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the three volume set Incs 12305 12306 and 12307 constitutes the refereed proceedings of the third chinese conference on pattern recognition and computer vision prcv 2020 held virtually in nanjing china in october 2020 the 158 full papers presented were carefully reviewed and selected from 402 submissions the papers have been organized in the following topical sections part i computer vision and application part ii pattern recognition and application part iii machine learning the book engineering mathematics has a purpose to satisfy the need of b tech students for all semester and meet the requirements of progressive candidates appearing for gate ese 2020 this book contain seven sections with a major focus on detailing of questions among linear algebra calculus differential equations complex functions probability and statistics numerical methods and transform theory the book covers topic wise theory with solved examples practise questions and previous years solved questions of gate ese of various engineering streams viz ce ch cs ec ee in me the book provides detailed understanding of mathematical terms by showing mathematical techniques together with easy and understandable explanations of the thought behind them the team onlineverdan have shown their efforts to bring the thought of candidate with this worthwhile unique book on e publication platform forming the 10th volume from this successful international conference series this book presents the work of scientists practitioners and other experts regarding recent technological and scientific developments associated with the management of surface and sub surface water resources the 6 volume set comprising the Incs books 12535 until 12540 constitutes the refereed proceedings of 28 out of the 45 workshops held at the 16th european conference on computer vision eccv 2020 the conference was planned to take place in glasgow uk during august 23 28 2020 but changed to a virtual format due to the covid 19 pandemic the 249 full papers 18 short papers and 21 further contributions included in the workshop proceedings were carefully reviewed and selected from a total of 467 submissions the papers deal with diverse computer vision topics part iii includes the advances in image manipulation workshop and challenges the 4 volume set Incs 13019 13020 13021 and 13022 constitutes the refereed proceedings of the 4th chinese conference on pattern recognition and computer vision prcv 2021 held in beijing china in october november 2021 the 201 full papers presented were carefully reviewed and selected from 513 submissions the papers have been organized in the following topical sections object detection tracking and recognition computer vision theories and applications multimedia processing and analysis low level vision and image processing biomedical image processing and analysis machine learning neural network and deep learning and new advances in visual perception and understanding chemistry of silica and zeolite based materials covers a wide range of topics related to silica based materials from design and synthesis to applications in different fields of science and technology since silica is transparent and inert to the light it is a very attractive host material for constructing artificial photosynthesis systems as an earth abundant oxide silica is an ideal and basic material for application of various oxides and the science and technology of silica based materials are fundamentally important for understanding other oxide based materials the book examines nanosolvation and confined molecules in silica hosts catalysis and photocatalysis photonics photosensors photovoltaics energy environmental sciences drug delivery and health written by a highly experienced and internationally renowned team from around the world chemistry of silica and zeolite based materials is ideal for chemists materials scientists chemical engineers physicists biologists biomedical sciences environmental scientists toxicologists and pharma scientists the enormous versatility of silica for building a large variety of materials with unique properties has been very well illustrated in this book the reader will be exposed to numerous potential applications of these materials from photocatalytic optical and electronic applications to chemical reactivity in confined spaces and biological applications this book is of clear interest not only to phd students and postdocs but also to researchers in this field seeking an understanding of the possible applications of meso and microporous silica derived materials professor avelino corma institute of chemical technology itq csic and polytechnical university of valencia spain discusses the most important advances in various fields using silica materials including nanosolvation and confined molecules in silica hosts catalysis and photocatalysis and other topics written by a global team of experts from a variety of science and technology disciplines ideal resource for chemists materials scientists and chemical engineers working with oxide based materials the seven volume set Incs 12137 12138 12139 12140 12141 12142 and 12143 constitutes the proceedings of the 20th international conference on computational science iccs 2020 held in amsterdam the netherlands in june 2020

