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KEY=ANALYSIS - MARLEY CRUZ

RENTAL AND COOPERATIVE HOUSING FOR LOWER-INCOME FAMILIES : SECTION 236 : BASIC INSTRUCTIONS

PROGRAM PARTICIPANTS AND HUD STAFF

ARCHITECTURAL FORENSICS

McGraw Hill Professional Successfully Conduct and Report on Any Architectural Forensic Investigation Architectural Forensics clearly defines the role, responsibilities, and essential work of forensic architects. This unique resource offers comprehensive coverage of building defects and failures, types of failure mechanisms, and job-critical tasks such as fieldwork, lab testing, formulating opinions, and providing expert testimony. Packed with 300 illustrations, in-depth case studies, and numerous sample documents, this vital reference takes you step-by-step through every phase of conducting investigations...diagnosing building failures... preventing and curing building defects...and reporting on findings. The book also includes strategies for avoiding liability and resolving disputes- potentially saving vast amounts of time and money. Authoritative and up-to-date, Architectural Forensics Features: • Full details on conducting investigations and reporting on architectural forensics • Clear guidance on preventing and curing building defects and failures • In-depth coverage of field work, photogrammetry, and lab testing • Practical insights into litigation, dispute resolution, and expert testimony • Solid business advice on presentation methods, marketing, and setting up an office and website

NEHRP RECOMMENDED PROVISIONS (NATIONAL EARTHQUAKE HAZARDS REDUCTION PROGRAM) FOR SEISMIC REGULATIONS FOR NEW BUILDINGS AND OTHER STRUCTURES: PROVISIONS

NETWORK ANALYSIS, ARCHITECTURE, AND DESIGN

Elsevier Traditionally, networking has had little or no basis in analysis or architectural development, with designers relying on technologies they are most familiar with or being influenced by vendors or consultants. However, the landscape of networking has changed so that network services have now become one of the most important factors to the success of many third generation networks. It has become an important feature of the designer's job to define the problems that exist in his network, choose and analyze several optimization parameters during the analysis process, and then prioritize and evaluate these parameters in the architecture and design of the system. Network Analysis, Architecture, and Design, Third Edition, uses a systems methodology approach to teaching these concepts, which views the network (and the environment it impacts) as part of the larger system, looking at interactions and dependencies between the network and its users, applications, and devices. This approach matches the new business climate where customers drive the development of new services and the book discusses how networks can be architected and designed to provide many different types of services to customers. With a number of examples, analogies, instructor tips, and exercises, this book works through the processes of analysis, architecture, and design step by step, giving designers a solid resource for making good design decisions. With examples, guidelines, and general principles McCabe illuminates how a network begins as a concept, is built with addressing protocol, routing, and management, and harmonizes with the interconnected technology around it. Other topics covered in the book are learning to recognize problems in initial design, analyzing optimization parameters, and then prioritizing these parameters and incorporating them into the architecture and design of the system. This is an essential book for any professional that will be designing or working with a network on a routine basis. Substantially updated design content includes ad hoc networks, GMPLS, IPv6, and mobile networking Written by an expert in the field that has designed several large-scale networks for government agencies, universities, and corporations Incorporates real-life ideas and experiences of many expert designers along with case studies and end-of-chapter exercises

SWITCHED-CAPACITOR DACS USING OPEN LOOP OUTPUT DRIVERS AND DIGITAL PREDISTORTION

Stanford University High-speed communication systems, such as the 10 Gb/s Ethernet standard for copper cabling (10GBASE-T), use digital signal processing (DSP) to overcome the noise and bandwidth constraints of communication channels and, thereby, improve network throughput. The sophistication of these DSP techniques is possible because engineers can implement them using very little area and power in modern CMOS processes. And as CMOS technology scales, the power and area costs of digital logic become even more favorable. The requirements of communication systems also put pressure on circuit designers to develop higher-fidelity, higher-speed digital-to-analog converters (DACs). Unfortunately in this case, CMOS technology scaling offers a mixed bag of trends: some favorable to the most prevalent techniques used in DAC design and others unfavorable. The research presented in this dissertation is an attempt to let CMOS scaling trends guide the DAC design process. To this end, we have developed a new DAC architecture that relies on DSP to overcome some of the limitations encountered in analog and mixed signal design. The architecture consists of a digital predistortion block, a switched-capacitor DAC core, an open-loop output driver, a calibration ADC and a calibration algorithm. During normal operation, the predistortion block operates on the input data stream in such a way that nonlinearities in the

