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KEY=DMIS - VICTORIA PHELPS

THE GUIDE TO COIL VIRTUAL EXCHANGE

IMPLEMENTING, GROWING, AND SUSTAINING COLLABORATIVE ONLINE INTERNATIONAL LEARNING

Stylus Publishing, LLC This is the authoritative guide to implementing COIL Virtual Exchange, conceived, and co-edited by one of the originators of this innovative approach to internationalization, Jon Rubin. COIL, the acronym for Collaborative Online International Learning, is a central modality of what has come to be known as virtual exchange. Since its first iteration in 2002, it has gradually established itself as a mature pedagogy that is being increasingly implemented across the world and is validated by a growing body of research. COIL Virtual Exchange at its most essential is a bi-lateral online exchange involving the integration of existing courses across two, or sometimes more, institutions that are geographically and/or culturally distinct. To launch a COIL VE course, the instructor of a class at a higher education institution in one location links online with a professor and his or her class in another region or country. Together, their students engage and develop joint projects, usually over a continuous five to eight-week period. Compared to the limited number of students worldwide who can engage in study abroad, COIL VE potentially opens up more equitable and inclusive participation in international education and intercultural experiences to all students, involves them in rigorous disciplinary and interdisciplinary studies, and promotes close and constructive engagement with students with different cultural perspectives. While many COIL courses are launched by individual instructors, based on their research connections and online outreach, they are being increasingly supported and led by dedicated COIL Coordinators who facilitate virtual exchanges and provide professional development. This comprehensive guide covers COIL VE pedagogy, provides examples of what takes place in the COIL classroom, and explores what instructors and staff need to know to facilitate and support a variety of COIL courses across the curriculum. It addresses

how institutional stakeholders, especially those in leadership positions, can develop and embed a successful COIL initiative at their institution. It offers varied perspectives of COIL viewed from different institutional and cultural vantage points -- from research universities, community and technical colleges, and university systems -- and describes how COIL VE is developing in five different world regions, presenting eleven case studies. The book concludes with a guide to thirteen global organizations that support COIL and other forms of VE. Additionally, the book provides links to the COIL Connect for Virtual Exchange website (<https://coilconnect.org>) which includes an updated directory of organizations, an expanding database of faculty and institutions participating in COIL and looking for partners, course templates, survey data, and case studies. This book offers faculty and administrators across the world -- whether formally involved in international education, in service-learning and community engagement, or wanting to incorporate a cross-cultural perspective in their disciplinary courses -- theoretical foundations, guidance on effective collaboration, and the strategic and pedagogical considerations to develop robust COIL VE courses and programs.

HUMAN-COMPUTER INTERACTION. INTERACTING IN VARIOUS APPLICATION DOMAINS

13TH INTERNATIONAL CONFERENCE, HCI INTERNATIONAL 2009, SAN DIEGO, CA, USA, JULY 19-24, 2009, PROCEEDINGS, PART IV

Springer Science & Business Media The 13th International Conference on Human-Computer Interaction, HCI International 2009, was held in San Diego, California, USA, July 19-24, 2009, jointly with the Symposium on Human Interface (Japan) 2009, the 8th International Conference on Engineering Psychology and Cognitive Ergonomics, the 5th International Conference on Universal Access in Human-Computer Interaction, the Third International Conference on Virtual and Mixed Reality, the Third International Conference on Internationalization, Design and Global Development, the Third International Conference on Online Communities and Social Computing, the 5th International Conference on Automated Cognition, the Second International Conference on Digital Human Modeling, and the First International Conference on Human Centered Design. A total of 4,348 individuals from academia, research institutes, industry and governmental agencies from 73 countries submitted contributions, and 1,397 papers that were judged to be of high scientific quality were included in the program. These papers address the latest research and development efforts and highlight the human aspects of the design and use of computing systems. The papers accepted for presentation thoroughly cover the entire field of human-computer interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas.