the total of 101 papers and 248 workshop papers presented in this book set were carefully reviewed and selected from 719 submissions 230 submissions to the main track and 489 submissions to the workshops the papers were organized in topical sections named part i iccs main track part ii iccs main track part iii advances in high performance computational earth sciences applications and frameworks agent based simulations adaptive algorithms and solvers applications of computational methods in artificial intelligence and machine learning biomedical and bioinformatics challenges for computer science part iv classifier learning from difficult data complex social systems through the lens of computational science computational health computational methods for emerging problems in dis information analysis part v computational optimization modelling and simulation computational science in iot and smart systems computer graphics image processing and artificial intelligence part vi data driven computational sciences machine learning and data assimilation for dynamical systems meshfree methods in computational sciences multiscale modelling and simulation quantum computing workshop part vii simulations of flow and transport modeling algorithms and computation smart systems bringing together computer vision sensor networks and machine learning software engineering for computational science solving problems with uncertainties teaching computational science uncertainty quantification for computational models the conference was canceled due to the covid 19 pandemic this book reports on the proceeding of the 5th international conference on intelligent interactive systems and applications iisa 2020 held in shanghai china on september 25 27 2020 the iisa proceedings with the latest scientific findings and methods for solving intriguing problems are a reference for state of the art works on intelligent and interactive systems this book covers nine interesting and current topics on different systems orientations including analytical systems database management systems electronics systems energy systems intelligent systems network systems optimization systems and pattern recognition systems and applications the chapters included in this book cover significant recent developments in the field both in terms of theoretical foundations and their practical application an important characteristic of the works included here is the novelty of the solution approaches to the most interesting applications of intelligent and interactive systems this special issue deals with the synthesis of nanostructured surfaces and thin films by means of physical vapor deposition techniques such as pulsed laser deposition magnetron sputtering hipims or e beam evaporation among others the nanostructuring of the surface modifies the way a material interacts with the environment changing its optical mechanical electrical tribological or chemical properties this can be applied in the development of photovoltaic cells tribological coatings optofluidic sensors or biotechnology to name a few this issue includes research presenting novel or improved applications of nanostructured thin films such as photovoltaic solar cells thin film transistors antibacterial coatings or chemical and biological sensors while also studying the nanostructuring mechanisms from a fundamental point of view that produce rods columns helices or hexagonal grids at the nanoscale in 2018 curatorlove partnered with museums institutions galleries fortune 500 companies social agencies alternative art spaces startups art professionals and a myriad of artists from across the globe a selection of our projects are featured in this book several exhibitions and conversations took place this year because of our partners thank you the seven volume set Incs 12261 12262 12263 12264 12265 12266 and 12267 constitutes the refereed proceedings of the 23rd international conference on medical image computing and computer assisted intervention miccai 2020 held in lima peru in october 2020 the conference was held virtually due to the covid 19 pandemic the 542 revised full papers presented were carefully reviewed and selected from 1809 submissions in a double blind review process the papers are organized in the following topical sections part i machine learning methodologies part ii image reconstruction prediction and diagnosis cross domain methods and reconstruction domain adaptation machine learning applications generative adversarial networks part iii cai applications image registration instrumentation and surgical phase detection navigation and visualization ultrasound imaging video image analysis part iv segmentation shape models and landmark detection part v biological optical microscopic imaging cell segmentation and stain normalization histopathology image analysis ophthalmology part vi angiography and vessel analysis breast imaging colonoscopy dermatology fetal imaging heart and lung imaging musculoskeletal imaging part vi brain development and atlases dwi and tractography functional brain networks neuroimaging positron emission tomography through out the current period of educational change geography education has also changed the innovations may be the starting point to affect conceptual change and paradigm shifts geography education assimilates and integrates knowledge skills and scientific methodologies the ten articles in this book illuminate a wide range of topics of interest to geography education in their article skarstein and wolff discuss how the interplay between the environment society and economy pillars of sustainability thinking play out on scales of time space and multitude and how geography teachers can support the students understanding of sustainability yli panula et al analysed used teaching and learning methods to find out good ones for promoting sustainability in geography the same idea can be found in duffin s and perry s article on place based ecology education in

