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Digital Business Strategies 2021-02-16 55 discount for bookstores now at 24 95 of 34 95 how do you refine existing processes to streamline workflows improve customer experiences and create new opportunities how do you gather data specific to your operations and your customers to measure performance forecast trends and improve products your customers will never stop using this amazing book digital transformation is less about technology and more about your business strategy it s about your people your process and your data how do you change your work culture so that your employees collaborate better become more productive and start innovating in order to thrive in the digital age organizations need leadership that can lead their transformation through innovation they need to change existing business models introduce new products and services and guide the entire team through the process digital transformation is not just for larger enterprises small and medium sized businesses also need to transform digitally to stay competitive and scale operations for further growth download digital business automation get the most out of marketing automation explained for beginners transformation and best growth strategy through digital marketing for passive income digital transformation requires strategic thinking you can t implement technology without understanding its real value for your business for a successful transformation you must create a digital roadmap and use it as a guiding principle your team s readiness to support business objectives and foster a culture of innovation is crucial for meeting your goals new digital technologies are advancing at a fast pace which makes it difficult for most organizations to maintain in house resources with the required skills many organizations are testing new technologies for business value don t be left out while it may seem like a massive undertaking you don t have to take on a digital transformation alone rely on technology partners to help you address your specific needs and to accelerate your transformation digital transformation is not an overnight change but rather an ongoing journey that continues as digital technologies advance and business needs evolve by building a strategic roadmap and starting with small changes you can slowly begin to transform key areas of the business and eventually be successful in meeting all objectives this book gives a comprehensive guide on the following understanding digital transformation botnets and beyond technologies powering digital transformation roadmapping your digital transformation strategy hands on automating customer follow up email automation micro sales funnels how to automate your marketing levels of automation cloud computing and more risks of not adopting digital can be significant you will continue to face growing competition from the digital savvy competitors and digital startups in your industry in the digital age the only way to survive and thrive is to embrace digital scroll to the top of the page and select the buy now button

Digital Workforce 2018-10-08 robotic process automation rpa has grown from a relatively obscure technology that few recognised to significantly disrupting the workforce in just a few short years analysts predict the growth will continue exponentially but what is the truth how do you distinguish between the hype and the myths that now surround this topic whether it s bill gates suggesting rpa should be taxed or predictions of massive job losses there is a lot of confusion about what rpa really is and what impact it will have whatever industry sector you find yourself in no matter how large or small you will find that rpa will become the backbone of your future

workforce if you are to continue to meet the changing customer demands there is a need to act quickly and transform your business now or risk being disrupted by those who have already set out on their automation journey but then we find that between 30 50 of automation pilots fail statements made by vendors how easy it is to implement rpa are somewhat overstated however there are some basic lessons learned that can help you find the right path for your organisation in this book i will explain the different types of robotic process automation and how to align your business needs to the solutions available and then start and scale your automation journey this is not a sheep dip approach but a carefully considered approach that helps you to align your specific business needs to the right solution and the right business model implementing rpa is not easy but neither should it be too difficult if you follow a well considered approach

<u>Digital Business Automation</u> 2019-11-29 how do you refine existing processes to streamline workflows improve customer experiences and create new opportunities how do you gather data specific to your operations and your customers to measure performance forecast trends and improve products digital transformation is less about technology and more about your business strategy it s about your people your process and your data how do you change your work culture so that your employees collaborate better become more productive and start innovating in order to thrive in the digital age organizations need leadership that can lead their transformation through innovation they need to change existing business models introduce new products and services and guide the entire team through the process digital transformation is not just for larger enterprises small and medium sized businesses also need to transform digitally to stay competitive and scale operations for further growth download digital business automation get the most out of marketing automation explained for beginners transformation and best growth strategy through digital marketing for passive income digital transformation requires strategic thinking you cannot implement technology without understanding its real value for your business for a successful transformation you must create a digital roadmap and use it as a guiding principle your team s readiness to support business objectives and foster a culture of innovation is crucial for meeting your goals new digital technologies are advancing at a fast pace which makes it difficult for most organizations to maintain in house resources with the required skills many organizations are testing new technologies for business value don t be left out while it may seem like a massive undertaking you don t have to take on a digital transformation alone rely on technology partners to help you address your specific needs and to accelerate your transformation digital transformation is not an overnight change but rather an ongoing journey that continues as digital technologies advance and business needs evolve by building a strategic roadmap and starting with small changes you can slowly begin to transform key areas of the business and eventually be successful in meeting all objectives this book gives a comprehensive guide on the following understanding digital transformation botnets and beyond technologies powering digital transformation roadmapping your digital transformation strategy hands on automating customer follow up email automation micro sales funnels how to automate your marketing levels of automation cloud computing and more risks of not adopting digital can be significant you will continue to face growing competition from the

digital savvy competitors and digital startups in your industry in the digital age the only way to survive and thrive is to embrace digital scroll to the top of the page and select the buy now button