A KNOWLEDGE-NAVIGATION SYSTEM

DIANE Publishing

JOURNAL OF RESEARCH OF THE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY

VIRTUAL CURRENCIES AND BEYOND

INITIAL CONSIDERATIONS

International Monetary Fund New technologies are driving transformational changes in the global financial system. Virtual currencies (VCs) and the underlying distributed ledger systems are among these. VCs offer many potential benefits, but also considerable risks. VCs could raise efficiency and in the long run strengthen financial inclusion. At the same time, VCs could be potential vehicles for money laundering, terrorist financing, tax evasion and fraud. While risks to the conduct of monetary policy seem less likely to arise at this stage given the very small scale of VCs, risks to financial stability may eventually emerge as the new technologies become more widely used. National authorities have begun to address these challenges and will need to calibrate regulation in a manner that appropriately addresses the risks without stifling innovation. As experience is gained, international standards and best practices could be considered to provide guidance on the most appropriate regulatory responses in different fields, thereby promoting harmonization and cooperation across jurisdictions.

SUBSYSTEM AND TRANSACTION MONITORING AND TUNING WITH DB2 11 FOR Z/OS

IBM Redbooks This IBM® Redbooks® publication discusses in detail the facilities of DB2® for z/OS®, which allow complete monitoring of a DB2 environment. It focuses on the use of the DB2 instrumentation facility component (IFC) to provide monitoring of DB2 data and events and includes suggestions for related tuning. We discuss the collection of statistics for the verification of performance of the various components of the DB2 system and accounting for tracking the behavior of the applications. We have intentionally omitted considerations for query optimization; they are worth a separate document. Use this book to activate the right traces to help you monitor the performance of your DB2 system and to tune the various aspects of subsystem and application performance.

AEROSPACE ENGINEERING

LEARNING SQL

MASTER SQL FUNDAMENTALS

O'Reilly Media Updated for the latest database management systems -- including MySQL 6.0, Oracle 11g, and Microsoft's SQL Server 2008 -- this introductory guide will get you up and running with SQL quickly. Whether you need to write database applications, perform administrative tasks, or generate reports, Learning SQL, Second Edition, will help you easily master all the SQL fundamentals. Each chapter presents a self-contained lesson on a key SQL concept or technique, with numerous

illustrations and annotated examples. Exercises at the end of each chapter let you practice the skills you learn. With this book, you will: Move quickly through SQL basics and learn several advanced features Use SQL data statements to generate, manipulate, and retrieve data Create database objects, such as tables, indexes, and constraints, using SQL schema statements Learn how data sets interact with queries, and understand the importance of subqueries Convert and manipulate data with SQL's built-in functions, and use conditional logic in data statements Knowledge of SQL is a must for interacting with data. With Learning SQL, you'll quickly learn how to put the power and flexibility of this language to work.

GUIDE TO NIST

NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY

GUIDE TO NIST (NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY)

DIANE Publishing Gathers in one place descriptions of NIST's many programs, products, services, and research projects, along with contact names, phone numbers, and e-mail and World Wide Web addresses for further information. It is divided into chapters covering each of NIST's major operating units. In addition, each chapter on laboratory programs includes subheadings for NIST organizational division or subject areas. Covers: electronics and electrical engineering; manufacturing engineering; chemical science and technology; physics; materials science and engineering; building and fire research and information technology.

QUALITY TODAY

BUYERS GUIDE

YEARBOOK OF INTERNATIONAL ORGANIZATIONS

OPENSTACK OPERATIONS GUIDE

SET UP AND MANAGE YOUR OPENSTACK CLOUD

"O'Reilly Media, Inc." Design, deploy, and maintain your own private or public Infrastructure as a Service (IaaS), using the open source OpenStack platform. In this practical guide, experienced developers and OpenStack contributors show you how to build clouds based on reference architectures, as well as how to perform daily administration tasks. Designed for horizontal scalability, OpenStack lets you build a cloud by integrating several technologies. This approach provides flexibility, but knowing which options to use can be bewildering. Once you complete this book, you'll know the right questions to ask while you organize compute, storage, and networking resources. If you already know how to manage multiple Ubuntu machines and maintain MySQL, you're ready to: Set up automated deployment and configuration Design a single-node cloud controller Use metrics to improve scalability Explore compute nodes, network design, and storage Install OpenStack packages Use an example architecture to help simplify decision-making Build a working

environment to explore an IaaS cloud Manage users, projects, and quotas Tackle maintenance, debugging, and network troubleshooting Monitor, log, backup, and restore