their article dūr and keller discuss the topics of quality of life sustainability and global justice based on the goals of education for sustainable development evaluation is an important part of learning it is reviewed by schauss and sprenger regarding climate change education the following two articles deal with students views of landscapes worth conserving in both studies students expressed concern about the state of the environment yli panula et al found that the mexican students seldom considered their own activities in relation to the environment while yli panula et al stated that only some of the finnish and swedish students act as observers while others actively care for their environment the remaining three articles deal with teaching methods and models benninghaus et al present a benchmark method which allows statements about the quality of the maps diagrams in general Álvarez otero and de lázaro y torres on the other hand describe their technological pedagogical content knowledge model kopnina and saari discusses student assignments reflecting on the documentary film through critical pedagogy and ecopedagogy the 30 volume set comprising the Incs books 12346 until 12375 constitutes the refereed proceedings of the 16th european conference on computer vision eccv 2020 which was planned to be held in glasgow uk during august 23 28 2020 the conference was held virtually due to the covid 19 pandemic the 1360 revised papers presented in these proceedings were carefully reviewed and selected from a total of 5025 submissions the papers deal with topics such as computer vision machine learning deep neural networks reinforcement learning object recognition image classification image processing object detection semantic segmentation human pose estimation 3d reconstruction stereo vision computational photography neural networks image coding image reconstruction object recognition motion estimation extended reality in practice as one of the leading business trends today extended reality xr promises to revolutionize the way consumers experience their encounters with brands and products of all kinds top brands from pepsi and uber to boeing and the u s army are creating immersive digital experiences that capture the interest and imaginations of their target markets in extended reality in practice 100 amazing ways virtual augmented and mixed reality are changing business and society celebrated futurist technologist speaker and author bernard marr delivers a robust and accessible explanation of how all kinds of firms are developing innovative xr solutions to business problems you ll discover the new ways that companies are harnessing virtual augmented and mixed reality to improve consumers perception of their brands you ll also find out why there are likely to be no industries that will remain untouched by the use of xr and why these technologies are popular across the commercial governmental and non profit spectrums perfect for chief executive officers business owners leaders managers and professionals working in business development extended reality in practice will also earn a place in the libraries of professionals working within innovation teams seeking an accessible resource on the possibilities and potential created by augmented virtual and mixed reality technologies an insightful exploration of extended reality from a renowned thought leader technologist and futurist extended reality in practice 100 amazing ways virtual augmented and mixed reality are changing business and society offers readers a front row seat to one of the most exciting and impactful business trends to find traction in years celebrated futurist and author bernard marr walks you through the ins and outs of xr or extended reality and how it promises to revolutionize everything from the experience of walking through an airport or shopping mall to grabbing a burger at a fast food restaurant discover insightful and illuminating case studies from businesses and organizations in a variety of industries including burger king bmw boeing and the u s army and see how they re turning virtual mixed and augmented reality experiences into big wins for their stakeholders you ll also find out about how xr can help businesses tackle the problems of lackluster engagement and lukewarm customer loyalty with reinvigorated consumer experiences ideal for executives founders business leaders and owners and professionals of all sorts extended reality in practice is an indispensable guide to an indispensable new technology the book is the leading resource for anyone seeking a one stop reference for augmented virtual and mixed reality tech and their limitless potential for enterprise cds cds ota 16 years mathematics topic wise solved papers 2007 feb 2022 april consists of last 16 years both feb and november papers from 2007 paper 1 2022 paper 1 solved papers of english distributed into 25 topics in all there are 31 question papers from 2007 to 2022 i which have been divided into the above discussed 25 topics practicing these questions aspirants will come to know about the pattern and toughness of the questions asked in the examination the book contains 3600 milestone mcq s from the above 31 question papers the strength of the book lies in the originality of its question papers and errorless solutions the solution of each and every question is provided in detail step by step so as to provide 100 concept clarity to the students this book discusses recent research and applications in intelligent service computing in mobile environments the authors first explain how advances in artificial intelligence and big data have allowed for an array of intelligent services with complex and diverse applications they then show how this brings new opportunities and challenges for service computing the book made up of contributions from academic and industry aims to present advances in intelligent services new algorithms and techniques in the field foundational theory and systems as well as practical real life applications some of the

topics discussed include cognition modeling description and verification for intelligent services discovery recommendation and selection for intelligent services formal verification testing and inspection for intelligent services and composition and cooperation methods for intelligent services since the turn of the last century when the field of catalysis was born iron and cobalt have been key players in numerous catalysis processes these metals due to their ability to activate co and ch have a major economic impact worldwide several industrial processes and synthetic routes use these metals biomass to liquids btl coal to liquids ctl natural gas to liquids gtl water gas shift alcohol synthesis alcohol steam reforming polymerization processes cross coupling reactions and photocatalyst activated reactions a vast number of materials are produced from these processes including oil lubricants waxes diesel and jet fuels hydrogen e.g. fuel cell applications gasoline rubbers plastics alcohols pharmaceuticals agrochemicals feed stock chemicals and other alternative materials however given the true complexities of the variables involved in these processes many key mechanistic issues are still not fully defined or understood this special issue of catalysis will be a collaborative effort to combine current catalysis research on these metals from experimental and theoretical perspectives on both heterogeneous and homogeneous catalysts we welcome contributions from the catalysis community on catalyst characterization kinetics reaction mechanism reactor development theoretical modeling and surface science this volume constitutes the proceedings of the 18th mexican conference on artificial intelligence micai 2019 held in xalapa mexico in october november 2019 the 59 full papers presented in this volume were carefully reviewed and selected from 148 submissions they cover topics such as machine learning optimization and planning fuzzy systems reasoning and intelligent applications and vision and robotics the four volume set Incs 11583 11584 11585 and 11586 constitutes the proceedings of the 8th international conference on design user experience and usability duxu 2019 held as part of the 21st international conference hci international 2019 which took place in orlando fl usa in july 2019 the total of 1274 papers and 209 posters included in the 35 hcii 2019 proceedings volumes was carefully reviewed and selected from 5029 submissions duxu 2019 includes a total of 167 regular papers organized in the following topical sections design philosophy design theories methods and tools user requirements preferences emotions and personality visual duxu for novel interaction techniques and devices duxu and robots duxu for ai and ai for duxu dialogue narrative storytelling duxu for automated driving transport sustainability and smart cities duxu for cultural heritage duxu for well being duxu for learning user experience evaluation methods and tools duxu practice duxu case studies one of the largest flows of energy in swedish municipalities is the fuel energy flow through the regional combined heat and power chp plant the customer products from this flow are mainly electricity to the electricity grid and heat to the building sector there are many ways to describe and examine this fuel energy flow and there are many perspectives this thesis presents one perspective it is a top down analytical and numerical perspective on the efficiency of heat and work in a regional energy system the analysis focus on the present situation in linköping municipality and aims at describing the energy efficiency improvement potential three subsystems are considered the regional production of electricity the regional production of heat and the regional public transport by bus these three systems are physically all heat engines i.e. engines that derive work and/or heat from fuel combustion processes it is important to notice that the analysis in this thesis does not describe the theoretical improvement potential that potential is considerably higher than the implementable potential but of no practical use instead the analysis is as far as possible based on real world measured efficiencies and efficiency values of best practice best available technology the analysis shows that hardware investments at the chp plant can improve the electricity generation efficiency and thereby reduce co₂ emissions the investments are in high pressure turbines medium pressure turbines and preheaters the size of the improvement is hard to quantify because it depends partly on unknown factors in the surrounding electricity market in the studied system co₂ reduction could be as high as 40-60% the regionally produced biogas would be used more efficiently if it were used in the local combined cycle gas turbine instead of being used in internal combustion engines in buses the buses would instead be electrically driven this use of biogas would create a better integrated fuel energy flow and reduce heat losses another improvement is to reduce the system temperatures in the district heating system the study shows that the efficiency gains because of lower system temperatures would increase electricity production by about 1-3% and that greenhouse gas emissions would be reduced by 4-20% however these improvements are dependent on demand side investments in the district heating system and are therefore slow to implement

