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Distribution of Lives Practical Creativity and Innovation in Systems Engineering Human Chemistry (Volume Two) The Condensed Distribution of Lives Principles Of Renewable Energy Engineering With Worked Examples Biomechanics and Robotics Introduction to Rocket Science and Space Exploration Thermal Energy Systems World Internet Development Report 2017 Computer Algebra and Polynomials Thermal Energy Integrated Reconfigurable Manufacturing Systems and Smart Value Chain The Autonomous Revolution A Hands-On Introduction to Machine Learning Wikis For Dummies A Romp Thru Science Bubbles and Crashes A Playful Production Process Algorithmic Techniques for the Polymer Sciences Consuming History Alfresco 3 Enterprise Content Management Implementation The Fate of AI Society Smart Manufacturing Leadership Lessons with The Beatles How AI Thinks An Introduction to Search Engines and Web Navigation Firefox For Dummies SEO Web The Ecology of Games Firefall Echopra Language Grid The History and Future of Technology Microbial Resources for Sustainable Energy Education And Awareness Of Sustainability - Proceedings Of The 3rd Eurasian Conference On Educational Innovation 2020 (Ecei 2020) Agents for Games and Simulations II Advances in Visual Computing The Harnessing of Power Ascend AI Processor Architecture and Programming

Distribution of Lives 2012

the central economic story of modern time is how the united states went from equitable distributions that existed from the 1950s through 1970s to its current state of maldistribution the prevailing economic theories that financial and monetary manipulations can be corrective in spite of profound maldistribution are proven wrong here

Practical Creativity and Innovation in Systems Engineering 2018-07-27

a guide to systems engineering that highlights creativity and innovation in order to foster great ideas and carry them out practical creativity and innovation in systems engineering exposes engineers to a broad set of creative methods they can adopt in their daily practices in addition this book guides engineers to become entrepreneurs within traditional engineering companies promoting creative and innovative culture around them the author describes basic systems engineering concepts and includes an abbreviated summary of standard 15288 systems life cycle processes he then provides an extensive collection of practical creative methods which are linked to the various systems life cycle processes next the author discusses obstacles to innovation and in particular how engineers can push creative ideas through layers of reactionary bureaucracy within non innovative organizations finally the author provides a comprehensive description of an exemplary creative and innovative case study recently completed the book is filled with illustrative examples and offers effective guidelines that can enhance individual engineers creative prowess as well as be used to create an organizational culture where creativity and innovation flourishes this important book offers typical systems engineering processes that can be accomplished in creative ways throughout the development and post development portions of a system s lifetime includes a large collection of practical creative methods applicable to engineering and other technological domains includes innovation advice needed to transform creative ideas into new products services businesses and marketing processes contains references and notes for further reading in every section written for systems engineering practitioners graduate school students and faculty members of systems electrical aerospace mechanical and industrial engineering schools practical creativity and innovation in systems engineering offers a useful guide for creating a culture that promotes innovation

Human Chemistry (Volume Two) 2007-09-01

volume two begins with goethe s theories of affinities i e the chemical reaction view of human life in 1809 this is followed by the history of how the thermodynamic 1876 and quantum 1905 revolutions modernized chemistry such that affinity the force of reaction is now viewed as a function of thermodynamic free energy reaction spontaneity and quantum valency bond stabilities the composition energetic state dynamics and evolution of the human chemical bond a b is the centerpiece of this process the human bond is what gives yields and takes absorbs energy in life the coupling of this bond energy driven by periodic inputs of solar photons thus triggering activation energies and entropies connected to the dynamical work of life is what quantifies the human reaction process this is followed by topics including mental crystallization template theory lgbt chemistry chemical potential le chatelier s principle muller dispersion forces and human thermodynamics