SAP BACKUP USING TIVOLI STORAGE MANAGER

IBM Redbooks In this IBM® Redbooks® publication, we give an overview of different data management topics related to a typical SAP® data center. The intrinsic functionality of SAP is not designed to completely handle all the tasks of a data center by itself, but the SAP system offers several interface possibilities to attach external tools to it to accomplish this task We explain SAP basic concepts and the issues with SAP data management. We introduce Tivoli® Storage Manager and all of its products that are related to SAP data management. We provide some comparison between database backup and recovery tools. Finally, we discuss data archiving using IBM DB2® CommonStore for SAP, and discuss high availability requirements and disaster recovery considerations. The second part of this book discusses a practical implementation of SAP backup and recovery with Tivoli Storage Manager. We implement this setup on two separate SAP systems: one running DB2 and the other running Oracle® database. We also implement LAN-free backup and FlashCopy® scenarios. In the sample implementation section, we show many different tasks, such as backup and restore, database recovery, backup monitoring, and tuning. We also cover some advanced backup/availability considerations, such as split mirror backup and standby databases. This book helps individuals that operate an SAP environment to devise a strategy for a sound and comprehensive data backup solution using the IBM Tivoli Storage Management product family.

BUSINESS INFORMATION SYSTEMS WORKSHOPS

BIS 2021 INTERNATIONAL WORKSHOPS, VIRTUAL EVENT, JUNE 14-17, 2021, REVISED SELECTED PAPERS

Springer Nature

THE ULTIMATE SAFARI

NEW DIRECTIONS IN SOCIAL EDUCATION RESEARCH

THE INFLUENCE OF TECHNOLOGY AND GLOBALIZATION ON THE LIVES OF STUDENTS

IAP Through rapid developments in commerce, transportation and communication, people once separated by space, language and politics are now interwoven into a complex global system (Friedman, 2005). With the rise of new technology, local populations, businesses and states are better equipped to participate and act in a thriving international environment. Rising instability in the Middle East is immediately reported to oil and gas brokers in the U.S. Within seconds cable channels, iPods, social networking sites, and cell phones are relaying how protests in Egypt and Libya give hope to citizens around the world yearning for freedom. As events like 9/11 and the 2008 Financial Crisis have demonstrated, there is no

retreating from the interconnectedness of the global system. As societies strive to empower citizens with the skills, understandings and dispositions needed to operate in an interconnected global age, teachers are being encouraged to help students use technologies to develop new knowledge and foster cross cultural understandings. As pressures mount for society to equip today's youth with both the global and digital understandings necessary to confront the challenges of the 21st century, a more thorough analysis must be undertaken to examine the role of technology on student learning (Peters, 2009). This work will highlight the complex, contested, and contingent ways new technologies are being used by today's youth in a digital and global age. This text will present audiences with in-demand research that investigates the ways in which student use of technology mediates and complicates their learning about the world, its people, and global issues.