ett av de största energiflödena i svenska kommuner är bränsle energi flödet genom det regionala kraftvärmeverket de konsumentprodukter som detta energiflöde producerar är främst uppvärmning av bostäder och elkraft det finns många sätt att beskriva och utvärdera detta bränsle energi flöde och det finns många olika perspektiv det här arbetet analyserar energiflödet med en analytisk top down metod analysen utgår ifrån den nuvarande situationen i linköpings kommun och avser att belysa den förbättringspotential som finns med avseende på systemets verkningsgrad tre delsystem har studerats det regionala systemet för värmeproduktion det regionala

systemet för elproduktion och det regionala kollektivtrafiksystemet för innerstadstrafik med buss dessa tre system är fysikaliskt värmemotorer d v s de är system som nyttjar termisk energi från förbränningsprocesser för att utföra ett arbete och eller generera värme det är viktigt att notera att analyserna i detta arbete inte avser att beskriva en teoretisk förbättringspotential analyserna avser istället att belysa den praktiska implementerbara förbättringspotentialen därför har arbetet så långt som möjligt utgått ifrån uppmätta data och numeriska värden på verkningsgrader ifrån redan existerande anläggningar eller tekniska komponenter analyserna visar att hårdvaruinvesteringar i det lokala kraftvärmeverket skulle öka elproduktionen och därigenom sänka koldioxidutsläppen de investeringar som skulle behöva göras är investeringar i högtrycksturbiner mellantrycksturbiner och förvärmare de sänkta koldioxidutsläppen är svåra att kvantifiera eftersom de delvis beror på okända faktorer på den omgivande elmarknaden reduktionen av koldioxidutsläppen skulle kunna vara så stor som 40 60 den lokalt producerade biogasen skulle användas mer effektivt om den användes i den lokala gaskombi anläggningen istället för att användas som bussbränsle som är det nuvarande användningsområdet för detta bränsle bussarna skulle istället kunna ersättas med elbussar en sådan förändring av biogas användningen skulle innebära ett bättre integrerat energisystem med lägre värmeförluster en annan möjlig förbättring av kraftvärmesystemet är att sänka returtemperaturerna i fjärrvärmesystemet analyserna visar att elverkningsgraden skulle förbättras 1 3 och att koldioxidutsläppen skulle kunna minska med 4 20 dessa förbättringar skulle däremot kräva investeringar på kraftvärmesystemets kundsida och bedöms därför vara långsamma att implementera interactions of degree and quantification examines connections and semantic parallels between individual and degree quantifiers in the expression of quantity and measurement in human language

1935

the three volume set Incs 12305 12306 and 12307 constitutes the refereed proceedings of the third chinese conference on pattern recognition and computer vision prcv 2020 held virtually in nanjing china in october 2020 the 158 full papers presented were carefully reviewed and selected from 402 submissions the papers have been organized in the following topical sections part i computer vision and application part ii pattern recognition and application part iii machine learning