The Condensed Distribution of Lives 2012-08

distribution of lives provides a completely new method for viewing and understanding income distribution from bottom to top it illustrates the profound adverse impact of maldistribution on individuals and the economy as a whole if you ever needed ammunition to support your case that equitable income distributions are essential for our families for our friends for our nation for our world you will find it here the prevailing economic theories that financial and monetary manipulations can be corrective in spite of profound maldistribution are proven wrong here it is perilous to presuppose that such theories can produce a thriving economy when the majority have plainly been harmed to benefit the few this is a book about answers reasons and demonstrations the unabridged distribution of lives is 345 pages excluding appendix and endnotes the condensed version 195 pages the condensed version does not include chapters 4 5 7 8 and 9 which deal primarily with economics and u s history otherwise the two are identical

Principles Of Renewable Energy Engineering With Worked Examples 2022-08-10

in this volume engineering principles of renewable energy are presented as extensions of the various subjects covered in regular engineering courses topics include solar thermal and solar pv power wind power energy storage tidal power wave power and ocean thermal energy and hydroelectric geothermal and biomass systems the comprehensive textbook brings the principles of renewable energy engineering together in a single book equivalent to that of a standard engineering title a novel feature of this unique reference is the 30 worked examples and problems highlighted at the end of each chapter numerical answers are provided for all the problems readers should be able to avoid the need to refer to several books on individual energy sources to develop a course on renewable energy

Biomechanics and Robotics 2013-12-21

the science and technology of biomechanics and robotics promise to be some of the most influential research directions of the twenty first century biomechanics and robotics goes beyond the individual areas of biomechanics robotics biomedical engineering biomechatronics and biologically inspired robotics to provide the first unified textbook on the subject it offers a big picture look at the state of the art science and technology with numerous figures references and exercises the book presents a pedagogical introduction to a variety of topics reviews historical developments and gives up to date insights on modern day biomechanics and robotics

Introduction to Rocket Science and Space Exploration 2022-12-30

the growing demand of space services for imaging mobile communication global positioning systems and disaster management life extension of satellites by fueling space station operations deflecting incoming asteroids and reducing debris from orbits requires reusable rockets the chapters in the book cover understanding of the universe history of rockets space missions satellites the principle of rocketry its design and development rocket technology the solar system the environment and protection of earth and thoughts on earth 2.0 features explores the link between universe space exploration and rocketry discusses topics such as protection of the earth from asteroids debris and global warming includes basic methodology to be adopted to design rockets for various applications covers use of multi objective optimisation to realise a system and differences in design philosophies for satellite launch examines material on environmental protection of the earth this book is aimed at senior undergraduates and professionals in aerospace engineering

Thermal Energy Systems 2023-06-30

the text provides in depth knowledge about recent advances in solar collector systems photovoltaic systems the role of thermal energy systems in buildings phase change materials geothermal energy biofuels and thermal management systems for evs in social and industrial applications it further aims toward the inclusion of innovation and implementation of strategies for co2 emission reduction through the reduction of energy consumption using conventional sources this book presents the latest advances in the field of thermal energy storage solar energy development geothermal energy and hybrid energy applications for green development highlights the importance of innovation and implementation of strategies for co2 emission reduction through the reduction of energy consumption using sustainable technologies and methods discusses design development life cycle assessment modelling and simulation of thermal energy systems in detail synergize exploration related to the various properties and functionalities through extensive theoretical and numerical modelling present in the energy sector explores opportunities challenges future perspectives and approaches toward gaining sustainability through renewable energy resources the text discusses the fundamentals of thermal energy and its applications in a comprehensive manner it further covers advancements in solar thermal and photovoltaic systems the text highlights the contribution of geothermal energy conversion systems to sustainable development it showcases the design and optimization of ground source heat pumps for space conditioning and presents modelling and simulation of the thermal energy systems for design optimization it will serve as an ideal reference text for senior undergraduate graduate students and academic researchers in the fields of mechanical engineering environmental engineering and energy engineering