Smart Agriculture Automation Using Advanced Technologies 2022-01-01 this book addresses the challenges for developing and emerging trends in internet of things iot for smart agriculture platforms it also describes data analytics machine learning cloud architecture automation robotics and aims to overcome existing barriers for smart agriculture with commercial viability it discusses iot based monitoring systems for analyzing the crop environment and methods for improving the efficiency of decision making based on the analysis of harvest statistics the book explores a range of applications including intelligent field monitoring intelligent data processing and sensor technologies predictive analysis systems crop monitoring and weather data enabled analysis in iot agro systems this volume will be helpful for engineering and technology experts and researchers as well as for policy makers

<u>Workflow Automation with Microsoft Power Automate</u> 2020-09-18 find our new updated edition to get the latest industry knowledge at your disposal key features learn the latest in power automate with updated user interface visuals and new technology included apply practical knowledge like managing user inputs documents approvals and database storage create flows that integrate with services both inside and outside the microsoft 365 ecosystem book descriptionmicrosoft power automate is a workflow automation solution included in microsoft 365 this book explores the core concepts of workflow automation such as working with connectors triggers and actions along with their practical implementation in automating business tasks and simplifying digital processes to boost enterprise productivity what you will learn learn the basic building blocks of power automate capabilities explore connectors in power automate to automate email workflows discover how to make a flow for copying files between cloud services configure power automate desktop flows for your business needs build on examples to create complex database and approval flows connect common business applications like outlook forms and teams learn the introductory concepts for robotic process automation discover how to use ai sentiment analysis who this book is for the book is for technologists system administrators and power users with little or no microsoft power automate experience familiarity with basic microsoft 365 services is expected

Automate It with Zapier 2021-08-25 build easy and accessible solutions for automating mundane processes in marketing sales operations and finance to enable teams to focus on core tasks key featureslearn zapier and find solutions to specific problems with this comprehensive yet concise guideexplore various scenarios describing specific business problems and how they can be solved with zapierdiscover expert tips and practical examples to harness the full potential of zapierbook description zapier is an emerging no code workflow automation technology that enables organizations to connect their cloud based and web applications and automate data transfer between them zapier s built in features and flexibility allow users to integrate thousands of business applications and create simple to complex automation to reduce time spent on repetitive tasks thereby increasing productivity this book is a must have for business owners their employees and independent freelancers and contractors looking to use zapier for business process automation the book takes a hands on approach to implementation and associated problem

solving methodologies that will have you up and running and productive in no time while leveling up your automation skills you ll discover how to plan your automation building for optimal results what are the native features available in zapier and the applications that connect with it as well as how to optimally configure your workflows to automate your processes in as few steps as possible finally you ll find out how to create advanced workflow automation from scratch and learn how to troubleshoot issues by the end of this zapier book you ll be able to build your own advanced workflow automation using zapier addressing the key pain points encountered in businesses with manual and repetitive tasks what you will learnthink creatively to plan your business workflows to overcome specific business problemsget to grips with the native features and built in applications available in zapierexplore different types of third party business applications that integrate with zapierconfigure your workflows optimally to automate business processes and minimize task usageuse zapier s library of pre built workflows and create advanced workflows from scratchdiscover the extensive functionality and practical uses of zapier s built in appswho this book is for this book is for solutions architects process consultants business analysts virtual assistants digital marketers crm consultants online business managers technical consultants bookkeepers and accountants who want to deploy effective automation techniques in zapier this book will help micro small or medium sized businesses to increase their productivity using workflow automation with zapier as well as freelancers and contractors providing digital process improvement systemizing and automation services no prior experience with business process automation or zapier is required

The Automation of Society Is Next 2015-10-30 the explosion in data volumes processing power and artificial intelligence known as the digital revolution has driven our world to a dangerous point one thing is increasingly clear we are at a crossroads we need to make decisions we must re invent our future this full colour book includes 32 figures and visualisations after the automation of factories and the creation of self driving cars the automation of society is next but there are two kinds of automation a centralized top down control of the world and a distributed control approach supporting local self organization using the power of today s information systems governments and companies like google seem to engage in the first approach will they even try to build a digital god who knows everything and controls what we do in fact governments would spend billions to predict the future of our world and control its path given that every year we produce as much data as in the entire history of humankind can we now create a better world the abundance of data certainly makes it possible to establish an entirely new paradigm for running our societies could we even build a data driven crystal ball to predict the future and given that knowledge implies power also something like a magic wand to optimally rule the world will the digital revolution empower a wise king or benevolent dictator maybe by means of artificial intelligence in fact we are much closer to this than you might think but do we really need large scale surveillance to understand and manage the increasingly complex systems we have created or are we running into a totalitarian nightmare what alternatives to master our complex world do we have what about the principles of the invisible hand and the wisdom of the crowd which posit that independent decisions made by many people will produce optimal societal outcomes in

the past these principles have often failed so can bottom up self organization really work and if so what does it take could technology make it work relying on the internet of things and complexity science can self organization now enable a more efficient more innovative more successful more resilient smarter and happier society let us explore this now because this would open the door to a brighter version of the digital society based on informational self determination human dignity freedom of decision making democratic principles participation and collective intelligence it s time to take the future in our hands