1919

the book engineering mathematics has a purpose to satisfy the need of b tech students for all semester and meet the requirements of progressive candidates appearing for gate ese 2020 this book contain seven sections with a major focus on detailing of questions among linear algebra calculus differential equations complex functions probability and statistics numerical methods and transform theory the book covers topic wise theory with solved examples practise questions and previous years solved questions of gate ese of various engineering streams viz ce ch cs ec ee in me the book provides detailed understanding of mathematical terms by showing mathematical techniques together with easy and understandable explanations of the thought behind them the team onlineverdan have shown their efforts to bring the thought of candidate with this worthwhile unique book on e publication platform

1917

forming the 10th volume from this successful international conference series this book presents the work of scientists practitioners and other experts regarding recent technological and scientific developments associated with the management of surface and sub surface water resources

1937

the 6 volume set comprising the Incs books 12535 until 12540 constitutes the refereed proceedings of 28 out of the 45 workshops held at the 16th european conference on computer vision eccv 2020 the conference was planned to take place in glasgow uk during august 23 28 2020 but changed to a virtual format due to the covid 19 pandemic the 249 full papers 18 short papers and 21 further contributions included in the workshop proceedings were carefully reviewed and selected from a total of 467 submissions the papers deal with diverse computer vision topics part iii includes the advances in image manipulation workshop and challenges

Pattern Recognition and Computer Vision 2020-10-11

the 4 volume set Incs 13019 13020 13021 and 13022 constitutes the refereed proceedings of the 4th chinese conference on pattern recognition and computer vision prcv 2021 held in beijing china in october november 2021 the 201 full papers presented were carefully reviewed and selected from 513 submissions the papers have been organized in the following topical sections object detection tracking and recognition computer vision theories and applications multimedia processing and analysis low level vision and image processing biomedical image processing and analysis machine learning neural network and deep learning and new advances in visual perception and understanding

Engineering Mathematics for GATE & ESE 2020 2019-04-22

chemistry of silica and zeolite based materials covers a wide range of topics related to silica based materials from design and synthesis to applications in different fields of science and technology since silica is transparent and inert to the light it is a very attractive host material for constructing artificial photosynthesis systems as an earth abundant oxide silica is an ideal and basic material for application of various oxides and the science and technology of silica based materials are fundamentally important for understanding other oxide based materials the book examines nanosolvation and confined molecules in silica hosts catalysis and photocatalysis photonics photosensors photovoltaics energy environmental sciences drug delivery and health written by a highly experienced and internationally renowned team from around the world chemistry of silica and zeolite based

materials is ideal for chemists materials scientists chemical engineers physicists biologists biomedical sciences environmental scientists toxicologists and pharma scientists the enormous versatility of silica for building a large variety of materials with unique properties has been very well illustrated in this book the reader will be exposed to numerous potential applications of these materials from photocatalytic optical and electronic applications to chemical reactivity in confined spaces and biological applications this book is of clear interest not only to phd students and postdocs but also to researchers in this field seeking an understanding of the possible applications of meso and microporous silica derived materials professor avelino corma institute of chemical technology itq csic and polytechnical university of valencia spain discusses the most important advances in various fields using silica materials including nanosolvation and confined molecules in silica hosts catalysis and photocatalysis and other topics written by a global team of experts from a variety of science and technology disciplines ideal resource for chemists materials scientists and chemical engineers working with oxide based materials

Water Resources Management X 2019-07-16

the seven volume set Incs 12137 12138 12139 12140 12141 12142 and 12143 constitutes the proceedings of the 20th international conference on computational science iccs 2020 held in amsterdam the netherlands in june 2020 the total of 101 papers and 248 workshop papers presented in this book set were carefully reviewed and selected from 719 submissions 230 submissions to the main track and 489 submissions to the workshops the papers were organized in topical sections named part i iccs main track part ii iccs main track part iii advances in high performance computational earth sciences applications and frameworks agent based simulations adaptive algorithms and solvers applications of computational methods in artificial intelligence and machine learning biomedical and bioinformatics challenges for computer science part iv classifier learning from difficult data complex social systems through the lens of computational science computational health computational methods for emerging problems in dis information analysis part v computational optimization modelling and simulation computational science in iot and smart systems computer graphics image processing and artificial intelligence part vi data driven computational sciences machine learning and data assimilation for dynamical systems meshfree methods in computational sciences multiscale modelling and simulation quantum computing workshop part vii simulations of flow and transport modeling algorithms and computation smart systems bringing together computer vision sensor networks and machine learning software engineering for computational science solving problems with uncertainties teaching computational science uncertainty quantification for computational models the conference was canceled due to the covid 19 pandemic