World Internet Development Report 2017 2009-10-01

21st century common sense over two hundred years ago we won our freedom from king george iii yet we are again standing on lexington green with our freedom in peril just as it was in 1775 on lexington green in 1775 the threat was the divine right of kings enforced by king george iii and his peers today the danger is accepting the wannabe peers promise of security and unearned wealth in return for our freedom wannabe peers are politicians attempting to regain the power and prestige enjoyed by king george iii s peers instead of the british regulars we are faced with hordes of bureaucrats backed up by the wannabe peers make no mistake about it the bureaucrat s weapons are just as effective against you as the british muskets were against the minutemen for over 100 years the wannabe peers success has diminished our freedom and prosperity and moved america to the brink of a devastating economic crisis that may destroy the republic and undo the american revolution history proves these basic facts prosperity results from individual freedom poverty results from oppression government coercion this book is a recipe to regain our freedom and prosperity will you accept the wannabe peers empty promises of unearned wealth and security or demand that your freedom and prosperity be restored will you allow king george iii to have the last laugh if this is still the home of the brave we can restore the land of the free your call god bless america for more information on 21st century common sense go to commonsense21c.com

Computer Algebra and Polynomials 2018-09-15

an important outcome of the fourth world internet conference this book provides a comprehensive account of the status quo and trends in global internet development covering network infrastructure information technology digital economy e governance cyber security and international cyberspace governance it presents the global internet development index system to assess the internet development of various major countries and emerging economies

Thermal Energy 2015-01-20

algebra and number theory have always been counted among the most beautiful mathematical areas with deep proofs and elegant results however for a long time they were not considered that important in view of the lack of real life applications this has dramatically changed nowadays we find applications of algebra and number theory frequently in our daily life this book focuses on the theory and algorithms for polynomials over various coefficient domains such as a finite field or ring the operations on polynomials in the focus are factorization composition and decomposition basis computation for modules etc algorithms for such operations on polynomials have always been a central interest in computer algebra as it combines formal the variables and algebraic or numeric the coefficients aspects the papers presented were selected from the workshop on computer algebra and polynomials which was held in linz at the johann radon institute for computational and applied mathematics ricam during november 25-29 2013 at the occasion of the special semester on applications of algebra and number theory

Integrated Reconfigurable Manufacturing Systems and Smart Value Chain 2018-01-12

the book details sources of thermal energy methods of capture and applications it describes the basics of thermal energy including measuring thermal energy laws of thermodynamics that govern its use and transformation modes of thermal energy conventional processes devices and materials and the methods by which it is transferred it covers 8 sources of thermal energy combustion fusion solar fission nuclear geothermal microwave plasma waste heat and thermal energy storage in each case the methods of production and capture and its uses are described in detail it also discusses novel processes and devices used to improve transfer and transformation processes

The Autonomous Revolution 2018-05-30

the book develops manufacturing concepts and applications beyond physical production and towards a wider manufacturing value chain incorporating external stakeholders that include suppliers of raw materials and parts customers collaborating manufacturing companies manufacturing service providers and environmental organisations the focal point of the value chain remains as a manufacturing system and its operations while flows of parts materials and information and services across the supply value chain tiers are taken into account the book emphasises on the two innovative paradigms of reconfigurable manufacturing systems rms and the 4th industrial revolution industry 4.0 along with their incorporated development rms as a relatively new paradigm has been introduced to meet the requirements of the factories of the future which is aimed by industry 4.0 though introducing greater responsiveness and customised flexibility into production systems in which changes in product volumes and types occur regularly manufacturing responsiveness can be achieved by rms through reconfiguring the production facilities according to changing demands of products and new market conditions the book addresses challenges of mass customisation and dynamic changes in the supply chain environment by focusing on developing new techniques related to integrability scalability and reconfigurability at a system level and manufacturing readiness in terms of financial and technical feasibility of rms it demonstrates the expected impacts of an rms design on operational performance and its supply value chain in the current future manufacturing environment facing dynamic changes in the internal external circumstances in order to establish a circular economy through the rms value chain an integrated data based reconfiguration link is introduced to incorporate information sharing amongst the value chain stakeholders and facilitate grouping products into families with allocation of the product families to the corresponding system configurations with optimal product process allocation decision support systems such as multi criteria decision making tools are developed and applied for the selection of product families and optimising product process configuration the proposed models are illustrated through real case studies in applicable manufacturing firms

