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KEY=AND - NOELLE MERCER

QUALITY OF EXPERIENCE

ADVANCED CONCEPTS, APPLICATIONS AND METHODS

Springer *This pioneering book develops definitions and concepts related to Quality of Experience in the context of multimedia- and telecommunications-related applications, systems and services and applies these to various fields of communication and media technologies. The editors bring together numerous key-protagonists of the new discipline "Quality of Experience" and combine the state-of-the-art knowledge in one single volume.*

EMERGING RESEARCH ON NETWORKED MULTIMEDIA COMMUNICATION SYSTEMS

IGI Global

##

QUALITY OF SYNTHETIC SPEECH

PERCEPTUAL DIMENSIONS, INFLUENCING FACTORS, AND INSTRUMENTAL ASSESSMENT

Springer *This book reviews research towards perceptual quality dimensions of synthetic speech, compares these findings with the state of the art, and derives a set of five universal perceptual quality dimensions for TTS signals. They are: (i) naturalness of voice, (ii) prosodic quality, (iii) fluency and intelligibility, (iv) absence of disturbances, and (v) calmness. Moreover, a test protocol for the efficient indentification of those dimensions in a listening test is introduced. Furthermore, several factors influencing these dimensions are examined. In addition, different techniques for the instrumental quality assessment of TTS signals are introduced, reviewed and tested. Finally, the requirements for the integration of an instrumental quality measure into a concatenative TTS system are examined.*

DESIGN OF VIDEO QUALITY METRICS WITH MULTI-WAY DATA ANALYSIS

A DATA DRIVEN APPROACH

Springer *This book proposes a data-driven methodology using multi-way data analysis for the design of video-quality metrics. It also enables video- quality metrics to be created using arbitrary features. This data- driven design approach not only requires no detailed knowledge of the human visual system, but also allows a proper consideration of the temporal nature of video using a three-way prediction model, corresponding to the three-way structure of video. Using two simple example metrics, the author demonstrates not only that this purely data- driven approach outperforms state-of-the-art video-quality metrics, which are often optimized for specific properties of the human visual system, but also that multi-way data analysis methods outperform the combination of two-way data analysis methods and temporal pooling.*

ANALYTIC METHODS OF SOUND FIELD SYNTHESIS

Springer Science & Business Media *This book puts the focus on serving human listeners in the sound field synthesis although the approach can be also exploited in other applications such as underwater acoustics or ultrasonics. The author derives a fundamental formulation based on standard integral equations and the single-layer potential approach is identified as a useful tool in order to derive a general solution. He also proposes extensions to the single-layer potential approach which allow for a derivation of explicit solutions for circular, planar, and linear distributions of secondary sources. Based on above described formulation it is shown that the two established analytical approaches of Wave Field Synthesis and Near-field Compensated Higher Order Ambisonics constitute specific solutions to the general problem which are covered by the single-layer potential solution and its extensions.*

NEURAL CORRELATES OF QUALITY PERCEPTION FOR COMPLEX SPEECH SIGNALS

Springer *This book interconnects two essential disciplines to study the perception of speech: Neuroscience and Quality of Experience, which to date have rarely been used together for the purposes of research on speech quality perception. In five key experiments, the book demonstrates the application of standard clinical methods in neurophysiology on the one hand and of methods used in fields of research concerned with speech quality perception on the other. Using this combination, the book shows that speech stimuli with different lengths and different quality impairments are accompanied by physiological reactions related to quality variations, e.g., a positive peak in an event-related potential. Furthermore, it demonstrates that – in most cases – quality impairment intensity has an impact on the intensity of physiological reactions.*

FEDERAL COMMUNICATIONS COMMISSION REPORTS

DECISIONS, REPORTS, PUBLIC NOTICES, AND OTHER DOCUMENTS OF THE FEDERAL COMMUNICATIONS COMMISSION OF THE UNITED STATES

INTERACTIVE DISTRIBUTED MULTIMEDIA SYSTEMS AND TELECOMMUNICATION SERVICES

6TH INTERNATIONAL WORKSHOP, IDMS'99, TOULOUSE, FRANCE, OCTOBER 12-15, 1999, PROCEEDINGS

Springer Science & Business Media *The 1999 International Workshop on Interactive Distributed Multimedia Sys tems and Telecommunication Services (IDMS) in Toulouse is the sixth in a se ries that started in 1992. The previous workshops were held in*

Stuttgart in 1992, Hamburg in 1994, Berlin in 1996, Darmstadt in 1997, and Oslo in 1998. The area of interest of IDMS ranges from basic system technologies, such as networking and operating system support, to all kinds of teleservices and distributed multimedia applications. Technical solutions for telecommunications and distributed multimedia systems are merging and quality-of-service (QoS) will play a key role in both areas. However, the range from basic system tech nologies to distributed mutlimedia applications and teleservices is still very broad and we have to understand the implications of multimedia applications and their requirements for middleware and networks. We are challenged to develop new and more fitting solutions for all distributed multimedia systems and telecom munication services to meet the requirements of the future information society.