DAC core and open-loop output driver are cancelled. Because these nonlinearities can change over time, the calibration ADC monitors the DAC output in the background, allowing the calibration algorithm to continuously update the predistortion coefficients. The predistortion block is implemented as a lookup table that re-maps each input sample to a unique internal value. This allows the predistorter to consume low power, but it also limits the kinds of errors that can be cancelled. Only memoryless nonlinearities, which are nonlinearities that are not a function of signal frequency, can be corrected. Existing DAC architectures are not good candidates for this kind of correction because their performance varies significantly across frequency. Therefore, the architecture that we have developed was designed so that its dominant nonlinearity mechanisms are approximately memoryless relative to the frequencies of interest. A 12-bit, 800-MS/s prototype chip demonstrating the new architecture was fabricated in a 90-nm CMOS process. The prototype achieves better than 58 dB SFDR for signal frequencies below 200 MHz and better than 53 dB SFDR for signal frequencies below 400 MHz. The full-scale output current is 16 mA, but by changing the resistive load seen by the DAC, we tested output voltage swings from 0.65 Vppd to 2.9 Vppd. We could discern no difference in SFDR performance for large or small output voltage swings.

AN ARCHITECTURE-BASED APPROACH FOR CHANGE IMPACT ANALYSIS OF SOFTWARE-INTENSIVE SYSTEMS

KIT Scientific Publishing

MULTIPROCESSOR SYSTEMS-ON-CHIPS

Morgan Kaufmann The first book to survey this emerging field in digital system design.

SYSTEM ANALYSIS AND MODELING: MODELS AND REUSABILITY

8TH INTERNATIONAL CONFERENCE, SAM 2014, VALENCIA, SPAIN, SEPTEMBER 29-30, 2014. PROCEEDINGS

Springer This book constitutes the refereed papers of the proceedings of the 8th International Conference on System Analysis and Modeling, SAM 2014, held in Valencia, Spain, in September 2014. The 18 full papers and the 3 short papers presented together with 2 keynotes were carefully reviewed and selected from 71 submissions. The contributions are organized in topical sections named: reuse; availability, safety and optimization; sequences and interactions; testing; metrics, constraints and repositories; and SDL and V&V.

DOCUMENT ANALYSIS SYSTEMS VI

6TH INTERNATIONAL WORKSHOP, DAS 2004, FLORENCE, ITALY, SEPTEMBER 8-10, 2004, PROCEEDINGS

Springer Science & Business Media This volume contains papers selected for presentation at the 6th IAPR Workshop on Document Analysis Systems (DAS 2004) held during September 8-10, 2004 at the University of Florence, Italy. Several papers represent the state of the art in a broad range of "traditional" topics such as layout analysis, applications to graphics recognition, and handwritten documents. Other contributions address the description of complete working systems, which is one of the strengths of this workshop. Some papers extend the application domains to other media, like the processing of Internet documents. The peculiarity of this 6th workshop was the large number of papers related to digital libraries and to the processing of historical documents, a taste which frequently requires the analysis of color documents. A total of 17 papers are associated with these topics, whereas two years ago (in DAS 2002) only a couple of papers dealt with these problems. In our view there are three main reasons for this new wave in the DAS community. From the scientific point of view, several research fields reached a thorough knowledge of techniques and problems that can be effectively solved, and this expertise can now be applied to new domains. Another incentive has been provided by several research projects funded by the EC and the NSF on topics related to digital libraries.

CONGRESSIONAL RECORD

PROCEEDINGS AND DEBATES OF THE ... CONGRESS

JOURNAL OF THE HOUSE OF REPRESENTATIVES OF THE UNITED STATES

Some vols. include supplemental journals of "such proceedings of the sessions, as, during the time they were depending, were ordered to be kept secret, and respecting which the injunction of secrecy was afterwards taken off by the order of the House".