A Field Guide to Digital Transformation 2021-12-22 your complete guide to digital transformation a field guide to digital transformation is the definitive book on digital transformation top selling it author thomas erl and long time practitioner roger stoffers combine to provide comprehensive yet easy to understand coverage of essential digital transformation concepts practices and technologies in the format of a plain english tutorial written for any it professionals students or decision makers with more than 160 diagrams this guide provides a highly visual exploration of what digital transformation is how it works and the techniques and technologies required to successfully build modern day digital transformation solutions learn from the experts and discover what digital transformation is why it emerged and when to apply it identify the significant business benefits that successful digital transformations can deliver and how to turn your organization into a disruptive force prepare for and overcome the common challenges associated with digital transformation initiatives understand the data driven nature of digital transformation solutions and how they use and continually accumulate data intelligence understand how digital transformation solutions can utilize ai technology for intelligent automated decision making gain insight into customer centricity and how its practices are applied as part of digital transformations explore key digital transformation automation technologies such as robotic process automation rpa internet of things iot blockchain and cloud computing explore key digital transformation data science technologies such as artificial intelligence ai machine learning and big data analysis and analytics the book concludes with a uniquely detailed and highly visual real world business scenario that provides step by step insights into how a digital transformation solution works how it utilizes data intelligence to improve customer relationship building and how it collects new data intelligence in support of enhancing future business capabilities

Connected, Intelligent, Automated 2020-02-20 quality 4 0 is for all industries and this book is for anyone who wants to learn how industry 4 0 and quality 4 0 can help improve quality and performance in their team or company this comprehensive guide is the culmination of 25 years of research and practice exploring implementing and critically examining the quality and performance improvement aspects of what we now call industry 4 0 technologies navigate the connected intelligent and automated ecosystems of infrastructure people objects machines and data sift through the noise around ai ar big data blockchain cybersecurity and other rising technologies and emerging issues to find the signals for your organization discover the value proposition of quality 4 0 and the leading role for quality professionals to drive successful digital transformation initiatives the changes ahead are powerful exciting and overwhelming and we can draw on the lessons from past work to mitigate the risks we face

today connected intelligent automated provides you with the techniques philosophies and broad overall knowledge you need to understand quality 4 0 and helps you leverage those things for the future success of your enterprise chapter 1 quality 4 0 and the fourth industrial revolution chapter 2 connected ecosystems chapter 3 intelligent agents and machine learning chapter 4 automation from manual labor to autonomy chapter 5 quality 4 0 use cases across industries chapter 6 from algorithms to advanced analytics chapter 7 delivering value and impact through data science chapter 8 data quality and data management chapter 9 software applications data platforms chapter 10 blockchain chapter 11 performance excellence chapter 12 environment health safety quality ehsq and cybersecurity chapter 13 voice of the customer voc chapter 14 elements of a quality 4 0 strategy chapter 15 playbook for transformation

<u>Robotic Process Automation Projects</u> 2020-05-26 learn rpa by building business solutions such as erp and crm automation software robots and intelligent process automation from scratch key featuresuse popular rpa tools automation anywhere a2019 and uipath for real world task automationbuild automation solutions for domains such as system administration finance hr supply chain and customer relationsextend your rpa capabilities by implementing intelligent process automation with apis and aibook description robotic process automation helps businesses to automate monotonous tasks that can be performed by machines this project based guide will help you progress through easy to more advanced rpa projects you ll learn the principles of rpa and how to architect solutions to meet the demands of business automation along with exploring the most popular rpa tools uipath and automation anywhere in the first part you ll learn how to use uipath by building a simple helpdesk ticket system you ll then automate crm systems by integrating excel data with uipath after this the book will guide you through building an ai based social media moderator using google cloud vision api in the second part you ll learn about automation anywhere s latest cloud rpa platform a2019 by creating projects such as an automated erp administration system an ai bot for order and invoice processing and an automated emergency notification system for employees later you ll get hands on with advanced rpa tasks such as invoking apis before covering complex concepts such as artificial intelligence ai and machine learning in automation to take your understanding of rpa to the next level by the end of the book you ll have a solid foundation in rpa with experience in building real world projects what you will learnexplore rpa principles techniques and tools using an example driven approachunderstand the basics of uipath by building a helpdesk ticket generation systemautomate read and write operations from excel in a crm system using uipathbuild an ai based social media moderator platform using google cloud vision api with uipathexplore how to use automation anywhere by building a simple sales order processing systembuild an automated employee emergency reporting system using automation anywheretest your knowledge of building an automated workflow through fun exerciseswho this book is for this rpa book is for enterprise application developers software developers business analysts or any professional who wants to implement rpa across various domains of the business the book assumes some understanding of enterprise systems computer programming experience will also be beneficial

