Design Process Automation Support Through Knowledge Base

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A previous work reached the design automation through the data transfering from Spreadsheets to Siemens NX CAD software using applications programmed with Visual Basic.

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Automation applied to an inefficient operation will magnify the inefficiency ; It can be easy to simply automate processes as they stand. While this approach can improve cost and quality, the real value lies in transformation. Process design helps you focus on the outcomes you want, and the how your people, process, and technology can support it.

~~The art of process design and automation | Genpact~~

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~~What is Design Automation? - DriveWorks~~
The BPA software systems that you can find to support your automation may differ by whether they can address AI and advanced analytics. BPA can address these aspects of process design: The ability to assess process workflows and redesign; Help in determining what automation elements are needed and how they fit into the larger business scenario

~~All About Business Process Automation | Smartsheet~~
Multiple tool support: This support must allow the development and execution of automated regression tests on multiple automation tool platforms. Figure 4: High-Level System Architecture. The Next Steps. Figure 5, Figure 6, and the following steps describe the framework design process and the framework development process.

~~Automation Framework Architecture for Enterprise Products ...~~
Automation demands a certain amount of clarity about the process right at the designing stage. If you don’t know the tasks involved and the people responsible for running the process, you can’t design and automate the workflow effectively. Further, process mapping can provide clarity to all employees and serve as a training resource as well.

~~Business Process Automation - Definition, Examples and ...~~
IMAGINiT provides process and design automation services to extend CAD tools and automate CAD processes as well as automate business logic. Employees work smarter, not harder . With computer automated design, it’s possible to eliminate repetitive tasks, increase speed and consistency, and condense processes to one or two mouse clicks.

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Process simulation is used more and more in process industry for process and control design, automation testing, operator training and support purposes. Various types of computer aided design tools are being used through the life cycle of the project; e.g. spreadsheet tools, steady state simulators, equipment design programs and dynamic simulators.

~~Design Automation - an overview | ScienceDirect Topics~~
The automated process moves step-by-step through the options set out below. It is then up to the advisor to choose the most appropriate route that most efficiently handles the customer’s request. 2. Robotic process automation (RPA)

~~An Introduction to... Process Automation Technology~~
Process Modelling for Automation is about taking the business view of the process and optimising it for execution in workflows and automation platforms. Optimise your process for execution Leonardo’s approach to developing an executable process is to have the business modeller and technical modeller work together to optimise the model.

The ?eld of Business Process Management (BPM) is marred by a seemingly e- less sequence of (proposed) industry standards. Contrary to other ?elds (e.g., civil or electronic engineering), these standards are not the result of a widely supported consolidationofwell-understoodandwell-establishedconceptsandpractices.Inthe BPM domain, it is frequently the case that BPM vendors opportunistically become involved in the creation of proposed standards to exert or maintain their in?uence and interests in the ?eld. Despite the initial fervor associated with such standardi- tion activities, it is no less frequent that vendors either choose to drop their support for standards that they earlier championed on an opportunistic basis or elect only to partially support them in their commercial offerings. Moreover, the results of the standardization processes themselves are a concern. BPM standards tend to deal with complex concepts, yet they are never properly de?ned and all-too-often not informed by established research. The result is a plethoraof languagesand tools, with no consensuson conceptsand their implem- tation. They also fail to provide clear direction in the way in which BPM standards should evolve. One can also observe a dichotomy between the “business” side of BPM and its “technical” side. While it is clear that the application of BPM will fail if not placed in a proper business context, it is equally clear that its application will go nowhere if it remains merely a motivational exercise with schemas of business processes hanging on the wall gathering dust.

Digital Computer Applications to Process Control presents the developments in the application of digital computers to the control of technical processes. This book discusses the control principles and includes as well direct feedback and feed forward control as monitoring and optimization of technical processes. Organized into five parts encompassing 77 chapters, this book begins with an overview of the two categories of microprocessor systems. This text then discusses the concept of a sensor controlled robot that adapts to any task, assures product quality, and eliminates machine tending labor. Other chapters consider the ergonomic adaptation of the human operator's working conditions to his abilities. This book discusses as well the self-tuning regulator for liquid level in the acetic acid evaporator and its actual performance in production. The final chapter deals with algebraic method for deadbeat control of multivariable linear time-invariant continuous systems. This book is a valuable resource for electrical and control engineers.

Design of complex artifacts and systems requires the cooperation of multidisciplinary design teams using multiple sophisticated commercial and non-commercial engine- ing tools such as CAD tools, modeling, simulation and optimization

software, en- neering databases, and knowledge-based systems. Individuals or individual groups of multidisciplinary design teams usually work in parallel and independently with various engineering tools, which are located on different sites, often for quite a long period of time. At any moment, individual members may be working on different versions of a design or viewing the design from various perspectives, at different levels of details. In order to meet these requirements, it is necessary to have efficient comput- supported collaborative design systems. These systems should not only automate in- vidual tasks, in the manner of traditional computer-aided engineering tools, but also enable individual members to share information, collaborate, and coordinate their activities within the context of a design project. Based on close international collaboration between the University of Technology of Compiègne in France and the Institute of Computing Technology of the Chinese Ac- emy of Sciences in the early 1990s, a series of international workshops on CSCW in Design started in 1996. In order to facilitate the organization of these workshops, an International Working Group on CSCW in Design (CSCWD) was established and an International Steering Committee was formed in 1998. The series was converted to int- national conferences in 2000 building on the success of the four previous workshops.