A Hands-On Introduction to Machine Learning 2020-02-18

we are at the dawn of the autonomous revolution a technological revolution as decisive as the agricultural and industrial revolutions autonomous machines are capable of learning and adapting faster than humans and entirely on their own and for the first time in human history we no longer require physical locations to work play shop socialize or be entertained william davidow and michael malone authors of the seminal book the virtual corporation explore the enormous implications of these developments they show why increases in productivity no longer translate into increases in the gdp how invisible algorithms control what you see and hear and much more many of the book's recommendations such as monetizing internet usage and making companies pay for personal information are likely to be controversial but this debate needs to begin now before the autonomous revolution overcomes us

Wikis For Dummies 2022-12-31

a self contained and practical introduction that assumes no prior knowledge of programming or machine learning

A Romp Thru Science 2011-02-08

corporations have finally realized the value of collaboration tools for knowledge sharing and wiki is the open source technology for creating collaborative sites as either a public site on the internet or on a private intranet site shows readers how to set up wikis in a corporate setting or on a personal site so that users can retrieve information post information and edit the content covers everything from choosing a wiki engine to administration and maintenance discusses the advantages of using wiki in a corporate environment which companies such as microsoft boeing disney and motorola have already discovered

Bubbles and Crashes 2012-07

why science we are fascinated by discovery who discovered what and how this ranges from a look outward at the night sky with scientists like kepler astronauts like neil armstrong to physicist like einstein chemists like marie curie and linus pauling an inward look at psychologists such as skinner and maslow and philosophers like plato join keating as he explores the pursuit of scientific discovery from his background as a physicist and a long career in the margins of the academic world

A Playful Production Process 2019-02-19

an interesting take on some factors that facilitate the development and bursting of bubbles in technology industries highly recommended choice financial market bubbles are recurring often painful reminders of the costs and benefits of capitalism while many books have studied financial manias and crises most fail to compare times of turmoil with times of stability in bubbles and crashes brent goldfarb and david a kirsch give us new insights into the causes of speculative booms and busts they identify a class of assets major

technological innovations that can but does not necessarily produce bubbles this methodological twist is essential only by comparing similar events that sometimes lead to booms and busts can we ascertain the root causes of bubbles using a sample of eighty eight technologies spanning 150 years goldfarb and kirsch find that four factors play a key role in these episodes the degree of uncertainty surrounding a particular innovation the attentive presence of novice investors the opportunity to directly invest in companies that specialize in the technology and whether or not a technology is a good protagonist in a narrative goldfarb and kirsch consider the implications of their analysis for technology bubbles that may be in the works today offer tools for investors to identify whether a bubble is happening and propose policy measures that may mitigate the risks associated with future speculative episodes

Algorithmic Techniques for the Polymer Sciences *2021-10-12*

how to achieve a happier and healthier game design process by connecting the creative aspects of game design with techniques for effective project management this book teaches game designers aspiring game developers and game design students how to take a digital game project from start to finish from conceptualizing and designing to building playtesting and iterating while avoiding the uncontrolled overwork known among developers as crunch written by a legendary game designer a playful production process outlines a process that connects the creative aspects of game design with proven techniques for effective project management the book outlines four project phases ideation preproduction full production and post production that give designers and developers the milestones they need to advance from the first glimmerings of an idea to a finished game