The Digital Factory 2022-01-05 in recent years tech companies such as google and facebook have rocked the world as

they have seemingly revolutionized the culture of work we ve all heard stories of lounges outfitted with ping pong tables kitchens with kombucha on tap and other amenities that supposedly foster creative thinking nothing could seem further from earlier workplaces associated with a different revolution in capitalism factories in which employees are required to perform highly circumscribed tasks as quickly as possible to meet quotas for next to no pay however as moritz altenried shows in the digital factory these types of workplaces are not so far from the googleplex as we might think while recent accounts of the transformation of labor after the demise of the factory highlight the creative communicative immaterial or artistic features of contemporary labor altenried uncovers the factory like conditions in which many new digital workers perform their jobs these workers such as video game testers social media content moderators and amazon fulfillment center workers perform highly repetitive unskilled tasks for low and often contingent wages based on more than five years of research in different sites using ethnography and interviews combined with an analysis of infrastructural technologies altenried s book gives us a first hand account of many new forms of digital labor that drive contemporary capitalism he shows that though today s factories might look and feel different than they did 150 years ago they still follow the same logics and produce the same unequal outcomes

Digital System Design Automation 1975-01-01 covers system level simulation register transfer languages their use in automated digital system design including rt level simulation translation automated microprogramming techniques data base design file management

Product Lifecycle Management (PLM) 2020-06-24 as featured on cnn forbes and inc bookauthority identifies and rates the best books in the world based on recommendations by the world s most successful business leaders and experts winning the spot of 19 out of 26 on the 2020 bookauthority best new industrial management books of all time winning the spot of 3 out of 8 on the 2021 bookauthority best new industrial management books to read in 2021 winning the spot of 5 out of 11 on the 2021 bookauthority best new product design books to read in 2021 2020 taylor francis award winner for outstanding professional book product lifecycle management plm a digital journey using industrial internet of things iiot provides a summary of the essential topics of product lifecycle management plm and the industrial internet of things iiot in the era of industry 4 0 the book discusses emerging technologies their contribution towards enhancing product design development and manufacturing it also presents the integration of plm enterprise resource planning erp and manufacturing execution system mes along with iiot as well the integration of mechanical electronic components embedded systems firmware and software focusing on smart design development and manufacturing in the digital transformation journey the book provides a high level overview of how the smart product development through smart manufacturing materializes within the smart ecosystem manufacturing professionals designers mechanical electrical electronics instrumentation and industrial engineers information and communication technology consultants and those working in production planning process control and operations will find this book invaluable

Digital Twin Driven Smart Manufacturing 2019-02-07 digital twin driven smart manufacturing examines the background

latest research and application models for digital twin technology and shows how it can be central to a smart manufacturing process the interest in digital twin in manufacturing is driven by a need for excellent product reliability and an overall trend towards intelligent and connected manufacturing systems this book provides an ideal entry point to this subject for readers in industry and academia as it answers the questions a what is a digital twin b how to construct a digital twin c how to use a digital twin to improve manufacturing efficiency d what are the essential activities in the implementation of a digital twin e what are the most important obstacles to overcome for the successful deployment of a digital twin f what are the relations between digital twin and new technologies g how to combine digital twin with the new technologies to achieve high efficiency and smartness in manufacturing this book focuses on these problems as it aims to help readers make the best use of digital twin technology towards smart manufacturing analyzes the differences synergies and possibilities for integration between digital twin technology and other technologies such as big data service and internet of things discuss new requirements for a traditional three dimension digital twin and proposes a methodology for a five dimension version investigates new models for optimized manufacturing prognostics and health management and cyber physical fusion based on the digital twin

Digital Business Strategy 2020-10-31 did you google something today or check your facebook and instagram newsfeed did you see the funny video that went viral if you did any of these things then you re inevitably a part of the digital world and so are your customers your brand is not about your company logo it is not about advertising alone it is not about corporate identity either your brand is about passion belonging confidence security and action a set of unique values that define your company but your customers are not going to see all of that if you don t deliver your message effectively enough that s where your digital strategy comes into play digital strategy or digital marketing is the promotion of products or brands via an electronic media by using digital channels and methods you can analyze your marketing campaigns to understand what is working and what isn t typically in real time a digital strategy is a form of strategic management and a business answer or response to a digital question often best addressed as part of an overall business strategy a digital strategy is often characterized by the application of new technologies to existing business activities it also focuses on the enablement of new digital capabilities to businesses a digital strategy can be formulated and implemented through a variety of different approaches which is what you re going to uncover in this guide your strategy is going to turn your goals and vision into reality and it is imperative that you get it right all the marketing initiatives that were once carried out the traditional way now need to be transferred to the digital space because that s where the future is digital business strategy is going to take an insightful look at an in depth look at digital marketing and why your businesses needs it the job scope of a digital marketer and what s expected of them how digital marketing works for businesses the types of content you should be creating why a proper digital strategy in place is needed for your business the budget and mistakes you need to avoid an understanding of marketing automation and why your business needs it the benefits of automation and the tools you should be investing in successful strategies to

implement automation mistakes and how to avoid them for your business to thrive in the digital era you need to identify the opportunities and or challenges in a business where online assets can provide a solution that s why you need a sound strategy in place and that is what this guide is going to equip you with