THE TOGAF® STANDARD, 10TH EDITION - ARCHITECTURE DEVELOPMENT METHOD

Van Haren This document is a compilation of three documents within the TOGAF® Standard. It has been developed and approved by The Open Group, and is part of the TOGAF Standard, 10th Edition. The three documents in this set are: • The TOGAF Standard — Architecture Development Method This document describes the TOGAF Architecture Development Method (ADM) — an iterative approach to developing an Enterprise Architecture. • The TOGAF Standard — ADM Techniques This document contains a collection of techniques available for use in applying the TOGAF approach and the TOGAF ADM. • The TOGAF Standard — Applying the ADM This document contains guidelines for adapting the TOGAF ADM to address the specific style of architecture required in a practical context. The TOGAF Standard is intended for Enterprise Architects, Business Architects, IT Architects, Data Architects, Systems Architects, Solution Architects, and anyone responsible for the architecture function within an organization.

NEHRP RECOMMENDED PROVISIONS (NATIONAL EARTHQUAKE HAZARDS REDUCTION PROGRAM) FOR SEISMIC REGULATIONS FOR NEW BUILDINGS AND OTHER STRUCTURES

ENTERPRISE ARCHITECTURE AT WORK

MODELLING, COMMUNICATION AND ANALYSIS

Springer Lankhorst and his co-authors present ArchiMate® 3.0, enterprise modelling language that captures the complexity of architectural domains and their relations and allows the construction of integrated enterprise architecture models. They provide architects with concrete instruments that improve their architectural practice. As this is not enough, they additionally present techniques and heuristics for communicating with all relevant stakeholders about these architectures. Since an architecture model is useful not only for providing insight into the current or future situation but can also be used to evaluate the transition from 'as-is' to 'to-be', the authors also describe analysis methods for assessing both the qualitative impact of changes to an architecture and the quantitative aspects of architectures, such as performance and cost issues. The modelling language presented has been proven in practice in many real-life case studies and has been adopted by The Open Group as an international standard. So this book is an ideal companion for enterprise IT or business architects in industry as well as for computer or management science students studying the field of enterprise architecture. This fourth edition of the book has been completely reworked to be compatible with ArchiMate® 3.0, and it includes a new chapter relating this new version to other standards. New sections on capability analysis, risk analysis, and business architecture in general have also been introduced.

COMPUTERIZING ELECTION ADMINISTRATION

COMPUTER GRAPHICS FOR ENGINEERS AND ARCHITECTS

Computational Mechanics

SOFTWARE ARCHITECT'S HANDBOOK

BECOME A SUCCESSFUL SOFTWARE ARCHITECT BY IMPLEMENTING EFFECTIVE ARCHITECTURE CONCEPTS

Packt Publishing Ltd A comprehensive guide to exploring software architecture concepts and implementing best practices
Key Features Enhance your skills to grow your career as a software architect Design efficient software architectures using patterns and best practices Learn how software architecture relates to an organization as well as software development methodology
Book Description The Software Architect's Handbook is a comprehensive guide to help developers, architects, and senior programmers advance their career in the software architecture domain. This book takes you through all the important concepts, right from design principles to different considerations at various stages of your career in software architecture. The book begins by covering the fundamentals, benefits, and purpose of software architecture. You will discover how software architecture relates to an organization, followed by identifying its significant quality attributes. Once you have covered the basics, you will explore design patterns, best practices, and paradigms for efficient software development. The book discusses which factors you need to consider for performance and security enhancements. You will learn to write documentation for your architectures and make appropriate decisions when considering DevOps. In addition to this, you will explore how to design legacy applications before understanding how to create software architectures that evolve as the market, business requirements, frameworks, tools, and best practices change over time. By the end of this book, you will not only have studied software architecture concepts but also built the soft skills necessary to grow in this field. What you will learn Design software architectures using patterns and best practices Explore the different considerations for designing software architecture Discover what it takes to continuously improve as a software architect Create loosely coupled systems that can support change Understand DevOps and how it affects software architecture Integrate, refactor, and re-architect legacy applications Who this book is for The Software Architect's Handbook is for you if you are a software architect, chief technical officer (CTO), or senior developer looking to gain a firm grasp of software architecture.