IBM TIVOLI DIRECTORY SERVER FOR Z/OS

IBM Redbooks This IBM® Redbooks® publication examines the IBM Tivoli® Directory Server for z/OS®. IBM Tivoli Directory Server is a powerful Lightweight Directory Access Protocol (LDAP) infrastructure that provides a foundation for deploying comprehensive identity management applications and advanced software architectures. This publication provides an introduction to the IBM Tivoli Directory Server for z/OS that provides a brief summary of its features and a examination of the possible deployment topologies. It discusses planning a deployment of IBM Tivoli Directory Server for z/OS, which includes prerequisites, planning considerations, and data stores, and provides a brief overview of the configuration process. Additional chapters provide a detailed discussion of the IBM Tivoli Directory Server for z/OS architecture that examines the supported back ends, discusses in what scenarios they are best used, and provides usage examples for each back end. The discussion of schemas breaks down the schema and provides guidance on extending it. A broad discussion of authentication, authorization, and security examines the various access protections, bind mechanisms, and transport security available with IBM Tivoli Directory Server for z/OS. This chapter also provides an examination of the new Password Policy feature. Basic and advanced replication topologies are also covered. A discussion on plug-ins provides details on the various types of plug-ins, the plug-in architecture, and creating a plug-in, and provides an example plug-in. Integration of IBM Tivoli Directory Server for z/OS into the IBM Workload Manager environment is also covered. This publication also provides detailed information about the configuration of IBM Tivoli Directory Server for z/OS. It discusses deploying IBM Tivoli Directory Server for z/OS on a single system, with examples of configuring the available back ends. Configuration examples are also provided for deploying the server in a Sysplex, and for both basic and advanced replication topologies. Finally it provides guidance on monitoring and debugging IBM Tivoli Directory Server for z/OS.

INFORMATION MODELING FOR INTEROPERABLE DIMENSIONAL METROLOGY

Springer Science & Business Media Dimensional metrology is an essential part of modern manufacturing technologies, but the basic theories and measurement

methods are no longer sufficient for today's digitized systems. The information exchange between the software components of a dimensional metrology system not only costs a great deal of money, but also causes the entire system to lose data integrity. Information Modeling for Interoperable Dimensional Metrology analyzes interoperability issues in dimensional metrology systems and describes information modeling techniques. It discusses new approaches and data models for solving interoperability problems, as well as introducing process activities, existing and emerging data models, and the key technologies of dimensional metrology systems. Written for researchers in industry and academia, as well as advanced undergraduate and postgraduate students, this book gives both an overview and an in-depth understanding of complete dimensional metrology systems. By covering in detail the theory and main content, techniques, and methods used in dimensional metrology systems, Information Modeling for Interoperable Dimensional Metrology enables readers to solve real-world dimensional measurement problems in modern dimensional metrology practices.

IBM IMS SOLUTIONS FOR AUTOMATING DATABASE MANAGEMENT

IBM Redbooks Over the last few years, IBM® IMSTM and IMS tools have been modernizing the interfaces to IMS and the IMS tools to bring them more in line with the current interface designs. As the mainframe software products are becoming more integrated with the Windows and mobile environments, a common approach to interfaces is becoming more relevant. The traditional 3270 interface with ISPF as the main interface is no longer the only way to do some of these processes. There is also a need to provide more of a common looking interface so the tools do not have a product-specific interface. This allows more cross product integration. Eclipse and web-based interfaces being used in a development environment, tooling using those environments provides productivity improvements in that the interfaces are common and familiar. IMS and IMS tools developers are making use of those environments to provide tooling that will perform some of the standard DBA functions. This book will take some selected processes and show how this new tooling can be used. This will provide some productivity improvements and also provide a more familiar environment for new generations DBAs. Some of the functions normally done by DBA or console operators can now be done in this eclipse-based environment by the application developers. This means that the need to request these services from others can be eliminated. This IBM Redbooks® publication examines specific IMS DBA processes and highlights the new IMS and IMS tools features, which show an alternative way to accomplish those processes. Each chapter highlights a different area of the DBA processes like: PSB creation Starting/stopping a database in an IMS system Recovering a database Cloning a set of databases

PROCEEDINGS

PROCEEDINGS OF THE 6TH INTERNATIONAL CONFERENCE ON INDUSTRIAL ENGINEERING (ICIE 2020)

VOLUME II

Springer Nature This book highlights recent findings in industrial, manufacturing and mechanical engineering, and provides an overview of the state of the art in these fields, mainly in Russia and Eastern Europe. A broad range of topics and issues in modern engineering are discussed, including the dynamics of machines and working processes, friction, wear and lubrication in machines, surface transport and technological machines, manufacturing engineering of industrial facilities, materials engineering, metallurgy, control systems and their industrial applications, industrial mechatronics, automation and robotics. The book gathers selected papers presented at the 6th International Conference on Industrial Engineering (ICIE), held in Sochi, Russia in May 2020. The authors are experts in various fields of engineering, and all papers have been carefully reviewed. Given its scope, the book will be of interest to a wide readership, including mechanical and production engineers, lecturers in engineering disciplines, and engineering graduates.