Computer Vision - ECCV 2020 Workshops 2021-01-29

this book reports on the proceeding of the 5th international conference on intelligent interactive systems and applications iisa 2020 held in shanghai china on september 25 27 2020 the iisa proceedings with the latest scientific findings and methods for solving intriguing problems are a reference for state of the art works on intelligent and interactive systems this book covers nine interesting and current topics on different systems orientations including analytical systems database management systems electronics systems energy systems intelligent systems network systems optimization systems and pattern recognition systems and applications the chapters included in this book cover significant recent developments in the field both in terms of theoretical foundations and their practical application an important characteristic of the works included here is the novelty of the solution approaches to the most interesting applications of intelligent and interactive systems

Pattern Recognition and Computer Vision 2021-10-22

this special issue deals with the synthesis of nanostructured surfaces and thin films by means of physical vapor deposition techniques such as pulsed laser deposition magnetron sputtering hipims or e beam evaporation among others the nanostructuring of the surface modifies the way a material interacts with the environment changing its optical mechanical electrical tribological or chemical properties this can be applied in the development of photovoltaic cells tribological coatings optofluidic sensors or biotechnology to name a few this issue includes research presenting novel or improved applications of nanostructured thin films such as photovoltaic solar cells thin film transistors antibacterial coatings or chemical and biological sensors while also studying the nanostructuring mechanisms from a fundamental point of view that produce rods columns helixes or hexagonal grids at the nanoscale

Chemistry of Silica and Zeolite-Based Materials 2019-07-04

in 2018 curatorlove partnered with museums institutions galleries fortune 500 companies social agencies alternative art spaces startups art professionals and a myriad of artists from across the globe a selection of our projects are featured in this book several exhibitions and conversations took place this year because of our partners thank you

The City Record 1904

the seven volume set Incs 12261 12262 12263 12264 12265 12266 and 12267 constitutes the refereed proceedings of the 23rd international conference on medical image computing and computer assisted intervention miccai 2020 held in lima peru in october 2020 the conference was held virtually due to the covid 19 pandemic the 542 revised full papers presented were carefully reviewed and selected from 1809 submissions in a double blind review process the papers are organized in the following topical sections part i machine learning methodologies part ii image reconstruction prediction and diagnosis cross domain methods and reconstruction domain adaptation machine learning applications generative adversarial networks part iii cai applications image registration instrumentation and surgical phase detection navigation and visualization ultrasound imaging video image analysis part iv segmentation shape models and landmark detection part v biological optical microscopic imaging cell segmentation and stain normalization histopathology image analysis ophthalmology part vi angiography and vessel analysis breast imaging colonoscopy dermatology fetal imaging heart and lung imaging musculoskeletal imaging part vii brain development and atlases dwi and tractography functional brain networks neuroimaging positron emission tomography

Computational Science - ICCS 2020 2020-06-18

through out the current period of educational change geography education has also changed the innovations may be the starting point to affect conceptual change and paradigm shifts geography education assimilates and integrates knowledge skills and scientific methodologies the ten articles in this book illuminate a wide range of topics of interest to geography education in their article skarstein and wolff discuss how the interplay between the environment society and economy pillars of sustainability thinking play out on scales of time space and multitude and how geography teachers can support the students understanding of sustainability yli panula et al analysed used teaching and learning methods to find out good ones for promoting sustainability in geography the same idea can be found in duffin s and perry s article on place based ecology education in their article dūr and keller discuss the topics of quality of life sustainability and global justice based on the goals of education for sustainable development evaluation is an important part of learning it is reviewed by schauss and sprenger regarding climate change education the following two articles deal with students views of landscapes worth conserving in both studies students expressed concern about the state of the environment yli panula et al found that the mexican students seldom considered their own activities in relation to the environment while yli panula et al stated that only some of the finnish and swedish students act as observers while others actively care for their environment the remaining three articles deal with teaching methods and models benninghaus et al present a benchmark method which allows statements about the quality of the maps diagrams in general Álvarez otero and de lázaro y torres on the other hand describe their technological pedagogical content knowledge model kopnina and saari discusses student assignments reflecting on the documentary film through critical pedagogy and ecopedagogy

Emerging Trends in Intelligent and Interactive Systems and Applications 2020-12-17

the 30 volume set comprising the Incs books 12346 until 12375 constitutes the refereed proceedings of the 16th european conference on computer vision eccv 2020 which was planned to be held in glasgow uk during august 23 28 2020 the conference was held virtually due to the covid 19 pandemic the 1360 revised papers presented in these proceedings were carefully reviewed and selected from a total of 5025 submissions the papers deal with topics such as computer vision machine learning deep neural networks reinforcement learning object recognition image classification image processing object detection semantic segmentation human pose estimation 3d reconstruction stereo vision computational photography neural networks image coding image

reconstruction object recognition motion estimation

Nanostructured Surfaces and Thin Films Synthesis by Physical Vapor Deposition 2021-04-22