EMBEDDED COMPUTING

A VLIW APPROACH TO ARCHITECTURE, COMPILERS AND TOOLS

Elsevier The fact that there are more embedded computers than general-purpose computers and that we are impacted by hundreds of them every day is no longer news. What is news is that their increasing performance requirements, complexity and capabilities demand a new approach to their design. Fisher, Faraboschi, and Young describe a new age of embedded computing design, in which the processor is central, making the approach radically distinct from contemporary practices of embedded systems design. They demonstrate why it is essential to take a computing-centric and system-design approach to the traditional elements of nonprogrammable components, peripherals, interconnects and buses. These elements must be unified in a system design with high-performance processor architectures, microarchitectures and compilers, and with the compilation tools, debuggers and simulators needed for application development. In this landmark text, the authors apply their expertise in highly interdisciplinary hardware/software development and VLIW processors to illustrate this change in embedded computing. VLIW architectures have long been a popular choice in embedded systems design, and while VLIW is a running theme throughout the book, embedded computing is the core topic. Embedded Computing examines both in a book filled with fact and opinion based on the authors many years of R&D experience. · Complemented by a unique, professional-quality embedded tool-chain on the authors' website, <http://www.vliw.org/book> · Combines technical depth with real-world experience · Comprehensively explains the differences between general purpose computing systems and embedded systems at the hardware, software, tools and operating system levels. · Uses concrete examples to explain and motivate the trade-offs.

RESOURCES IN EDUCATION

SERVICE-ORIENTED ARCHITECTURE

A PLANNING AND IMPLEMENTATION GUIDE FOR BUSINESS AND TECHNOLOGY

John Wiley & Sons Praise for *Service-Oriented Architecture* "This book provides a superb overview of the SOA topic. Marks and Bell provide practical guidance across the entire SOA life cycle—from business imperatives and motivations to the post-deployment business and technical metrics to consider. With this book, Marks and Bell demonstrate a unique ability to take the complex dynamics of SOA, and through an eloquent set of metaphors, models, and principles, provide an understandable and insightful how-to manual for both technical and business executives. This will become a required handbook for any organization implementing SOA." —Dan Bertrand, Enterprise Technology Officer & EDS Fellow, EDS Corporation "A fundamental breakthrough in the business and technology perspectives of SOA—this book belongs in every software developer, architect, and IT executive library. Marks and Bell demonstrate a creative and practical approach to building complex, service-oriented systems. I especially liked the hands-on perspective brought to multiple aspects of SOA. A must-have guide in the technology turbulence of the future." —Ariel Aloni, Chief Technology Officer, SunGard Data Management Solutions "This outstanding text gets straight to the heart of the matter, cutting through the hyperbole and discussing how to drive real business value through SOA. It will certainly impact my behavior, our governance models, and, subsequently, the successful business outcomes we derive as we continue to embrace SOA. A must-read for battle-scarred SOA veterans and fledgling architects alike." —Christopher Crowhurst, Vice President and Chief Architect, Thomson Learning "Too often, SOA has been perceived as 'all about the technology'—standards, technology stacks, operational monitoring, and the like. In this book, Marks and Bell expand beyond the technology to provide a refreshing business-driven perspective to SOA, connecting the dots between business requirements, architecture, and development and operations, and overlaying these perspectives with tried-and-true governance techniques to keep SOA initiatives on track. A must-read for those leading the charge to adopt SOA within their enterprise." —Brent Carlson, Chief Technology Officer, LogicLibrary and coauthor of *San Francisco Design Patterns: Blueprints for Business Software* "Marks and Bell have captured a wealth of practical experience and lessons learned in what has become the hottest topic in software development. In this book, they explain in detail what works and what does not, from procedural issues to technical challenges. This book is an invaluable reference for organizations seeking the benefits of SOAs." —Dr. Jeffrey S. Poulin, System Architect, Lockheed Martin and author of *Measuring Software Reuse: Principles, Practices, and Economic Models* "One of the last things companies often consider when implementing a business solution such as SOA is the impact on people. Marks and Bell provide an in-depth look at 'what has to change' from a process standpoint to make any SOA implementation a success. A great read for those considering to embark on an enterprise SOA and looking for the right mix of people, process, and products." —Alan Himler, Vice President of Product Management and Marketing, LogicLibrary "SOA is a complex topic and a complex organizational goal. *Service-Oriented Architecture: A Planning and Implementation Guide for Business and Technology* shows you how to plan, implement, and achieve SOA value through its prescriptive approach, joining the business and strategic perspective to the technical and architectural perspective. Applicable to all industries, technology platforms, and operating environments, this innovative book provides you with the essential strateg