PROCEEDINGS OF THE 4TH INTERNATIONAL CONFERENCE ON INDUSTRIAL ENGINEERING

ICIE 2018

Springer This book highlights recent findings in industrial, manufacturing and mechanical engineering, and provides an overview of the state of the art in these fields, mainly in Russia and Eastern Europe. A broad range of topics and issues in modern engineering are discussed, including the dynamics of machines and working processes, friction, wear and lubrication in machines, surface transport and technological machines, manufacturing engineering of industrial facilities, materials engineering, metallurgy, control systems and their industrial applications, industrial mechatronics, automation and robotics. The book gathers selected papers presented at the 4th International Conference on Industrial Engineering (ICIE), held in Moscow, Russia in May 2018. The authors are experts in various fields of engineering, and all papers have been carefully reviewed. Given its scope, the book will be of interest to a wide readership, including mechanical and production engineers, lecturers in engineering disciplines, and engineering graduates.

PREGNANCY DAY BY DAY

Penguin The complete guide to pregnancy, day-by-day No other pregnancy book provides this level of detail, allied with such extraordinary photographs, 3D scans and illustrations which reveal in unprecedented clarity exactly what is happening to you and your baby every single day. From early fetal development to how your hormones prepare you for birth, learn from world-class experts. Plus, obstetricians, midwives and parents advise on your baby's development, medical matters, your changing body, diet, fitness and much more. A special hour-by-hour rundown of what to expect during and immediately after birth, plus further reassurance for the first two weeks of your baby's life, will give a helping hand through the culmination of your pregnancy, from pain relief to those first intimate and unique moments between you and your child.

LEARNING ANGULARJS

A GUIDE TO ANGULARJS DEVELOPMENT

O'Reilly Media, Inc. With AngularJS, you can quickly build client-side applications that run well on any desktop or mobile platform, using REST web services for backend processes. You may have heard that the learning curve for this JavaScript MVC framework is too steep, but that's not the case. This practical guide provides a hands-on approach to learning AngularJS that will have you building high-quality applications and websites in no time. Along with a conceptual understanding of the framework, you'll also gain direct experience with AngularJS by building a sample application throughout the book. If you're familiar with JavaScript, web development, and software design concepts and patterns, this book is the perfect way to get started. Understand how AngularJS differs from other MVC frameworks Learn about AngularJS controllers, views, and models by diving into the book's sample project Connect your working application to public REST services Build the application's security layer with non-REST AngularJS services Explore the basics of building and testing AngularJS directives Use AngularJS as part of the MEAN stack (MongoDB, ExpressJS, AngularJS, and Node.js) Discover how search engine optimization relates to AngularJS applications and sites

THE MACHINE GUNNERS

Nelson Thornes It's 1940, and Britain is at war. Young Chas McGill has the second-best collection of war souvenirs in town, but desperately wants it to be the best. Amidst the bombs and air raids, Chas and his friends plan their own war effort in their newly built bunker. Friendships are forged and loyalties tested, in the adventure of a lifetime. Robert Westall's "The Machine Gunners" has been read, studied - and loved - by successive generations of younger readers. It won the Carnegie Medal and was voted one of the most important children's novels of the past seventy years. This thrilling stage adaptation comes from the award-winning playwright Ali Taylor, and premiered at the Polka Theatre, London. It provides rich opportunities for discussion in the classroom, and for staging by schools, youth theatres and amateur companies.