Workflow Automation with Microsoft Power Automate 2022-08-19 make your organization more productive and simplify your workflow by using microsoft power automate for business process automation purchase of the print or kindle book includes a free ebook in pdf format key features learn the latest in power automate with updated user interface visuals and new technology included apply practical knowledge like managing user inputs documents approvals and database storage create flows that integrate with services both inside and outside the microsoft 365 ecosystem book description ms power automate is a workflow automation tool built into ms 365 to help businesses automate repetitive tasks or trigger business processes without user intervention it is a low code tool that is part of the microsoft applications framework the power platform if you are new to power automate this book will give you a comprehensive introduction and a smooth transition from beginner to advanced topics to help you get up to speed with business process automation complete with hands on tutorials and projects this easy to follow guide will show you how to configure automation workflows for business processes between hundreds of applications using examples within microsoft and including third party apps like dropbox and twitter once you understand how to use connectors triggers and actions to automate business processes you ll learn how to manage user input documents and approvals as well as interact with databases this edition also introduces new power automate features such as using robotic process automation rpa to automate legacy applications interacting with the microsoft graph api and working with artificial intelligence models to do sentiment analysis by the end of this digital transformation book you ll have mastered the basics of using power automate to replace repetitive tasks with automation technology what you will learn learn the basic building blocks of power automate capabilities explore connectors in power automate to automate email workflows discover how to make a flow for copying files between cloud services configure power automate desktop flows for your business needs build on examples to create complex database and approval flows connect common business applications like outlook forms and teams learn the introductory concepts for robotic process automation discover how to use ai sentiment analysis who this book is for this book is excellent for information workers and power users who are looking to automate repetitive tasks for their organizations or for projects they are undertaking to make the most of this book you should have some basic exposure to the ms 365 platform

Research Anthology on Cross-Disciplinary Designs and Applications of Automation 2021-10-29 throughout human history technological advancements have been made for the ease of human labor with our most recent advancements it has been the work of scholars to discover ways for machines to take over a large part of this labor and reduce human intervention these advancements may become essential processes to nearly every industry it is essential to be knowledgeable about automation so that it may be applied research anthology on cross disciplinary designs and applications of automation is a comprehensive resource on the emerging designs and application of automation this

collection features a number of authors spanning multiple disciplines such as home automation healthcare automation government automation and more covering topics such as human machine interaction trust calibration and sensors this research anthology is an excellent resource for technologists it specialists computer engineers systems and software engineers manufacturers engineers government officials professors students healthcare administration managers ceos researchers and academicians

No Cost Contract Automation 2021-02-28 create a complete contract lifecycle management system using microsoft 365 software after reading and completing the chapters of the book you will have your own custom clm without buying any extra software

Construction and Building Automation 2022-07-26 this book is intended to be used as a textbook in undergraduate civil engineering and construction courses to introduce cutting edge mechanical electrical and computer science topics that are needed for civil and construction engineers to collaborate in inter disciplinary automation projects part i introduces the basics of hardware and software technologies that are needed for implementing automation in buildings and construction the content begins with the fundamental concepts and uses practical examples to bring out the benefits of automation through case studies that are easy to understand no other book uniformly treats the subject of automation within the context of buildings and construction activities while the technology needed for these two application domains are similar the unifying principles are not well recognized this book will bring out the fundamental principles that could form the basis of application to these two domains for example it will become clear that sensors actuators and controllers along with smart control strategies could be used for automating tasks within buildings and on construction sites part ii of the book will introduce key advances in the areas of machine learning and artificial intelligence that are significant for the intelligent control of buildings and construction equipment control algorithms and techniques for data analytics are explained in a form that is appropriate for non computer science students each chapter contains several hands on exercises meant to apply the principles that are covered these include numerical problems as well as design and analysis examples this new textbook introduces hardware and software needed for automating engineering tasks presents examples of applications in the control of building systems illustrates of the use of automation for improving construction processes provides a lucid introduction to advanced computing concepts machine learning artificial intelligence and control algorithms to construction and engineering students it is sure to be essential reading for a growing number of courses in smart construction building automation robotics intelligent buildings and construction 4 0 supplementary material including answers to exercises in the book will be provided on the author s website bennyraphael com book2022

This is Marketing Automation! This is Sales Automation! 2020-11-26 do you want sales and marketing on autopilot you will love this book you will get down to earth written and hands on inspiration and ideas onsocial media using ai for finding exciting content automatically posting on nearly every network automatically grow your audienceemail marketing using ai to publish automated newsletters sending out emails based on interests and

interactionssales funnel automating your sales funnel creating automated sales pipeline automating prospecting use chatbots to qualify leads following up your leads automatically following up your fair contacts automaticallyremember you can make money but you can t make time

