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Robotic Process Automation Rpa Within Danske Bank

2022-03-11

BARKER PETERSEN

Create software robots and automate business processes Springer

Robotic Process Automation with Automation Anywhere Techniques to fuel business productivity and intelligent automation using RPA Packt Publishing Ltd

Guide to Building Software Robots, Automate Repetitive Tasks and Become an RPA Consultant Independently Published

We have never lived at a time of faster and more transformative technological and societal changes. It can be hard for executives to keep up with the developments and shifts. This book cuts through all of the hype and presents the key business trends anyone should be aware of now as they will shape businesses into the foreseeable future. Business Trends in Practice includes case studies across all industries, with companies such as: Tesla, Ocado, Netflix, Microsoft, Google, Alibaba, Rolls Royce, Mercedes Benz, Apple, and many more. Some of the key trends the author will examine include: The AI revolution Robots and business processes automation Remote working, working from home and new flexibility Social & environmental Responsibility Increased Diversity As part of Bernard Marr's popular 'In Practice' series, Business Trends in Practice will help you identify the key business trends that will keep you one step ahead of the competition.

The Robotic Process Automation Handbook John Wiley & Sons

Learn RPA using Automation Anywhere with step-by-step practical implementation KEY FEATURES ●

Get an overview of different stages in the Business Process Automation ● Learn how to use Automation Anywhere to automate business processes using commands such as Excel, Email, PDF, Database, XML, Web Services etc. ● Learn how to use commands together to automate process flows and standard industry use cases ● Learn how to develop bots in Bot Creator ● Learn to use Citrix AIsense to capture objects in Citrix, Virtual Machine and Remote environment DESCRIPTION The book starts by giving an overview of Robotic Process Automation (RPA), its tools, and industry use cases. You will then get familiar with the Automation Anywhere Enterprise components and Architecture. Moving on, you will deep dive into the options provided in a Client application such as recorders, workbench, metabot designer and the types of bots in Automation Anywhere. You will then come across the practical implementation of variables in Automation. The book will then show how to implement commands such as Error Handling, XML, Web Services, FTP, OCR, PGP, String Operation, Files & Folders, etc. You will also get familiar with the working of Workflows and Workflow Manager. Towards the end, the book will teach you how to transfer bots to and from the Web Control Room and schedule bots from the Web Control Room. By the end of the book, you will be able to implement different commands provided in Automation Anywhere. WHAT YOU WILL LEARN ● Understand the fundamentals of Business Process Automation and its stages. ● Use commands such as Excel, PDF, Email, Database, Object Cloning, Loops, If-Else etc. together to create a bot to automate industry use cases. ● Use Variables, MetaBots, IQ bots and Citrix AIsense to incorporate features such as Reusability, Cognitive Automation capabilities and Object Capturing in Citrix, Virtual Machine and Remote environment. ● Learn how to create reusable bots using MetaBots ● Develop bots in Bot Creator and upload and schedule them in Web Control Room to be automatically executed on Bot Runner. WHO THIS BOOK IS FOR The book is for anyone who wants to become a RPA developer. Professionals working in this field who want to upgrade themselves will find this book helpful. TABLE OF CONTENTS 1. Chapter 1: Automation Overview 2. Chapter 2: Introduction of RPA 3. Chapter 3: AAE Architecture 4. Chapter 4: Client Application 5. Chapter 5: Variables 6. Chapter 6: Use Cases 7. Chapter 7: Command Library 8. Chapter 8: Metabot 9. Chapter 9: Recorder 10. Chapter 10: Credential Variable 11. Chapter 11: IQ Bot 12. Chapter 12: Workflows 13. Chapter 13: System & Audit Logs 14. Chapter 14: Bot Transfer

RPA Fundamentals and Build a Robot Wiley

This book integrates the material of the lecture series "Blockchain and Robotic Process Automation", offered at Kiel University. The lecture series sheds light on current research topics on blockchain and robotic process automation (RPA) also in combination with business process management (BPM) or process mining. In this series, leading scientists and business experts give insights into the use of the blockchain technology and RPA. The seven contributions included offer a general introduction into blockchain and smart contracts, and detail the extraction of meaningful events for process mining from blockchain, challenges of blockchain-based collaborative business processes, executing Decision Model and Notation decisions on the blockchain, a blockchain-based solution for digital payment, blockchain use cases in transportation and logistics, and automatically identifying process automation candidates using natural language processing. Overall, the book provides researchers and graduate students with a basic introduction into blockchain, its applications, useful combinations of BPM and blockchain, and use cases for RPA.