APPLICATION-DRIVEN ARCHITECTURE SYNTHESIS

Springer Science & Business Media *Application-Driven Architecture Synthesis* describes the state of the art of architectural synthesis for complex real-time processing. In order to deal with the stringent timing requirements and the intricacies of complex real-time signal and data processing, target architecture styles and target application domains have been adopted to make the synthesis approach feasible. These approaches are also heavily application-driven, which is illustrated by many realistic demonstrations, used as examples in the book. The focus is on domains where application-specific solutions are attractive, such as significant parts of audio, telecom, instrumentation, speech, robotics, medical and automotive processing, image and video processing, TV, multi-media, radar, sonar. *Application-Driven Architecture Synthesis* is of interest to both academics and senior design engineers and CAD managers in industry. It provides an excellent overview of what capabilities to expect from future practical design tools, and includes an extensive bibliography.

THE BUDGET OF THE UNITED STATES GOVERNMENT

APPENDIX

DEEP LEARNING TECHNIQUES FOR MUSIC GENERATION

Springer This book is a survey and analysis of how deep learning can be used to generate musical content. The authors offer a comprehensive presentation of the foundations of deep learning techniques for music generation. They also develop a conceptual framework used to classify and analyze various types of architecture, encoding models, generation strategies, and ways to control the generation. The five dimensions of this framework are: objective (the kind of musical content to be generated, e.g., melody, accompaniment); representation (the musical elements to be considered and how to encode them, e.g., chord, silence, piano roll, one-hot encoding); architecture (the structure organizing neurons, their connexions, and the flow of their activations, e.g., feedforward, recurrent, variational autoencoder); challenge (the desired properties and issues, e.g., variability, incrementality, adaptability); and strategy (the way to model and control the process of generation, e.g., single-step feedforward, iterative feedforward, decoder feedforward, sampling). To illustrate the possible design decisions and to allow comparison and correlation analysis they analyze and classify more than 40 systems, and they discuss important open challenges such as interactivity, originality, and structure. The authors have extensive knowledge and experience in all related research, technical, performance, and business aspects. The book is suitable for students, practitioners, and researchers in the artificial intelligence, machine learning, and music creation domains. The reader does not require any prior knowledge about artificial neural networks, deep learning, or computer music. The text is fully supported with a comprehensive table of acronyms, bibliography, glossary, and index, and supplementary material is available from the authors' website.

EBOOK: MANAGERIAL ECONOMICS AND ORGANIZATIONAL ARCHITECTURE

McGraw Hill Ebook: Managerial Economics and Organizational Architecture

ENTERPRISE AND ORGANIZATIONAL MODELING AND SIMULATION

11TH INTERNATIONAL WORKSHOP, EOMAS 2015, HELD AT CAISE 2015, STOCKHOLM, SWEDEN, JUNE 8-9, 2015, SELECTED PAPERS

Springer This book constitutes the refereed proceedings of the 11th International Workshop on Enterprise and Organizational Modeling and Simulation, EOMAS 2015, held at CAISE 2015, in June 2015 in Stockholm, Sweden. EOMAS was founded with the purpose to become a forum among researchers and practitioners to share their research and practical findings by encouraging the dissemination of research results under a more generic umbrella called enterprise engineering, which encompasses internal factors ranging from organizational complexity to intricacy of business processes and sophistication in workflows as well as external factors and uncertainties such as competition, politics, or the emergence of innovative technologies. The 15 papers presented in this volume were carefully reviewed and selected from 28 submissions. They were organized in topical sections named: enterprise conceptual modeling and simulation; enterprise modeling formal foundation; and enterprise optimization.

IBM I2 INTEGRATED LAW ENFORCEMENT: TECHNICAL ARCHITECTURE AND DEPLOYMENT GUIDE

IBM Redbooks IBM® i2® Integrated Law Enforcement is an IBM Smarter Cities® solution that addresses the needs of modern-day law enforcement agencies. It is a solution framework that provides the individual capabilities of the products that comprise the solution and extended capabilities developed through the synergistic integration of those product components. As a framework, IBM i2 Integrated Law Enforcement allows for the continuous expansion of capabilities by putting together building blocks within the system and integrating with new, external systems. In doing so, an organization can respond and adapt to its changing needs. Simply stated, the configuration, integration, and implementation of IBM i2 Integrated Law Enforcement and its components provide the tools for more effective law enforcement. This IBM Redpaper™ publication explains the technology and the architecture on which the solution is built. Most importantly, this paper enables technical teams to install, configure, and deploy an instance of the i2 Integrated Law Enforcement solution using the product i2 Intelligent Law Enforcement V1.0.1. This paper is targeted to solution architects, system and deployment engineers, security specialists, data management experts, system analysts, software developers and test engineers, and system administrators. Readers of this paper will benefit from the IBM Redguide™ publication "Integrated Law Enforcement: A Holistic Approach to Solving Crime", REDP-5116.