Using Artificial Neural Networks for Analog Integrated Circuit Design Automation 2019-12-11 this book addresses the automatic sizing and layout of analog integrated circuits ics using deep learning dl and artificial neural networks ann it explores an innovative approach to automatic circuit sizing where anns learn patterns from previously optimized design solutions in opposition to classical optimization based sizing strategies where computational intelligence techniques are used to iterate over the map from devices sizes to circuits performances provided by design equations or circuit simulations anns are shown to be capable of solving analog ic sizing as a direct map from specifications to the devices sizes two separate ann architectures are proposed a regression only model and a classification and regression model the goal of the regression only model is to learn design patterns from the studied circuits using circuit s performances as input features and devices sizes as target outputs this model can size a circuit given its specifications for a single topology the classification and regression model has the same capabilities of the previous model but it can also select the most appropriate circuit topology and its respective sizing given the target specification the proposed methodology was implemented and tested on two analog circuit topologies

Building Automation and Digital Technologies 2022-03-17 building automation systems and digital technologies are highly relevant for the environmental and energy performance of buildings however a clear gap remains between architectural engineering and the use of such technologies building automation and digital technologies shows how to assimilate automation and digital technologies into making buildings smarter and more environmentally sustainable this book shows why architects need smart and digital systems in building design and construction and promotes innovative technological tools for improving sustainability it focuses on the development of automated environmental conditions and how new technology informs architectural engineering the book also provides new evidence on the impact of building automation systems and digital technologies such as the internet of things artificial intelligence and information and communication technology for developing a performance based approach to the environmental sustainability of buildings and provides a key reference for architects on how digital technology can inform their practice its four chapters cover developing strategies for improving sustainable and smart buildings architectural practice and construction technology creativity and innovation in building automation systems and the use phase of buildings building automation and digital technologies meets a critical need for a sustainable and smart built environment from an architectural perspective providing an important reference to architects and professionals in related fields by demonstrating the assimilation of the latest information and automation technologies puts forward an architectural perspective on the design and construction of smart sustainable buildings presents the use of digital technologies for design and construction bridges the gap between architectural engineering and the use of automation and digital technology considers the development

of automated environmental conditions and new technology

Service Automation Framework 2017-01-01 service automation is the concept of achieving customer loyalty by the use of automated technologies and builds upon a large demographic and sociological trend we are the self service generation who are able to make our own decisions the self service generation is nowadays used to search evaluate and purchase products online for a number of years now this book will give you deep insight into the concept of service automation the concept by which you can automate customer service in your organization if you adequately apply service automation in your organization you will see both employee and customer satisfaction rise and significantly increase the number of people who like your company the service automation framework saf has been created to find a methodical way to discuss service automation it offers a simplistic version of any organization which includes a number of processes that every organization can think of to systematically enhance its service as with any model it is a simplified version of reality but it structures the mind and provides uniform terminology when discussing the contents with co workers and colleagues nothing more nothing less we encourage you to adapt and apply the model in any way that you see fit and which helps you and your organization this book is intended for anyone who has ever experienced that the level of service in his organization can be increased and is looking for guidance on a step by step model to achieve this whether you are an entrepreneur executive consultant or work in the field of academia

Advanced Manufacturing and Automation XIII 2021-05-27 a staggering 70 of digital transformations have failed as per mckinsey the key reason why enterprises are failing in their digital transformation journey is because there is no standard framework existing in the industry that enterprises can use to transform themselves to digital there are several books that speak about technologies such as cloud artificial intelligence and data analytics in silos but none of these provides a holistic view on how enterprises can embark on a digital transformation journey and be successful using a combination of these technologies formula 4 0 is a methodology that provides clear guidance for enterprises aspiring to transform their traditional operating model to digital enterprises can use this framework as a readymade guide and plan their digital transformation journey this book is intended for all chief executives software managers and leaders who intend to successfully lead this digital transformation journey an enterprise can achieve success in digital transformation only of it can create an it platform that will enable them to adopt any new technology seamlessly into existing it estate deliver new products and services to the market in shorter durations make business decisions with it as an enabler and utilize automation in all its major business and it processes achieving these goals is what defines a digital enterprise formula 4 0 is a methodology for enterprises to achieve these goals and become digital essentially there is no existing framework in the market that provides a step by step guide to enterprises on how to embark on their successful digital transformation journey this book enables such transformations overall the formula 4 0 is an enterprise digital transformation framework that enables organizations to become truly digital

Formula 4.0 for Digital Transformation 2019-10-23 together we walk along the digital transformation journey of

implementing new technology and learn from industry thought leaders like guy kirkwood chief evangelist from uipath director of conversational ai company artificial solutions and other rpa and ai experts and ceos we go through the entire rpa robotic process automation lifecycle from idea to implementation to scalable intelligent automation with each chapter ending with questions to ask your centre if excellence team this book takes you through lean ia s aeio you methodology to scale successfully discussing tools techniques and roles and responsibilities you will notice that the aeio you method which you can use to bring rpa into your company can also be used for introducing any new technology we explore at the end of this book how you can repeat these steps to bring artificial intelligence into the fabric of your organization s business processes and teams our aeio you method combines lean thinking and change management with rpa best practices from a business perspective rather than a technical one