The Automated Enterprise Springer Nature

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.

A Guide to Implementing RPA Systems iUniverse

This book presents a rich compilation of real-world cases on digitalization, the goal being to share first-hand insights from respected organizations and to make digitalization more tangible. As virtually every economic and societal sector is now being challenged by emerging technologies, the

digital economy is a highly volatile, uncertain, complex and ambiguous place – and one that holds substantial challenges and opportunities for established organizations. Against this backdrop, this book reports on best practices and lessons learned from organizations that have succeeded in overcoming the challenges and seizing the opportunities of the digital economy. It illustrates how twenty-one organizations have leveraged their capabilities to create disruptive innovations, to develop digital business models, and to digitally transform themselves. These cases stem from various industries (e.g. automotive, insurance, consulting, and public services) and countries, reflecting the many facets of digitalization. As all case descriptions follow a uniform schema, they are easily accessible, and provide insightful examples for practitioners as well as interesting cases for researchers, teachers and students. Digitalization is reshaping business on a global scale, and it is evident that organizations must transform to thrive in the digital economy. Digitalization Cases provides first-hand insights into the efforts of renowned companies. The presented actions, results, and lessons learned are a great inspiration for managers, students, and academics. Anna Kopp, Head of IT Germany, Microsoft Understanding digitalization in all its facets requires knowledge about its opportunities and challenges in different contexts. Providing 21 cases from different companies all around the world, Digitalization Cases makes an important contribution toward the comprehensibility of digitalization – from a practical and a scientific point of view. Dorothy Leidner, Ferguson Professor of Information Systems, Baylor University This book is a great source of inspiration and insight on how to drive digitalization. It shows easy to understand good practice examples which illustrate opportunities, and at the same time helps to learn what needs to be done to realize them. I consider this book a must-read for every practitioner who cares about digitalization. Martin Petry, Chief Information Officer and Head of Business Excellence, Hilti

Robotic Process Automation Walter de Gruyter GmbH & Co KG

ROBOTIC PROCESS AUTOMATION (RPA) software exploded on the stage of business technology in the mid-2010s and quickly became the fastest growing technology trend of the last fifty years. By 2020 RPA has grown into a nearly \$10 billion industry, and continues to grow at high-double-digit rates. RPA has been viewed as a miracle technology that allows companies to automate their persistent manual processes, making them better, faster and cheaper with nearly no cost or effort. The reality has proven otherwise. RPA promised fast, cheap and good automation of business processes, with return on investment measured in weeks or days. But, by 2018 reality began to settle in. RPA was more difficult than believed and the majority of organizations were failing with RPA, rather than succeeding. By 2020, the RPA wave was crashing and most organizations were scaling back, or abandoning, their RPA initiatives. In 2020, if you google the phrase "RPA implementation failure" you'll receive over 5 million hits. Thousands of clients are struggling to make their RPA robots, or "Bot", work correctly and generate the sorts of benefits promised. The vast majority of clients fail to realize the expected gains, and RPA has been seen to stumble as a result of these consistently-poor results. What happened to RPA, and more importantly, why is it failing? This book is the result of five years of effort in putting RPA to work for major organizations all over the world. "Bots" details the author's lessons-learned in deploying thousands of bots at dozens of leading organizations. In this book, he explains why bots are failing to deliver the goods, and what it takes to make bots work in your organization. Author Chris Surdak ("Data Crush" and "Jerk") summarizes the results of five years of effort in deploying hundreds of bots for dozens of organizations around the world. Along the way he experienced any number of failures, missteps, hyperbole and errors as people tried to learn how to use this new technology. "Bots" lays out the eighteen different ways that bots seem to "fail" and how to avoid those failures with your own bots. "Bots" also discusses the next wave of cognitive bots and artificial intelligence, and how these technologies are even more finicky and difficult to succeed with. Over the next ten years cyber workers like bots will subsume an enormous amount of the work currently performed by humans. Their adoption is inevitable. "Bots" is your guide for how to leverage these digital workers effectively, before your competitors do!