DATA SOURCES

CD-ROMS IN PRINT

GYN/ECOLOGY

THE METAETHICS OF RADICAL FEMINISM

Beacon Press This revised edition includes a New Intergalactic Introduction by the Author. Mary Daly's New Intergalactic Introduction explores her process as a Crafty Pirate on the Journey of Writing Gyn/Ecology and reveals the autobiographical context of this "Thunderbolt of Rage" that she first hurled against the patriarchs in 1979 and no hurls again in the Re-Surgin Movement of Radical Feminism in the Be-

Dazzling Nineties.

HANDBOOK OF TOTAL QUALITY MANAGEMENT

Springer Science & Business Media Quality issues are occupying an increasingly prominent position in today's global business market, with firms seeking to compete on an international level on both price and quality. Consumers are demanding higher quality standards from manufacturers and service providers, while virtually all industrialized nations have instituted quality programs to help indigenous corporations. A proliferation in nation-wide and regional quality awards such as the Baldrige award and certification to ISO 9000 series are making corporations world-wide quality-conscious and eager to implement programs of continuous improvement. To achieve competitiveness, quality practice is a necessity and this book offers an exposition of how quality can be attained. The Handbook of Total Quality Management: Explores in separate chapters new topics such as re-engineering, concurrent engineering, ISO standards, QFD, the Internet, the environment, advanced manufacturing technology and benchmarking Discusses the views of leading quality practitioners such as Dering, Juran, Ishikawa, Crosby and Taguchi throughout the book Considers important strategies for quality improvement, including initiation and performance evaluation through auditing, re-engineering, and process and design innovations. With contributions from 47 authors in 13 different countries, the Handbook of Total Quality Management is invaluable as a reference guide for anyone involved with quality management and deployment, including consultants, practitioners and engineers in the professional sector, and students and lecturers of information systems, management and industrial engineering.

PUBLICATIONS OF THE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY ... CATALOG

SAP APPLICATIONS ON IBM POWERVM

IBM Redbooks IBM® invented the virtualization technology starting in the 1960s on the mainframe, and the functionalities evolved and were ported to other platforms and improved the reliability, availability, and serviceability (RAS) features. With virtualization, you achieve better asset utilization, reduced operating costs, and faster responsiveness to changing business demands. Every technology vendor in the SAP ecosystem understands virtualization as slightly different capabilities on different levels (storage and server hardware, processor, memory, I/O resources or the application, and so on). It is important to understand exactly what functionality is offered and how it supports the client's business requirements. In this IBM Redbooks® publication we focus on server virtualization technologies in the IBM Power Systems™ hardware, AIX®, IBM i, and Linux space and what they mean specifically for SAP applications running on this platform. SAP clients can leverage the technology that the IBM Power Systems platform offers. In this book, we describe the technologies and functions, what they mean, and how they apply to the SAP system landscape.

IBM POWER 520 TECHNICAL OVERVIEW

IBM Redbooks This IBM Redpaper publication is a comprehensive guide covering the IBM Power 520 server, machine type model 8203-E4A. The goal of this paper is to introduce this innovative server that includes IBM System i and IBM System p and new hardware technologies. The major hardware offerings include: - The POWER6 processor, available at frequencies of 4.2 GHz and 4.7 GHz. - Specialized POWER6 DDR2 memory that provides greater bandwidth, capacity, and reliability. - The 1 Gb or 10 Gb Integrated Virtual Ethernet adapter that brings native hardware virtualization to this server. - EnergyScale technology that provides features such as power trending, power-saving, capping of power, and thermal measurement. - PowerVM virtualization technology. - Mainframe continuous availability brought to the entry server environment. This Redpaper expands the current set of IBM Power System documentation by providing a desktop reference that offers a detailed technical description of the Power 520 system. This Redpaper does not replace the latest marketing materials and tools. It is intended as an additional source of information that, together with existing sources, can be used to enhance your knowledge of IBM server solutions.

THE ROCK MANUAL

THE USE OF ROCK IN HYDRAULIC ENGINEERING

This publication is a summary of good practice on the use of rock in engineering works for rivers, coasts and seas. It has incorporated all the significant advances in knowledge that have occurred over the past 10-15 years.