Consuming History *2014-10-27*

this new book the first of its kind examines the use of algorithmic techniques to compress random and non random sequential strings found in chains of polymers the book is an introduction to algorithmic complexity examples taken from current research in the polymer sciences are used for compression of like natured properties as found on a chain of polymers both theory and applied aspects of algorithmic compression are reviewed a description of the types of polymers and their uses is followed by a chapter on various types of compression systems that can be used to compress polymer chains into manageable units the work is intended for graduate and postgraduate university students in the physical sciences and engineering

Alfresco 3 Enterprise Content Management Implementation *2009-01-13*

non academic history public history is a complex dynamic entity which impacts on the popular understanding of the past at all levels in consuming history jerome de groot examines how society consumes history and how a reading of this consumption can help us understand popular culture and issues of representation this book analyzes a wide range of cultural entities from computer games to daytime television from blockbuster fictional narratives such as da vinci code to dna genealogical tools to analyze how history works in contemporary popular culture jerome de groot probes how museums have responded to the heritage debate and the way in which new technologies have brought about a shift in access to history from online game playing to internet genealogy he discusses the often conflicted relationship between public and academic history and raises important questions about the theory and practice of history as a discipline whilst mainly focussing on the uk the book also compares the experiences of the usa france and germany consuming history is an important and engaging analysis of the social consumption of history and offers an essential path through the debates for readers interested in history cultural studies and the media

The Fate of AI Society *2009-06-10*

how to customize use and administer this powerful open source java based enterprise cms

Smart Manufacturing *2023-09-25*

hackers who exploit binary computers become expert cybercriminals a vicious cycle of undetected attacks by criminal gangs spies and foreign enemies fuels skilled staff shortages and escalating costs ken hamer hodge explains why outdated computers cannot stop malware and how democracy is undermined by corrupt dictators digital convergence subverts yesterday s binary computer allowing advanced malware pervasive cameras misinformation ai and deep fakes to destroy our culture and civilization his inspiring examples explain the perfection of computer science that all can grasp how malware thrives and why operating systems lead to orwellian dictatorship to prevent catastrophe computer hardware must catch up with software progress preventing malware and stopping ai breakout he explains how to transition to a well engineered crime free global cybersociety how machine code achieves alonzo church s vision of networked function abstractions that avoid disaster by accelerating scientific progress plotting the path for radical improvement is vital for civilization to flourish as democratically controlled ai empowered global cyber societies ken shows how science drives high performance with high reliability for independent applications needed in a world run by superhuman software join the author as he explores the fix to computer science he shows how nations can thrive in a world run by dubious software governed by superhuman ai working as functional democracies kept safe from criminals spies and dictators

Leadership Lessons with The Beatles *2023-04-26*

the manufacturing industries remain the foundation of local regional and global economies manufacturing plants operate in dynamic markets that demand upgrading with transformational technologies for maintaining profitability competitiveness and business sustainability yet most manufacturing plants currently use technologies that are no longer competitive and industry leaders face an overwhelming array of operational challenges that require agile and enhanced transformational solutions this book offers manufacturers

effective strategies and tools for the adoption and implementation of advanced operational technologies to ensure long term innovation efficiency and profitability covers advanced automation integration in manufacturing including digitization ai machine learning iiot and cybersecurity describes innovation development and integration of control technologies for sustainable manufacturing explains how to upgrade existing manufacturing plants for the global market shows how to apply emerging technologies including asset optimization and process integration for product lifecycle improvements plant operation and maintenance enhancement and supply chain integration this book serves as a strategic guide to applying advanced operational technologies for engineers industry professionals and management in the manufacturing sector