THE GENERAL FACTOR OF INTELLIGENCE

HOW GENERAL IS IT?

Psychology Press This edited volume presents a balanced approach to the ongoing debate of just how general the "general factor" of intelligence is. To accomplish this goal, the editors chose a number of distinct approaches to the study of intelligence-- psychometric, genetic-epistemological, cognitive, biological, behavior-genetic, sociocultural, systems--and asked distinguished scholars to write from the standpoint of these approaches. Each approach comprises two chapters, one by a scholar leaning toward a view arguing for the greater generality of g, and the other by a scholar leaning toward a view arguing for the lesser generality of g. The scholars are not simply "for" or "against" these outlooks, rather they provide a more textured view of the general factor, attempting to explain it in psychological terms that are easily understandable. Intended for psychologists in all areas, including clinical, consulting, educational, cognitive, school, developmental, and industrial-organizational, this book will also be of interest to educators, sociologists, anthropologists, and those interested in the nature of intelligence.

ARCHITECTURAL RESEARCH METHODS

John Wiley & Sons ARCHITECTURAL RESEARCH METHODS ARCHITECTURE/GENERAL A PRACTICAL GUIDE TO RESEARCH FOR ARCHITECTS AND DESIGNERS—NOW UPDATED AND EXPANDED! From searching for the best glass to prevent glare to determining how clients might react to the color choice for restaurant walls, research is a crucial tool that architects must master in order to effectively address the technical, aesthetic, and behavioral issues that arise in their work. This book's unique coverage of research methods is specifically targeted to help professional designers and researchers better conduct and understand research. Part I explores basic research issues and concepts, and includes chapters on relating theory to method and design to research. Part II gives a comprehensive treatment of specific strategies for investigating built forms. In all, the book covers seven types of research, including historical, qualitative, correlational, experimental, simulation, logical argumentation, and case studies and mixed methods. Features new to this edition include: Strategies for investigation, practical examples, and resources for additional information A look at current trends and innovations in research Coverage of design studio-based research that shows how strategies described in the book can be employed in real life A discussion of digital media and online research New and updated examples of research studies A new chapter on the relationship between design and research Architectural Research Methods is an essential reference for architecture students and researchers as well as architects, interior designers, landscape architects, and building product manufacturers.

THE ART IN ANCIENT EGYPT

ILLUSTRATED EDITION

e-artnow The Art in Ancient Egypt in two volumes is a study of Egyptian arts and of their connection with the national religion and civilization written by French archeologists and historians Georges Perrot and Charles Chipiez. The aim of the work was to trace the course of the great evolution which culminated in the age of Pericles and came to an end in that of Marcus Aurelius. That evolution

forms a complete entirety - an unbroken chain of cause and effect uniting the two eras. Using carefully selected examples authors prove that the art of the Egyptians went through the same process of development as those of other nationalities, earlier and later ones, and that the unique quality of the sculptures and paintings of the Nile Valley was a persistent affinity to simplification, which comes in part from the habit created by writing the hieroglyphic and in part from the materials used.

FOUNDATION [SIC] OF TRANSLATION

Edicions Universitat Barcelona Aquest text docent correspon als materials docents de l'assignatura que s'imparteix a la Universitat de Barcelona dins la seva pròpia àrea d'ensenyament

TROPICAL TREES AND FORESTS

AN ARCHITECTURAL ANALYSIS

Springer Science & Business Media

THE ARCHITECT : CHAPTERS IN THE HISTORY OF THE PROFESSION

CHAPTERS IN THE HISTORY OF THE PROFESSION

Oxford University Press, USA

SOFTWARE ARCHITECTURE

FOUNDATIONS, THEORY, AND PRACTICE

Wiley Software architecture is foundational to the development of large, practical software-intensive applications. This brand-new text covers all facets of software architecture and how it serves as the intellectual centerpiece of software development and evolution. Critically, this text focuses on supporting creation of real implemented systems. Hence the text details not only modeling techniques, but design, implementation, deployment, and system adaptation -- as well as a host of other topics -- putting the elements in context and comparing and contrasting them with one another. Rather than focusing on one method, notation, tool, or process, this new text/reference widely surveys software architecture techniques, enabling the instructor and practitioner to choose the right tool for the job at hand. Software Architecture is intended for upper-division undergraduate and graduate courses in software architecture, software design, component-based software engineering, and distributed systems; the text may also be used in introductory as well as advanced software engineering courses.