LIBRARY & INFORMATION SCIENCE ABSTRACTS

HOW TO TRADE IN STOCKS

McGraw Hill Professional The Success Secrets of a Stock Market Legend Jesse Livermore was a loner, an individualist-and the most successful stock trader who ever lived. Written shortly before his death in 1940, *How to Trade Stocks* offered traders their first account of that famously tight-lipped operator's trading system. Written in Livermore's inimitable, no-nonsense style, it interweaves fascinating autobiographical and historical details with step-by-step guidance on: Reading market and stock behaviors Analyzing leading sectors Market timing Money management Emotional control In this new edition of that classic, trader and top Livermore expert Richard Smitten sheds new light on Jesse Livermore's philosophy and methods. Drawing on Livermore's private papers and interviews with his family, Smitten provides priceless insights into the Livermore trading formula, along with tips on how to combine it with contemporary charting techniques. Also included is the Livermore Market Key, the first and still one of the most accurate methods of tracking and recording market patterns

SUGGESTIONS TO MEDICAL AUTHORS AND A.M.A. STYLE BOOK

WITH A GUIDE TO ABBREVIATION OF BIBLIOGRAPHIC REFERENCES ; FOR THE GUIDANCE OF AUTHORS, EDITORS, COMPOSITORS, AND PROOFREADERS

GOVERNMENT REPORTS ANNOUNCEMENTS & INDEX

THE HYBRID MOBILE INSTRUMENT

RECOUPLING THE HAPTIC, THE PHYSICAL, AND THE VIRTUAL

The decoupling of the "controller" from the "synthesizer" is one of the defining characteristic of digital musical instruments (DMIs). While this allows for much flexibility, this "demutualization" (as Perry Cook termed) sometimes results in a loss of intimacy between the performer and the instrument. In this thesis, we introduce a framework to craft "mutualized" DMIs by leveraging the concepts of augmented mobile device, hybrid instrument design, and skill transfer from existing performer technique. Augmented mobile instruments combine commodity mobile devices with passive and active elements that can take part in the production of sound (e.g., resonators, exciter, etc.), while adding new affordances to the device and changing its form and overall aesthetics. Screen interfaces can be designed to facilitate skill transfer, accelerating the learning and the mastery of such instruments. Hybrid instrument design mutualizes physical and "physically-informed" virtual elements, taking advantage of recent progress in physical modeling and digital fabrication. This design ethos allows physical/acoustical elements to be substituted with virtual/digital ones and vice versa (as long as it is physically possible). A set of tools to design hybrid mobile instruments is introduced and evaluated. Overall, we demonstrate how this approach can help digital luthiers to think about DMI design "as a whole" in order to create mutualized instruments. Through a series of case studies, we discuss aesthetic and design implications when making such hybrid instruments.

IBM BUSINESS PROCESS MANAGER VERSION 8.0 PRODUCTION TOPOLOGIES

IBM Redbooks This IBM® Redbooks® publication describes how to build production topologies for IBM Business Process Manager V8.0. This book is an update of the existing book IBM Business Process Manager V7.5 Production Topologies, SG24-7976. It is intended for IT Architects and IT Specialists who want to understand and implement these topologies. Use this book to select the appropriate production topologies for an environment, then follow the step-by-step instructions to build those topologies. Part 1 introduces IBM Business Process Manager and provides an overview of basic topology components, and Process Server and Process Center. This part also provides an overview of the production topologies described in this book, including a selection criteria for when to select a topology. IBM Business Process Manager security and the presentation layer are also addressed in this part. Part 2 provides a series of step-by-step instructions for creating production topology environments by using deployment environment patterns. This process includes topologies that incorporate IBM Business Monitor. This part also describes advanced

topology topics. Part 3 covers post installation instructions for implementing production topology environments such as configuring IBM Business Process Manager to use IBM HTTP Server and WebSphere® proxy server.