How AI Thinks 2022-05-03

leadership has gone through many changes in the last couple of decades we have realized that outstanding leadership is not about being authoritarian and exercising control it is not only about the intelligence quotient iq but also about emotional intelligence to be an exceptional leader you need several essential skills all of which you can learn the skills are nuanced with emotional intelligence which you can gain this book is unique the author weaves leadership ideas with the song titles of the beatles making this book fun playful thoughtful and valuable each chapter is organized with the key message on a leadership attribute prompted by a beatles song title tips on becoming better on the topic a practice suggestion questions to ask yourself to think about the message and resources for more reading the author begins each chapter with how and why she chose the song and includes fun facts it s an engaging book that blends the words of perhaps the greatest rock band ever the beatles with the basic principles for becoming a better leader

An Introduction to Search Engines and Web Navigation 2024-02-08

the 2 times bestseller artificial intelligence is going to have a massive impact on everyone s lives an accessible and sensible read that helps demystify ai deborah meaden entrepreneur and star of dragon s den nigel toon is a visionary leader in the field of artificial intelligence a must read marc tremblay distinguished engineer microsoft those who understand how ai thinks are about to win big we are used to thinking of computers as being a step up from calculators very good at storing information and maybe even at playing a logical game like chess but up to now they haven t been able to think in ways that are intuitive or respond to questions as a human might all that has changed dramatically in the past few years our search engines are becoming answer engines artificial intelligence is already revolutionising sectors from education to healthcare to the creative arts but how does an ai understand sentiment or context how does it play and win games that have an almost infinite number of moves and how can we work with ai to produce insights and innovations that are beyond human capacity from writing code in an instant to unfolding the elaborate 3d puzzles of proteins we stand at the brink of a historic change that will disrupt society and at the same time create enormous opportunities for those who understand how ai thinks nigel toon shows how we train ai to train itself so that it can paint images that have never existed before or converse in any language in doing so he reveals the strange and fascinating ways that humans think too as we learn how to live in a world shared by machine intelligences of our own creation

Firefox For Dummies 2011-01-14

this book is a second edition updated and expanded to explain the technologies that help us find information on the web search engines and web navigation tools have become ubiquitous in our day to day use of the web as an information source a tool for commercial transactions and a social computing tool moreover through the mobile web we have access to the web s services when we are on the move this book demystifies the tools that we use when interacting with the web and gives the reader a detailed overview of where we are and where we are going in terms of search engine and web navigation technologies

~~SEO Web 2011-05-09~~

firefox for dummies gives you the inside scoop on the exciting new browser from the wizard that got it started the book s author blake ross began developing firefox as a teenager once available to the world the simple and powerful tool was an instant hit claiming a sizable share of the browser market with over 140 million downloads in this book blake not only gives you the lowdown on how to use firefox for safe searching but he also shares his insight into how the product came to life it s a combination of practical tech insight and a good story that is rare in computer books topics covered include downloading and installing firefox creating a home page searching with google creating customized themes and toolbars using tabbed browsing downloading and saving files maintaining security and privacy eliminating annoying popups and adding firefox extensions

The Ecology of Games 2015-11-26

web 60 seo web web

Firefall 2007-11-30

an exploration of games as systems in which young people participate as gamers producers and learners in the many studies of games and young people s use of them little has been written about an overall ecology of gaming game design and play mapping the ways that all the various elements from coding to social practices to aesthetics coexist in the game world this volume looks at games as systems in which young users participate as gamers producers and learners the ecology of games edited by rules of play author katie salen aims to expand upon and add nuance to the debate over the value of games which so far has been vociferous but overly polemical and surprisingly shallow game play is credited with fostering new forms of social organization and new ways of thinking and interacting the contributors work to situate this within a dynamic media ecology that has the participatory nature of gaming at its core they look at the ways in which youth are empowered through their participation in the creation uptake and revision of games emergent gaming literacies including modding world building and learning how to navigate a complex system and how games act as points of departure for other forms of knowledge literacy and social organization contributors ian bogost anna everett james paul gee mizuko ito barry joseph laurie mccarthy jane mcgonigal cory ondrejka amit pitaru tom satwicz kurt squire reed stevens s craig watkins

