of HCl, and the density of the solution. Density is crucial for converting mass to volume. Consult reliable sources for the density corresponding to your specific HCl concentration. Always handle concentrated HCl with extreme caution, wearing appropriate personal protective equipment (PPE). Diluting HCl solutions should be done carefully and slowly, adding acid to water to prevent splashing and heat generation.

5. Frequently Asked Questions (FAQs)

1. Q: Can I use this method for other acids besides HCl? A: Yes, this general approach can be applied to other acids, but you'll need the appropriate molar mass and density for that specific acid. 2. Q: Where can I find the density of different HCl solutions? A: Chemical handbooks, material safety data sheets (MSDS), and online databases are good sources for density data. 3. Q: What if the percentage is given as weight/volume

(% w/v)? A: The calculation will be slightly different, as you'll directly use the given mass of HCl and the given volume of solution (after converting it to liters). 4. Q: Is it necessary to use the precise molar mass and density? A: Using more precise values will result in a more accurate molarity calculation. However, using approximate values often yields results sufficient for many practical purposes. 5. Q: Why is it important to know the molarity of HCl? A: Molarity is essential for stoichiometric calculations in chemical reactions involving HCl, ensuring accurate reactant ratios and product yields. It's also crucial for various analytical techniques and laboratory procedures.

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