Robotic Process Automation Strategy for Business Leaders Independently Published

"His approach to implementing RPA is thorough, well-researched and well executed. Highly recommended to anyone involved in the automation market." - CHIEF EVANGELIST OF UIPATH Have you just started using Robotic Process Automation (RPA), are you looking to start up an automation Centre of Excellence (CoE) in your company to leverage RPA and start building automation solutions, or perhaps you want your new CoE to mature and grow? This book is for Head of Automation/Digital Transformation, RPA Managers and Change Management who have or are soon to bring automation into their organization and looking to set up a CoE. Whether your current automation team is 2 or 20, understand the roles and responsibilities and set up of a good team. Identify which roles you may be missing, and what scalable framework your team can work to, in order to build an automation factory you can be proud of, which churns out solutions on demand. Also understand the behind the scene roles and considerations when it comes to maintaining your bots, things not mentioned as much in the media. You this book as a guide to ensure you're using the AEIO YOU method--Are your automation projects stalling or losing traction, or do you want to generate more opportunities and fill your pipeline? This book is for RPA Project Managers and Business Analysts who work in a CoE or Operational Excellence (OpEx) team and are responsible for delivering automation but are new to RPA. Whether you've only just heard of robotic process automation yesterday, been doing it for a few months or a couple years, its very valuable to understand the entire lifecycle from identifying the problem, to designing, building and testing the solution, to supporting the new capability. With this knowledge you will be able to design and build much more robust 'robots' and intelligent automation solutions, be able to boast much higher ROIs on your business cases. You'll be responsible for delivering much more benefits to your organizations or clients. Furthermore, you'll see how you can apply these same techniques and steps to implement advanced technologies like Artificial Intelligence. Use this book to check of each of the 36 steps of the AEIO YOU method--This book is also for COOs and Operations Directors and RPA sponsors who want a comprehensive view of how RPA/automation is implemented Read industry best practices and insights, to get high level steps on how to best implement Intelligent Automation. This will improve your awareness on what's been happening in the industry and what may be to come in the near future. This will help you understand the dos, don't, myths, challenges and benefits of automating your business processes, and give you a picture of what your team are doing ...or should be doing. So, you can pass this book to them to ensure they are adopting the AEIO YOU method--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 of Excellence team Together we walk along the

digital transformation journey, 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. This book takes you through Lean IA's 36 steps of the AEIO YOU methodology to scale successfully, discussing tools, techniques, 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.

Create Software robots and automate business processes with the leading RPA tool - UiPath Apress

Robotic Process Automation helps businesses to automate systems to reduce human efforts for tasks that are monotonous and can be performed by machines. This project based guide expands on the RPA principles and helps you build automation solutions for the real world using the most popular RPA tools - UiPath and Automation Anywhere Cloud.

Digital Workforce Packt Publishing Ltd

This book constitutes revised papers from the twelve International Workshops held at the 17th International Conference on Business Process Management, BPM 2019, in Vienna, Austria, in September 2019: The third International Workshop on Artificial Intelligence for Business Process Management (AI4BPM) The third International Workshop on Business Processes Meet Internet-of-Things (BP-Meet-IoT) The 15th International Workshop on Business Process Intelligence (BPI) The first International Workshop on Business Process Management in the era of Digital Innovation and Transformation (BPMInDIT) The 12th International Workshop on Social and Human Aspects of Business Process Management (BPMS2) The 7th International Workshop on Declarative, Decision and Hybrid approaches to processes (DEC2H) The second International Workshop on Methods for Interpretation of Industrial Event Logs (MIEL) The first International Workshop on Process Management in Digital Production (PM-DiPro) The second International Workshop on Process-Oriented Data Science for Healthcare (PODS4H) The fourth International Workshop on Process Querying (PQ) The second International Workshop on Security and Privacy-enhanced Business Process Management (SPBP) The first International Workshop on the Value and Quality of Enterprise Modelling (VenMo) Each of the workshops discussed research still in progress and focused on aspects of business process management, either a particular technical aspect or a particular application domain. These proceedings present the work that was discussed during the workshops.