extended reality in practice as one of the leading business trends today extended reality xr promises to revolutionize the way consumers experience their encounters with brands and products of all kinds top brands from pepsi and uber to boeing and the u s army are creating immersive digital experiences that capture the interest and imaginations of their target markets in extended reality in practice 100 amazing ways virtual augmented and mixed reality are changing business and society celebrated futurist technologist speaker and author bernard marr delivers a robust and accessible explanation of how all kinds of firms are developing innovative xr solutions to business problems you ll discover the new ways that companies are harnessing virtual augmented and mixed reality to improve consumers perception of their brands you ll also find out why there are likely to be no industries that will remain untouched by the use of xr and why these technologies are popular across the commercial governmental and non profit spectrums perfect for chief executive officers business owners leaders managers and professionals working in business development extended reality in practice will also earn a place in the libraries of professionals working within innovation teams seeking an accessible resource on the possibilities and potential created by augmented virtual and mixed reality technologies an insightful exploration of extended reality from a renowned thought leader technologist and futurist extended reality in practice 100 amazing ways virtual augmented and mixed reality are changing business and society offers readers a front row seat to one of the most exciting and impactful business trends to find traction in years celebrated futurist and author bernard marr walks you through the ins and outs of xr or extended reality and how it promises to revolutionize everything from the experience of walking through an airport or shopping mall to grabbing a burger at a fast food restaurant discover insightful and illuminating case studies from businesses and organizations in a variety of industries including burger king bmw boeing and the u s army and see how they re turning virtual mixed and augmented reality experiences into big wins for their stakeholders you ll also find out about how xr can help businesses tackle the problems of lackluster engagement and lukewarm customer loyalty with reinvigorated consumer experiences ideal for executives founders business leaders and owners and professionals of all sorts extended reality in practice is an indispensable guide to an indispensable new technology the book is the leading resource for anyone seeking a one stop reference for augmented virtual and mixed reality tech and their limitless potential for enterprise

□□□□□□ 1923

cds cds ota 16 years mathematics topic wise solved papers 2007 feb 2022 april consists of last 16 years both feb and november papers from 2007 paper 1 2022 paper 1 solved papers of english distributed into 25 topics in all there are 31 question papers from 2007 to 2022 i which have been divided into the above discussed 25 topics practicing these questions aspirants will come to know about the pattern and toughness of the questions asked in the examination the book contains 3600 milestone mcq s from the above 31 question papers the strength of the book lies in the originality of its question papers and errorless solutions the solution of each and every question is provided in detail step by step so as to provide 100 concept clarity to the students

Year Three 2019-05-10

this book discusses recent research and applications in intelligent service computing in mobile environments the authors first explain how advances in artificial intelligence and big data have allowed for an array of intelligent services with complex and diverse applications they then show how this brings new opportunities and challenges for service computing the book made up of contributions from academic and industry aims to present advances in intelligent services new algorithms and techniques in the field foundational theory and systems as well as practical real life applications some of the topics discussed include cognition modeling description and verification for intelligent services discovery recommendation and selection for intelligent services formal verification testing and inspection for intelligent services and composition and cooperation methods for intelligent services

Bond Guide 2010

since the turn of the last century when the field of catalysis was born iron and cobalt have been key players in numerous catalysis processes these metals due to their ability to activate co and ch have a major economic impact worldwide several industrial processes and synthetic routes use these metals biomass to liquids btl coal to liquids ctl natural gas to liquids gtl water gas shift alcohol synthesis alcohol steam reforming polymerization processes cross coupling reactions and photocatalyst activated reactions a vast number of materials are produced from these processes including oil lubricants waxes diesel and jet fuels hydrogen e g fuel cell applications gasoline rubbers plastics alcohols pharmaceuticals agrochemicals feed stock chemicals and other alternative materials however given the true complexities of the variables involved in these processes many key mechanistic issues are still not fully defined or understood this special issue of catalysis will be a collaborative effort to combine current catalysis research on these metals from experimental and theoretical perspectives on both heterogeneous and homogeneous catalysts we welcome contributions from the catalysis community on catalyst characterization kinetics reaction mechanism reactor development theoretical modeling and surface science

The Architect's and Builder's Pocket-book of Mensuration, Geometry ... 1892

this volume constitutes the proceedings of the 18th mexican conference on artificial intelligence micai 2019 held in xalapa mexico in october november 2019 the 59 full papers presented in this volume were carefully reviewed and selected from 148 submissions they cover topics such as machine learning optimization and planning fuzzy systems reasoning and intelligent applications and vision and robotics