COMPUTER AND NETWORK TECHNOLOGY

ECO-ARCHITECTURE

HARMONISATION BETWEEN ARCHITECTURE AND NATURE

WIT Press Unlike the mechanistic buildings it replaces, Eco-Architecture is in harmony with nature, including its immediate environs. Eco-Architecture makes every effort to minimise the use of energy at each stage of the building's life cycle, including that embodied in the extraction and transportation of materials, their fabrication, their assembly into the building and ultimately the ease and value of their recycling when the building's life is over. Featuring papers from the First International Conference on Harmonisation between Architecture and Nature, the text brings together papers of an inter-disciplinary nature, and will be of interest to engineers, planners, physicists, psychologists, sociologists, economists, and other specialists, in addition to architects. Featured topics include: Historical and Philosophical aspects; Ecological and Cultural Sensitivity; Human Comfort and Sick Building Syndrome; Energy Crisis and Building Technologies; Carbon Neutral Design; Alternative Sources of Energy (wind, solar, wave, geothermal etc); Design with Nature; Design with Climate; Siting and Orientation; Re-use of Brownfield Sites; Material Selection; Minimal Transportation Approaches and use of Indigenous Materials; Life Cycle Assessment of Materials; Design by Passive Systems; Conservation and Re-use of Water; Building Operation and Management; Applications in Different Building Types; Regulations and Contracts.

EMOTIONAL ARCHITECTURE FOR EVERYDAY LIFE. ARCHITECTURAL DESIGN FOR SENIOR LIVING ORIENTED BY THE PSYCHOLOGICAL PATTERN OF ELDERLY PEOPLE

Facing the challenges to address complex issues associated with global environmental change and population ageing in the 21st century, architecture design in the developed or developing regions and countries all needs to play a role as a cost-effective tool for sustainable development of our human society rather than a creation only for the sake of art or consumption. This means a substantive ideological change to assess the essential value of architecture according to its long-term impact on people's health and well-being instead of its metaphysical beauty, and more urgently, calls for some effective and efficient approach for architectural research and practice to integrate all the ethical, aesthetic, environmental, technological and economic considerations into an appropriate architectural model. Beyond an intuitive assumption that the design of built environment affects people's Health and well-being, and can have long-term implications for the quality of life, this research tends to provide an evidence-based theoretical and methodological orientation to entail architecture with such positive effects, and hence started from a hypothesis that positive emotional effect is the key linkage to correlate aesthetic experience in and of architecture to human subjective well-being (SWB), which is a predominant indicator for measuring general well-being. Accordingly, emotional architecture for everyday life was coined as a special term in this research to represent such an architectural model that functions as a motivation generator for increasing positive human-environment interactions as well as an affective environment for enriching and regulating human emotional state on a basis of daily life. An interdisciplinary framework involving the research fields of environmental aesthetics, positive psychology and