19th IFIP WG 6.11 Conference on e-Business, e-Services, and e-Society, I3E 2020, Skukuza, South Africa, April 6-8, 2020, Proceedings, Part I Independently Published

Artificial intelligence touches nearly every part of your day. While you may initially assume that technology such as smart speakers and digital assistants are the extent of it, AI has in fact rapidly become a general-purpose technology, reverberating across industries including transportation, healthcare, financial services, and many more. In our modern era, an understanding of AI and its possibilities for your organization is essential for growth and success. Artificial Intelligence Basics has arrived to equip you with a fundamental, timely grasp of AI and its impact. Author Tom Taulli provides an engaging, non-technical introduction to important concepts such as machine learning, deep learning, natural language processing (NLP), robotics, and more. In addition to guiding you through real-world case studies and practical implementation steps, Taulli uses his expertise to expand on the bigger questions that surround AI. These include societal trends, ethics, and future impact AI will have on world governments, company structures, and daily life. Google, Amazon, Facebook, and similar tech giants are far from the only organizations on which artificial intelligence has had—and will continue to have—an incredibly significant result. AI is the present and the future of your business as well as your home life. Strengthening your prowess on the subject will prove invaluable to your preparation for the future of tech, and Artificial Intelligence Basics is the indispensable guide that you've been seeking. What You Will Learn Study the core principles for AI approaches such as machine learning, deep learning, and NLP (Natural Language Processing) Discover the best practices to successfully implement AI by examining case studies including Uber, Facebook, Waymo, UiPath, and Stitch Fix Understand how AI capabilities for robots can improve business Deploy chatbots and Robotic Processing Automation (RPA) to save costs and improve customer service Avoid costly gotchas Recognize ethical concerns and other risk factors of using artificial intelligence Examine the secular trends and how they may impact your business Who This Book Is For Readers without a technical background, such as managers, looking to understand AI to evaluate solutions.

How to Best Implement Rpa in an Organization BPB Publications

"A concise, insightful and sophisticated guide to maintaining humane values in an age of new machines."—The New York Times Book Review "While we need to rewrite the rules of the twenty-first-century economy, Kevin's book is a great look at how people can do this on a personal level to always put humanity first."—Andrew Yang You are being automated. After decades of hype and sci-fi fantasies, artificial intelligence is leaping out of research labs and into the center of our lives. Automation doesn't just threaten our jobs. It shapes our entire human experience, with AI and algorithms influencing the TV shows we watch, the music we listen to, the beliefs we hold, and the relationships we form. And while the age-old debate over whether automation will destroy jobs rages on, an even more important question is being ignored: How can we be happy, successful humans in a world that is increasingly built by and for machines? In Futureproof: 9 Rules for Humans in the Age of Automation, New York Times technology columnist Kevin Roose lays out a hopeful, pragmatic vision for how we can thrive in the age of AI and automation. He shares the secrets of people and organizations that have survived previous waves of technological change, and explains what skills are necessary to stay ahead of today's intelligent machines, with lessons like • Be surprising, social, and scarce. • Resist machine drift. • Leave handprints. • Demote your devices. • Treat AI like a chimp army. Roose rejects the conventional wisdom that in order to succeed in the AI age, we have to become more like machines ourselves—hyper-efficient, data-driven workhorses. Instead, he says, we should focus on being more human, and doing the kinds of creative, inspiring, and meaningful things even the most advanced robots can't do.

Learning Robotic Process Automation Apress

Robotic process automation (or RPA) is a form of business process automation technology based on metaphorical software robots (bots) or artificial intelligence (AI)/digital workers. It is sometimes referred to as software robotics (not to be confused with robot software). In traditional workflow automation tools, a software developer produces a list of actions to automate a task and interface to the back-end system using internal application programming interfaces (APIs) or dedicated scripting language. In contrast, RPA systems develop the action list by watching the user perform that task in the application's graphical user interface (GUI), and then perform the automation by repeating those tasks directly in the GUI. This can lower the barrier to use of automation in products that might not otherwise feature APIs for this purpose. The goal of this book is to provide you with the knowledge of RPA, its benefits, impacts on existing jobs and processes, and how you can be relevant in the present technological environment.