Business @ the Speed of Bots 2013-11-21 technology is rapidly advancing in all areas of society including agriculture in both conventional and organic systems there is a need to apply technology beyond our current approach to improve the efficiency and economics of management weeds in particular have been part of cropping systems for centuries often being ranked as the number one production cost now public demand for a sustainably grown product has created economic incentives for producers to improve their practices yet the development of advanced weed control tools beyond biotech has lagged behind an opportunity has been created for engineers and weed scientists to pool their knowledge and work together to fill the gap in managing weeds in crops never before has there been such pressure to produce more with less in order to sustain our economies and environments this book is the first to provide a radically new approach to weed management that could change cropping systems both now and in the future

Automation: The Future of Weed Control in Cropping Systems 2021-03-04 this book presents the select proceedings of the international conference on automation signal processing instrumentation and control i casic 2020 the book mainly focuses on emerging technologies in electrical systems iot based instrumentation advanced industrial automation and advanced image and signal processing it also includes studies on the analysis design and implementation of instrumentation systems and high accuracy and energy efficient controllers the contents of this book will be useful for beginners researchers as well as professionals interested in instrumentation and control and other allied fields

Advances in Automation, Signal Processing, Instrumentation, and Control 2021-05-10 this book brings together experts from research and practice it includes the design of innovative robot process automation rpa concepts the discussion of related research fields e g artificial intelligence ai the evaluation of existing software products and findings from real life implementation projects similar to the substitution of physical work in manufacturing blue collar automation robotic process automation tries to substitute intellectual work in office and administration processes with software robots white collar automation the starting point for the development of rpa was the observation that despite the use of process oriented enterprise systems such as erp crm and bpm systems additional manual activities are still indispensable today in the rpa approach these manual activities are

learned and automated by software robots either by defining rules or by observing manual activities rpa is related to business process management machine learning and artificial intelligence tools for rpa originated from dedicated stand alone software today rpa functionalities are also integrated into elaborated process management suites from a conceptual perspective rpa can be structured into input components sensors in the wide sense an intelligence center and output components actuators in the wide sense from a strategic perspective the impact of rpa can be related to the support of existing tasks the complete substitution of human activities and the innovation of processes as well as business models at present high expectations are related to the use of rpa in the improvement of software supported business processes manual activities are learned and automated by software robots that interact with existing applications via the presentation layer in combination with artificial intelligence ai as well as innovative interfaces e g voice recognition rpa creates a novel level of automation for office and administration processes its benefit potential reaches a return on investment roi up to 800 that is documented in various case studies

Robotic Process Automation 2018 collaboration between those working in product development and production is essential for successful product realization the swedish production academy spa was founded in 2006 with the aim of driving and developing production research and higher education in sweden and increasing national cooperation in research and education within the area of production this book presents the proceedings of sps2024 the 11th swedish production symposium held from 23 to 26 april 2024 in trollhättan sweden the conference provided a platform for spa members as well as for professionals from industry and academia interested in production research and education from around the world to share insights and ideas the title and overarching theme of sps2024 was sustainable production through advanced manufacturing intelligent automation and work integrated learning and the conference emphasized stakeholder value the societal role of industry worker wellbeing and environmental sustainability in alignment with the european commission s vision for the future of manufacturing the 59 papers included here were accepted for publication and presentation at the symposium after a thorough review process they are divided into 6 sections reflecting the thematic areas of the conference which were sustainable manufacturing smart production and automation digitalization for efficient product realization circular production industrial transformation for sustainability and the integration of education and research highlighting the latest developments and advances in automation and sustainable production the book will be of interest to all those working in the field

Testing in the Digital Age 2024-05-07 the second of two volumes in the electronic design automation for integrated circuits handbook second edition electronic design automation for ic implementation circuit design and process technology thoroughly examines real time logic rtl to gdsii a file format used to transfer data of semiconductor physical layout design flow analog mixed signal design physical verification and technology computer aided design tcad chapters contributed by leading experts authoritatively discuss design for manufacturability dfm at the nanoscale power supply network design and analysis design modeling and much more new to this edition major updates

appearing in the initial phases of the design flow where the level of abstraction keeps rising to support more functionality with lower non recurring engineering nre costs significant revisions reflected in the final phases of the design flow where the complexity due to smaller and smaller geometries is compounded by the slow progress of shorter wavelength lithography new coverage of cutting edge applications and approaches realized in the decade since publication of the previous edition these are illustrated by new chapters on 3d circuit integration and clock design offering improved depth and modernity electronic design automation for ic implementation circuit design and process technology provides a valuable state of the art reference for electronic design automation eda students researchers and professionals