Echopraxia 2014-09-11

firefall is the omnibus edition of the novels blindsight and echopraxia february 13 2082 first contact sixty two thousand objects of unknown origin plunge into earth s atmosphere a perfect grid of falling stars screaming across the radio spectrum as they burn not even ashes reach the ground three hundred and sixty degrees of global surveillance something just took a snapshot and then nothing but from deep space whispers something out there talks but not to us two ships theseus and the crown of thorns are launched to discover the origin of earth s visitation one bound for the outer dark of the kuiper belt the other for the heart of the solar system their crews can barely be called human what they will face certainly can t a tour de force redefining the first contact story for good charles stross if you only read one science fiction novel this year make it this one it puts the whole of the rest of the genre in the shade it deserves to walk away with the clarke the hugo the nebula the bsfa and pretty much any other genre award for which it s eligible it s off the scale f king awesome richard morgan state of the art science fiction smart dark and it grabs you by the throat from page one neal ascher

The Language Grid 2015-05-07

it s the eve of the 22nd century and the beginning of the end humanity splinters into strange new forms with every heartbeat hive minds coalesce rapture stricken speaking in tongues soldiers forgo consciousness for combat efficiency a nightmare human subspecies has been genetically resurrected half the population has retreated into the ersatz security of a virtual environment called heaven and it s all under surveillance by an alien presence that refuses to reveal itself daniel bruks has turned his back on it all taking refuge in the oregon desert as an unaugmented baseline human he s an irrelevance a living fossil for whom extinction beckons but he s about to find himself an unwilling pilgrim on a voyage to the heart of the solar system that will bring the fractured remnants of mankind to the biggest evolutionary breakpoint since the origin of thought if you only read one science fiction novel this year make it this one it puts the whole of the rest of the genre in the shade it deserves to walk away with the clarke the hugo the nebula the bsfa and pretty much any other genre award for which it s eligible it s off the scale f king awesome richard morgan state of the art science fiction smart dark and it grabs you by the throat from page one neal ascher

The History and Future of Technology 2011-07-29

there is increasing interaction among communities with multiple languages thus we need services that can effectively support multilingual communication the language grid is an initiative to build an infrastructure that allows end users to create composite language services for intercultural collaboration the aim is to support communities to create customized multilingual environments by using language services to overcome local language barriers the stakeholders of the language grid are the language resource providers the language service users and the language grid operators who coordinate the former this book includes 18 chapters in six parts that summarize various research results and associated development activities on the language grid the chapters in part i describe the framework of the language grid i e service oriented collective intelligence used to bridge providers users and operators two kinds of software are introduced the service grid server software and the language grid toolbox and code for both is available via open source licenses part ii describes technologies for service workflows that compose atomic language services part iii reports on research work and activities relating to sharing and using language services part iv describes various applications of language services as applicable to intercultural collaboration part v contains reports on applying the language grid for translation activities including localization of industrial documents and wikipedia articles finally part vi illustrates how the language grid can be connected to other service grids such as dfki s heart of gold and smart classroom services in tsinghua university in beijing the book will be valuable for researchers in artificial intelligence natural language processing services computing and human computer interaction particularly those who are interested in bridging technologies and user communities

Microbial Resources for Sustainable Energy 2021

eminent physicist and economist robert ayres examines the history of technology as a change agent in society focusing on societal roots rather than technology as an autonomous self perpetuating phenomenon with rare exceptions technology is developed in response to societal needs that have evolutionary roots and causes in our genus homo language evolved in response to a need for our ancestors to communicate both in the moment and to posterity a band of hunters had no chance in competition with predators that were larger and faster without this type of organization which eventually gave birth to writing and music the steam engine did not leap fully formed

from the brain of james watt it evolved from a need to pump water out of coal mines driven by a need to burn coal instead of firewood in turn due to deforestation later the steam engine made machines and mechanization possible even quite simple machines increased human productivity by a factor of hundreds if not thousands that was the industrial revolution if we count electricity and the automobile as a second industrial revolution and the digital computer as the beginning of a third the world is now on the cusp of a fourth revolution led by microbiology these industrial revolutions have benefited many in the short term but devastated the earths ecosystems can technology save the human race from the catastrophic consequences of its past success that is the question this book will try to answer