Automatic Business Apress

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.

Introducing Robotic Process Automation to Your Organization Apress

For your robotic process automation (RPA) program to be successful, you need to follow a general framework and governance model. This book covers, in detail, what they should look like and how to adapt them to your organization. Introducing Robotic Process Automation to Your Organization is structured to enable you, a novice to RPA, to successfully implement an RPA program at your company. RPA is rapidly growing in use, but is only starting to be taught at a university level. Many mid-level managers will be tasked with introducing an RPA program at their organizations as senior management learns of its efficacy, but will be unfamiliar with how to do so. This book provides you with the skills and information you need to make an informed decision. For decades, there has been much discussion about the fast pace of technology, the rapidly changing technology environment, and the need for companies to be on the cutting edge to remain competitive or even relevant. In this ever-changing environment, there is a need to know what can be done in terms of current processes, here and now, that will increase efficiency, benefit customers, and improve profitability. One option is RPA. This book includes information to assist you in getting the required buy-in and identifying the first few processes for automation. A structure for identifying opportunities on an ongoing basis is detailed, along with concepts that must be considered for solution design and deployment. Throughout the book there are several "pause and consider" statements to help you think about how principles pertain to your organization. Additionally, there are tips included that offer short, concrete suggestions on how to help implement the particular step being discussed. What You Will Learn Know the benefits of robotic process automation (RPA) Understand the limitations of RPA Ask the right questions to determine whether a process is a good candidate for automation Obtain buy-in from skeptics at the senior and middle manager levels, and from line workers Be familiar with the structure required for success Who This Book is For Middle managers who have either identified the need for robotic process automation (RPA) in their organization or have been directed by senior management to explore the possibility of introducing RPA to their organization; managers at all levels who hear about RPA, either through conferences, professional associations, or industry publications, and want to know more; students of business and technology who wish to broaden their understanding of important current trends.

The Benefits And Impacts Of Robotic Process Automation: How Do I Learn Rpa Automation? Packt Publishing Ltd

Document from the year 2020 in the subject Computer Science - Commercial Information Technology, , language: English, abstract: Numerous tasks in a company follow a structured process and could be automated. However, they occur too rarely to justify the automation effort. Robotic Process Automation (RPA) aims to change this: By having a robot emulate the input on an existing user interface, no changes are required in the target application. Automation is possible in a timely and cost-effective manner. So far, many companies have had positive experiences with RPA. However, there are also a number of failed projects. What factors determine success and failure when introducing an RPA system? Björn Freivogel explains how the introduction of robotic process automation succeeds. He first gives an overview of the topic of RPA and presents the features and functionality of RPA systems. Based on this, he examines which properties suitable processes should have and how important it is to systematically select process candidates. In his publication, Freivogel not only summarizes the theoretical basics, but also gives practical recommendations for the introduction of RPA in the company. From the content: - robotic desktop automation; - agility; - Agile methodology; - business process management system; - BPMS