emotional design was formulated as theoretical foundation to direct this research. This qualitative research has combined two research strategies of bibliographical review and field study in order to capture the pluralistic qualities of this research in relation to the multiple disciplines of psychology and neuroscience, social science, gerontology, and the professional areas of elderly care and care facility development. Seven research methods including close and extensive reading, access to official documents and statistics, field study notes and photography, semi-structured interviews, participant and non-participant observations have been used for data collection; and narrative, descriptive and interpretative analysis have been respectively employed regarding each research objective. Such a mixed method approach was considered to accumulate diversified research materials and perspectives as much as possible. The theoretical research to identify the general concept and methodological model of emotional architecture for everyday life and the applied research to test its applicability in the specific domain of architecture design for senior living have been conducted and sequentially presented as Part I (Chapter 1 & 2) and Part II (Chapter 3, 4 & 5) in this thesis. In Chapter 1, the related philosophical and psychological theories about the role and functioning mechanism of emotions in influencing people's perception, motivation and behavior for formulating ethical ideology, aesthetic appreciation, environmental interaction and subjective well-being have been reviewed and taken as evidence to study why and how emotional design approach is possible to comply user experience of a product or environment with user's long-term well-being. Chapter 2 shows a filtering process to discern the exemplary qualities and design mechanism of emotional architecture for everyday life from the previous architectural design theories and practices by synthesizing the multidisciplinary knowledge reviewed in Chapter 1. Chapter 3 interprets the main influential factors that affirm or oppress design quality and efficacy of senior living architecture in a global context. Chapter 4 explores the essential spatial implications responsive to elderly's psychological needs for everyday life through a series of field studies in a selected public care facility in Barcelona. Chapter 5 presents case studies on four selected architectural projects for senior living in order to generalize the applicable design methods for positive emotional effects. An inherent difference in aspect of the cognitive process for aesthetic appreciation has been found among artists, design professionals and non-professional users/appreciators, which implies an empathetic thinking with the users and/or occupants of architecture is necessary for architectural designers to filter the effective emotional stimuli and design approach for positive emotional effects in the design process. A general distance between the actual efficacy of senior living architecture and its socio-political target of promoting social and individual well-being has been detected to emerge because that (1) an inherited mind-set of relying on social manifestation and engineering measures has resulted in a bureaucratic formula of architecture design to apply the standardized configurations and technologies; and /or, (2) aesthetic design associated with traditional formal and stylistic aesthetics of architecture does not respond to a user-centered design thinking and evidence-based design methodology at psychological level. With regard to achieving the substantive quality of senior living architecture in an aged society as being perceived as safe, healthy, appealing and healing environment for all ages, technical design measures for compensating physical/mental frailty and disabilities need be fused into a humane backdrop rather than being highlighted as indifferent devices. Hence, a methodological model for designing emotional architecture for everyday life and a working model of emotional architecture design for senior living have been established and associated as a practical approach to enhance reciprocal improvement of architectural research and practice with an inclusive vision of human health and well-being. The overarching conclusion of this research has been that strong potential of architecture design to comply with the socio-political paradigm for general welfare goal lies in an integration of reality-based and future-oriented aesthetic philosophy of everyday life, scientific understanding of multidisciplinary knowledge on human factors, and the application of emotional design approach to adapt various targeted users, and existing cultural/natural context and economic/technical conditions.

THE IMAGE OF THE CITY

MIT Press The classic work on the evaluation of city form. What does the city's form actually mean to the people who live there? What can the city planner do to make the city's image more vivid and memorable to the city dweller? To answer these questions, Mr. Lynch, supported by studies of Los Angeles, Boston, and Jersey City, formulates a new criterion—imageability—and shows its potential value as a guide for the building and rebuilding of cities. The wide scope of this study leads to an original and vital method for the evaluation of city form. The architect, the planner, and certainly the city dweller will all want to read this book.

THE HARMONIC MIND: COGNITIVE ARCHITECTURE

DEVELOPING AMBIENT INTELLIGENCE

PROCEEDINGS OF THE SECOND INTERNATIONAL CONFERENCE ON AMBIENT INTELLIGENCE DEVELOPMENTS (AMI.D '07)

Springer Science & Business Media At the time of the introduction of the Ambient Intelligence (Aml) concept many scenarios were considered to be visionary or even science fiction. Enabled by current technology, many aspects of these scenarios are slowly but inexorably becoming true. However, we are still facing important challenges that need further investments in research and industrialization. Current software engineering techniques and tools are not prepared to deal with the development of applications for what we could call Aml ecosystems, lacking a fixed architecture, controlled limits and even owners. The comfortable boundaries of static architectures and well-defined limits and owners are not existent in these Aml ecosystems. In its second year Aml.d again shows the heterogeneity of research challenges related to Ambient Intelligence. Many disciplines are involved and have to co-ordinate their efforts in resolving the strongly related research issues.

THE HOUSE OF THE BACABS, COPÁN, HONDURAS

Dumbarton Oaks Claude Baudez, William L. Fash, Jr., Berthold Riese, William T. Sanders, and David Webster contribute to this monograph, and using an integrated art historical and anthropological approach, consider the House of the Bacabs' context as an elite Maya structure, its excavation and restoration, and its iconographic and epigraphic reconstruction and interpretation, to establish models for understanding Classic Maya social and political life.