IMPROVE stands for "Information Technology Support for Collaborative and Distributed Design Processes in Chemical Engineering" and is a large joint project of research institutions at RWTH Aachen University. This volume summarizes the results after 9 years of cooperative research work. The focus of IMRPOVE is on understanding, formalizing, evaluating, and, consequently, improving design processes in chemical engineering. In particular, IMPROVE focuses on conceptual design and basic engineering, where the fundamental decisions concerning the design or redesign of a chemical plant are undertaken. Design processes are analyzed and evaluated in collaboration with industrial partners.

Industrial Process Automation Systems: Design and Implementation is a clear guide to the practicalities of modern industrial automation systems. Bridging the gap between theory and technician-level coverage, it offers a pragmatic approach to the subject based on industrial experience, taking in the latest technologies and professional practices. Its comprehensive coverage of concepts and applications provides engineers with the knowledge they need before referring to vendor documentation, while clear guidelines for implementing process control options and worked examples of deployments translate theory into practice with ease. This book is an ideal introduction to the subject for junior level professionals as well as being an essential reference for more experienced practitioners. Provides knowledge of the different systems available and their applications, enabling engineers to design automation solutions to solve real industry problems. Includes case studies and practical information on key items that need to be considered when procuring automation systems. Written by an experienced practitioner from a leading technology company

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vi The process is important! I learned this lesson the hard way during my previous existence working as a design engineer with PA Consulting Group's Cambridge Technology Centre. One of my earliest assignments involved the development of a piece of labo- tory automation equipment for a major European pharmaceutical manufacturer.Two things stick in my mind from those early days – first, that the equipment was always to be ready for delivery in three weeks and,second,that being able to write well structured Pascal was not sufficient to deliver reliable software performance. Delivery was ultimately six months late,the project ran some sixty percent over budget and I gained my first promotion to Senior Engineer. At the time it puzzled me that I had been unable to predict the John Clarkson real effort required to complete the automation project – I had Reader in Engineering Design, genuinely believed that the project would be finished in three Director, Cambridge Engineering weeks.It was some years later that I discovered Kenneth Cooper's Design Centre papers describing the Rework Cycle and realised that I had been the victim of “undiscovered rework”.I quickly learned that project plans were not just inaccurate,as most project managers would attest,but often grossly misleading,bearing little resemblance to actual development practice.

This book contains the refereed proceedings of the 12th International Conference on Business Process Modeling, Development and Support (BPMDS 2011) and the 16th International Conference on Exploring Modeling Methods for Systems Analysis and Design (EMMSAD 2011), held together with the 23rd International Conference on Advanced Information Systems Engineering (CAiSE 2011) in London, UK, in June 2011. The 22 papers accepted for BPMDS were selected from 61 submissions and cover a wide spectrum of issues related to business processes development, modeling, and support. They are grouped into sections on BPMDS in practice, business process improvement, business process flexibility, declarative process models, variety of modeling paradigms, business process modeling and support systems development, and interoperability and mobility. The 16 papers accepted for EMMSAD were chosen from 31 submissions and focus on exploring, evaluating, and enhancing current information modeling methods and methodologies. They are grouped in sections on workflow and process modeling extensions, requirements analysis and information systems development, requirements evolution and information systems evolution, data modeling languages and business rules, conceptual modeling practice, and enterprise architecture.

Business Process Management (BPM) has become one of the most widely used approaches for the design of modern organizational and information systems. The conscious treatment of business processes as significant corporate assets has facilitated substantial improvements in organizational performance but is also used to ensure the conformance of corporate activities. This Handbook presents in two volumes the contemporary body of knowledge as articulated by the world's leading BPM thought leaders. This second volume focuses on the managerial and organizational challenges of BPM such as strategic and cultural alignment, governance and the education of BPM stakeholders. As such, this book provides concepts and methodologies for the integration of BPM. Each chapter has been contributed by leading international experts. Selected case studies complement their views and lead to a summary of BPM expertise that is unique in its coverage of the most critical success factors of BPM. The second edition of this handbook has been significantly revised and extended. Each chapter has been updated to reflect the most current developments. This includes in particular new technologies such as in-memory data and process management, social media and networks. A further focus of this revised and extended edition is

on the actual deployment of the proposed theoretical concepts. This volume includes a number of entire new chapters from some of the world's leading experts in the domain of BPM.

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.