Robotic Process Automation (RPA) in the Financial Sector Packt Publishing Ltd

The digital transformation is in full swing and fundamentally changes how we live, work, and communicate with each other. From retail to finance, many industries see an inflow of new technologies, disruption through innovative platform business models, and employees struggling to cope with the significant shifts occurring. This Fourth Industrial Revolution is predicted to also transform Logistics and Supply Chain Management, with delivery systems becoming automated, smart networks created everywhere, and data being collected and analyzed universally. The Digital Transformation of Logistics: Demystifying Impacts of the Fourth Industrial Revolution provides a holistic overview of this vital subject clouded by buzz, hype, and misinformation. The book is divided into three themed-sections: Technologies such as self-driving cars or virtual reality are not only electrifying science fiction lovers anymore, but are also increasingly presented as cure-all remedies to supply chain challenges. In The Digital Transformation of Logistics: Demystifying Impacts of the Fourth Industrial Revolution, the authors peel back the layers of excitement that have grown around new technologies such as the Internet of Things (IoT), 3D printing, Robotic Process Automation (RPA), Blockchain or Cloud computing, and show use cases that give a glimpse about the fascinating future we can expect. Platforms that allow businesses to centrally acquire and manage their logistics services disrupt an industry that has been relationship-based for centuries. The authors discuss smart contracts, which are one of the most exciting applications of Blockchain, Software as a Service (SaaS) offerings for freight procurement, where numerous data sources can be integrated and decision-making processes automated, and marine terminal operating systems as an integral node for shipments. In The Digital Transformation of Logistics: Demystifying Impacts of the Fourth Industrial Revolution, insights are shared into the cold chain industry where companies respond to increasing quality demands, and how European governments are innovatively responding to challenges of cross-border eCommerce. People are a vital element of the digital transformation and must be on board to drive change. The Digital Transformation of Logistics: Demystifying Impacts of the Fourth Industrial Revolution explains how executives can create sustainable impact and how competencies can be managed in the digital age - especially for sales executives who require urgent upskilling to remain relevant. Best practices are shared for organizational culture change, drawing on studies among senior leaders from the US, Singapore, Thailand, and Australia, and for managing

strategic alliances with logistics service providers to offset risks and create cross-functional, cross-company transparency. The Digital Transformation of Logistics: Demystifying Impacts of the Fourth Industrial Revolution provides realistic insights, a ready-to-use knowledge base, and a working vocabulary about current activities and emerging trends of the Logistics industry. Intended readers are supply chain professionals working for manufacturing, trading, and freight forwarding companies as well as students and all interested parties.

Introducing SAP Intelligent Robotic Process Automation Packt Publishing Ltd

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.

9 Rules for Humans in the Age of Automation Springer Nature

The implementation of Robotic Process Automation (RPA) is positioned to fundamentally transform the way the organizations operate, as RPA enables the organization to remove or significantly decrease the need for human labor in the functional areas in which automation is being deployed.

The problem is the use of RPA technology in global life sciences organizations is a new phenomenon and, as a result, its impact on worker performance factors such as productivity, motivation and autonomy has yet to be fully determined. The purpose of this qualitative narrative inquiry was to explore the worker perceptions of RPA technology implemented for packaged drug inspection using a smart technology tool called AVI (Automated Vision Inspection) in the manufacturing division of PharmaCo, a global life sciences organization. The central research question was: How do workers perceive the influence of RPA on their overall performance in the workplace? Sub-questions were: 1) How do life sciences professionals perceive the influence of RPA on their motivation? 2) How do life sciences professionals perceive the influence of RPA on their productivity? And 3) How do life sciences professionals perceive the influence of RPA on their autonomy? The researcher interviewed ten inspectors via secure Zoom videoconferencing technology. Analysis of the data revealed three major themes: 1) AVI introduction issues; 2) AVI implementation challenges; and 3) AVI predictions for the future. Four results were identified: (a) the lack of clear communication and lack of inspector engagement negatively impacted inspectors' understanding of AVI; (b) the inspector-reported impact of AVI on productivity was varied; (c) the lack of inspector engagement in early implementation of AVI was demotivating to inspectors; and (d) inspectors predict the implementation of AVI will result in positive impacts for the organization and a new set of skills for inspectors

Business Process Management Workshops Robotic Process Automation with Automation

AnywhereTechniques to fuel business productivity and intelligent automation using RPA

Robotic process automation (RPA) is a software technology that makes it easy to build, deploy, and manage software robots that emulate humans actions interacting with digital systems and software. Just like people, software robots can do things like understanding what's on a screen, complete the right keystrokes, navigate systems, identify and extract data, and perform a wide range of defined actions. But software robots can do it faster and more consistently than people, without the need to get up and stretch or take a coffee break. Are you seeking to establish up an automation Centre of Excellence (CoE) in your organization to leverage RPA and start creating automation solutions, or perhaps you want your new CoE to mature and grow? It's critical to understand the entire lifecycle of robotic process automation, from identifying the problem to designing, building, and testing the solution to supporting the new capability, whether you've only heard of it yesterday, have been doing it for a few months, or have been doing it for a few years. This book takes you through Lean IA's 36 steps of the AEIO YOU methodology to scale successfully, discussing tools, techniques, 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.