Education And Awareness Of Sustainability - Proceedings Of The 3rd Eurasian Conference On Educational Innovation 2020 (Ecei 2020) 2016-06-15

this book sheds new light on how microbes can be used as effective and sustainable resources to produce green energy in the form of biogas algal diesel ethanol hydrogen and direct electricity it discusses topics such as microbial energy conversion technologies including ethanol production by microbial catalytic reaction biomethanization biodiesel from microalgae microbial fuel cells and the microbiological production of hydrogen the book will inspire scientists to find new approaches to meet local energy demands with the help of sustainable microbial resources available in and around a given location

Agents for Games and Simulations II 2020-11-17

this volume represents the proceedings of the 3rd eurasian conference on educational innovation 2020 ecei 2020 the conference is organized by the international institute of knowledge innovation and invention iikii and was held on february 5 7 2020 in hanoi vietnam ecei 2020 provides a unified communication platform for researchers in a range of topics in education innovation and other related fields this proceedings volume enables interdisciplinary collaboration of science and engineering technologists it is a fine starting point for establishing an international network in the academic and industrial fields

Advances in Visual Computing 2011-01-14

while today s game engines and multi agent platforms cross fertilize each other to some extent the technologies used in these areas are not readily compatible due to some differences in their primary concerns where game engines prioritize efficiency and central control multi agent platforms focus on agent autonomy and sophisticated communication capabilities this volume gives an overview of the current state of the art for people wishing to combine agent technology with serious games this state of the art survey contains a collection of papers presented at ags 2010 the second international workshop on agents for games and simulations held on may 10 2010 in toronto as well as extended versions of papers from other workshops and from the aamas conference the 14 papers are organized in three topical sections focusing on architectures combining agents and game engines on the training aspects of the games on social and organizational aspects of games and agents respectively

The Harnessing of Power 2023-11-30

this volume lncs 14361 and 14362 constitutes the refereed proceedings of the 16th international symposium isvc 2023 in october 2023 held at lake tahoe nv usa the 42 full papers and 13 poster papers were carefully reviewed and selected from 120 submissions a total of 25 papers were also accepted for oral presentation in special tracks from 34 submissions the following topical sections followed as part 1 st biomedical image analysis techniques for cancer detection diagnosis and management visualization video analysis and event recognition st innovations in computer vision machine learning for critical civil infrastructures st generalization in visual machine learning computer graphics medical image analysis biometrics autonomous anomaly detection in images st artificial intelligence in aerial and orbital imagery st data gathering curation and generation for computer vision and robotics in precision agriculture part 2 virtual reality segmentation applications object detection and recognition deep learning poster

Ascend AI Processor Architecture and Programming 2018-07-27

this book examines how the 19th century s transport legacy of bicycles trains ocean going steamers trucks trams buses and cars arose creating numerous new technologies and markets nothing like this range of transport changes had occurred before and the 20th century changes were incremental compared with those of the 19th century the book explores where the key transport features came from and why there were so many inventions innovations and inconsistencies the industrial revolution was a key part of the process as it had strong links with transport developments this text adopts a broad global perspective but has a strong british orientation as the industrial revolution was a process predominantly initiated and implemented in britain nevertheless when the revolution lost momentum britain began to lose its leadership by century s end france and south western germany were dominant change makers and the usa was appearing on the horizon the book also highlights the many individual inventors and entrepreneurs who caused the dramatic transport changes and notes that they did this predominantly through individual initiatives to satisfy personal rather than corporate or national goals and that they were often hindered rather than aided by officialdom

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