Medical Image Computing and Computer Assisted Intervention - MICCAI 2020 2020-10-02

the four volume set lncs 11583 11584 11585 and 11586 constitutes the proceedings of the 8th international conference on design user experience and usability duxu 2019 held as part of the 21st international conference hci international 2019 which took place in orlando fl usa in july 2019 the total of 1274 papers and 209 posters included in the 35 hcii 2019 proceedings volumes was carefully reviewed and selected from 5029 submissions duxu 2019 includes a total of 167 regular papers organized in the following topical sections design philosophy design theories methods and tools user requirements preferences emotions and personality visual duxu duxu for novel interaction techniques and devices duxu and robots duxu for ai and ai for duxu dialogue narrative storytelling duxu for automated driving transport sustainability and smart cities duxu for cultural heritage duxu for well being duxu for learning user experience evaluation methods and tools duxu practice duxu case studies

Geography Education Promoting Sustainability 2020-04-15

one of the largest flows of energy in swedish municipalities is the fuel energy flow through the regional combined heat and power chp plant the customer products from this flow are mainly electricity to the electricity grid and heat to the building sector there are many ways to describe and examine this fuel energy flow and there are many perspectives this thesis presents one perspective it is a top down analytical and numerical perspective on the efficiency of heat and work in a regional energy system the analysis focus on the present situation in linköping municipality and aims at describing the energy efficiency improvement potential three subsystems are considered the regional production of electricity the regional production of heat and the regional public transport by bus these three systems are physically all heat engines i e engines that derive work and or heat from fuel combustion processes it is important to notice that the analysis in this thesis does not describe the theoretical improvement potential that potential is considerably higher than the implementable potential but of no practical use instead the analysis is as far as possible based on real world measured efficiencies and efficiency values of best practice best available technology the analysis shows that hardware investments at the chp plant can improve the electricity generation efficiency and thereby reduce co2 emissions the investments are in high pressure turbines medium pressure turbines and preheaters the size of the improvement is hard to quantify because it depends partly on unknown factors in the surrounding electricity

market in the studied system CO₂ reduction could be as high as 40-60% the regionally produced biogas would be used more efficiently if it were used in the local combined cycle gas turbine instead of being used in internal combustion engines in buses the buses would instead be electrically driven this use of biogas would create a better integrated fuel energy flow and reduce heat losses another improvement is to reduce the system temperatures in the district heating system the study shows that the efficiency gains because of lower system temperatures would increase electricity production by about 1-3% and that greenhouse gas emissions would be reduced by 4-20% however these improvements are dependent on demand side investments in the district heating system and are therefore slow to implement ett av de största energiflödena i svenska kommuner är bränsle energi flödet genom det regionala kraftvärmeverket de konsumentprodukter som detta energiflöde producerar är främst uppvärmning av bostäder och elkraft det finns många sätt att beskriva och utvärdera detta bränsle energi flöde och det finns många olika perspektiv det här arbetet analyserar energiflödet med en analytisk top-down metod analysen utgår ifrån den nuvarande situationen i linköpings kommun och avser att belysa den förbättringspotential som finns med avseende på systemets verkningsgrad tre delsystem har studerats det regionala systemet för värmeproduktion det regionala systemet för elproduktion och det regionala kollektivtrafiksystemet för innerstadstrafik med buss dessa tre system är fysikaliskt värmemotorer d v s de är system som nyttjar termisk energi från förbränningsprocesser för att utföra ett arbete och eller generera värme det är viktigt att notera att analyserna i detta arbete inte avser att beskriva en teoretisk förbättringspotential analyserna avser istället att belysa den praktiska implementerbara förbättringspotentialen därför har arbetet så långt som möjligt utgått ifrån uppmätta data och numeriska värden på verkningsgrader ifrån redan existerande anläggningar eller tekniska komponenter analyserna visar att hårdvaruinvesteringar i det lokala kraftvärmeverket skulle öka elproduktionen och därigenom sänka koldioxidutsläppen de investeringar som skulle behöva göras är investeringar i högtrycksturbiner mellantrycksturbiner och förvärmare de sänkta koldioxidutsläppen är svåra att kvantifiera eftersom de delvis beror på okända faktorer på den omgivande elmarknaden reduktionen av koldioxidutsläppen skulle kunna vara så stor som 40-60% den lokalt producerade biogasen skulle användas mer effektivt om den användes i den lokala gaskombi anläggningen istället för att användas som bussbränsle som är det nuvarande användningsområdet för detta bränsle bussarna skulle istället kunna ersättas med elbussar en sådan förändring av biogas användningen skulle innebära ett bättre integrerat energisystem med lägre värmeförluster en annan möjlig förbättring av kraftvärmesystemet är att sänka returtemperaturerna i fjärrvärmesystemet analyserna visar att elverkningsgraden skulle förbättras 1-3% och att koldioxidutsläppen skulle kunna minska med 4-20% dessa förbättringar skulle däremot kräva investeringar på kraftvärmesystemets kundside och bedöms därför vara långsamma att implementera

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interactions of degree and quantification examines connections and semantic parallels between individual and degree quantifiers in the expression of quantity and measurement in human language

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