Sustainable Production Through Advanced Manufacturing, Intelligent Automation and Work Integrated Learning 2017-02-03 the digitalization robotization and automatization of society and of economy and the use of artificial intelligence embrace chances and challenges from an ethical perspective due to their moral capability technological progress must receive its ethical orientation from humans this book discusses digital transformation from an ethical standpoint after an introduction on the correlation between morality and technology and an assessment of the moral capability of technologies the book introduces in a first part ethical principles serving the evaluation of the digital transformation of society and of economy and the use of artificial intelligence in a second part the digital transformation and its chances and challenges are analyzed from an ethical perspective in a third part ethical approaches addressing the challenges are developed one of the research focuses of peter g kirchschlaeger department of theology at the university of lucerne and visiting fellow at yale university lies on digitalization robotization and automatization of society and of economy and the use of artificial intelligence from an ethical perspective

Electronic Design Automation for IC Implementation, Circuit Design, and Process Technology 2021-03 automation and computational intelligence for road maintenance and management a comprehensive computational intelligence toolbox for solving problems in infrastructure management in automation and computational intelligence for road maintenance and management a team of accomplished researchers delivers an incisive reference that covers the latest developments in computer technology infrastructure management the book contains an overview of foundational and emerging technologies and methods in both automation and computational intelligence as well as detailed presentations of specific methodologies the distinguished authors emphasize the most recent advances in the maintenance and management of infrastructure robotics automated inspection remote sensing and the applications of new and emerging computing technologies including artificial intelligence evolutionary computing fuzzy logic genetic algorithms knowledge discovery and engineering and more automation and computational intelligence for road maintenance and management explores a universal synthesis of the cutting edge in parameters and indices to evaluate models it also includes thorough introductions to management science and the latest methods of automation and the structure and framework of automation and computing intelligence comprehensive explorations of advanced image processing techniques recent advances in fuzzy and diagnosis automation practical discussions of

segmentation and fragmentation and different types of features and feature extraction methods in depth examinations of methods of classification along with various developed methodologies and models of quantification evaluation and indexing in automation perfect for postgraduate students in road and transportation engineering evaluation and assessment automation and computational intelligence for road maintenance and management will also earn a place in the libraries of researchers interested in or working with the evaluation and assessment of infrastructure

<u>Digital Transformation and Ethics</u> 2022-07-13 volume is indexed by thomson reuters cpci s wos this collection of over 429 peer reviewed papers on materials and mechanical engineering is divided into the chapters 1 materials engineering and mechanical engineering 2 manufacturing and production processes 3 automotive engineering and industry application it provides an authoritative overview of the subject

<u>Automation and Computational Intelligence for Road Maintenance and Management</u> 2011-05-03 principles of automation and control is a concise textbook that explains the basics of robust automation and control strategies it demonstrates the essentials for meeting consumer needs and ensuring cost effective manufacturing processes without compromising product quality with a focus on industry 4 0 this book explores the principles and applications of automation in industrial systems emphasizing efficiency profitability and flexibility the thirteen chapters cover automated processes control theory computer control devices industrial automation tools and practical examples of system automation the text uses a multidisciplinary approach with simple language to cater to the needs of readers at all levels learners beginner engineers and professionals seeking to expand their knowledge in automation and control theory and practice real world case studies and empirical findings are also highlighted which show how automated business solutions can enhance performance

Recent Trends in Materials and Mechanical Engineering Materials, Mechatronics and Automation 1975 automation a mixture of algorithms robots software and avatars is transforming all types of jobs and industries this book responds to one critical question for the design and construction industry how are architects engineers and contractors using information technology to further automate their practices addressing the use of new digital technologies particularly parametric automation for design and construction in the building industry this book looks at how technologically advanced architectural and engineering practices are semi automating their design processes by using sophisticated algorithms to transform their workflows the book also documents a set of firms that are further advancing automation by using pre fabrication modularization and custom designs via robotics

Computerized Laboratory Systems 2023-09-28 this book provides a comprehensive in depth look into the practical application of automationml edition 2 from an industrial perspective it is a cookbook for advanced users and describes re usable pattern solutions for a variety of industrial applications and how to implement it in software just to name some automationml modelling of aas mtp scd opc ua automation components automation projects drive configurations requirement models communication systems electrical interfaces and cables or semantic integration aspects as eclass integration or handling of semantic heterogeneity this book guides through the universe of

automationml from industrial perspective it is written by automationml experts that have industrially implemented automationml in pattern solutions for a large variety of applications this book is structured into three major parts part i software implementation for developers part ii re usable industrial pattern solutions and domain models part iii outlook into future automationml applications additional material to the book and more information about automationml on the website automationml org about automationml publications amlbook

Principles of Automation and Control 2014-11-01 automation and artificial intelligence ai are transforming the world and contributing to the overall economic growth with futuristic approach automation and ai are future decoded with the recent technological progress pushing the frontier of what machines can do and doing till today this book provides insights that society needs these improvements to provide value to contribute to the growth and make onceunimaginable progress on some of our most difficult societal challenges ai has made especially large strides in recent years as machine learning algorithms have become more sophisticated and made use of huge increases in computing power and of the exponential growth in data available to train them these technologies are already generating value in various products and services and companies across sectors use them in an array of processes to personalize product recommendations to making you pro in sports to making you commute as well as assisting you in growing more food healthy food providing you holistic living

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