NETWORKING AND TELECOMMUNICATIONS: CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

IGI Global *"This multiple-volume publications exhibits the most up-to-date collection of research results and recent discoveries in the transfer of knowledge access across the globe"--Provided by publisher.*

ASSESSING THE QUALITY OF EXPERIENCE OF CLOUD GAMING SERVICES

Springer Nature *This book provides an overview of concepts and challenges in intis investigated using structural equation modeling. The conveyed understanding of gaming QoE, empirical eraction quality in the domain of cloud gaming services. The author presents a unified evaluation approach by combining quantitative subjective assessment methods in a concise way. The author discusses a measurement tool, Gaming Input Quality Scale (GIPS), that assesses the interaction quality of such a service available. Furthermore, the author discusses a new framework to assess gaming Quality of Experience (QoE) using a crowdsourcing approach. Lastly, based on a large dataset including dominant network and encoding conditions, the evaluation method is investigated using structural equation modeling. The conveyed understanding of gaming QoE, empirical findings, and models presented in this book should be of particular interest to researchers working in the fields of quality and usability engineering, as well as service providers and network operators.*

MOTIVATION OF WORKERS ON MICROTASK CROWDSOURCING PLATFORMS

Springer *This book studies the motivation of crowdworkers to find out how to attract more people and reach a higher quality of outcomes. The book first proposes a taxonomy for studying the motivation of crowdworkers including the potential influencing factors,*

different types of motivation, and possible consequences and outcomes related to the motivation. Next, the CWMS questionnaire, an instrument for measuring the underlying motivation of crowdworkers is developed. It considers different dimensions of motivation suggested by the Self-Determination Theory of motivation which is a well-established and empirically validated psychological theory used in various domains. This instrument can be used to study the effect of platform and user characteristics on the general motivation of crowdworkers. Later, the task-specific motivation of crowdworkers is studied in detail: Influencing factors are investigated, subjective methods for measuring them are evaluated, a model for predicting worker's decision on taking a task is proposed, the relative importance of different factors for two populations of crowdworkers is studied, and finally, a model for predicting the expected workload (as one of the major influencing factors) given the task design is proposed.

DIMENSION-BASED QUALITY MODELING OF TRANSMITTED SPEECH

Springer Science & Business Media *In this book, speech transmission quality is modeled on the basis of perceptual dimensions. The author identifies those dimensions that are relevant for today's public-switched and packet-based telecommunication systems, regarding the complete transmission path from the mouth of the speaker to the ear of the listener. Both narrowband (300-3400 Hz) as well as wideband (50-7000 Hz) speech transmission is taken into account. A new analytical assessment method is presented that allows the dimensions to be rated by non-expert listeners in a direct way. Due to the efficiency of the test method, a relatively large number of stimuli can be assessed in auditory tests. The test method is applied in two auditory experiments. The book gives the evidence that this test method provides meaningful and reliable results. The resulting dimension scores together with respective overall quality ratings form the basis for a new parametric model for the quality estimation of transmitted speech based on the perceptual dimensions. In a two-step model approach, instrumental dimension models estimate dimension impairment factors in a first step. The resulting dimension estimates are combined by a Euclidean integration function in a second step in order to provide an estimate of the total impairment.*

JOURNAL OF RESEARCH OF THE NATIONAL BUREAU OF STANDARDS

ESTIMATING SPOKEN DIALOG SYSTEM QUALITY WITH USER MODELS

Springer Science & Business Media *Spoken dialog systems have the potential to offer highly intuitive user interfaces, as they allow systems to be controlled using natural language. However, the complexity inherent in natural language dialogs means that careful testing of the system must be carried out from the very beginning of the design process. This book examines how user models can be used to support such early evaluations in two ways: by running simulations of dialogs, and by estimating the quality judgments*

of users. First, a design environment supporting the creation of dialog flows, the simulation of dialogs, and the analysis of the simulated data is proposed. How the quality of user simulations may be quantified with respect to their suitability for both formative and summative evaluation is then discussed. The remainder of the book is dedicated to the problem of predicting quality judgments of users based on interaction data. New modeling approaches are presented, which process the dialogs as sequences, and which allow knowledge about the judgment behavior of users to be incorporated into predictions. All proposed methods are validated with example evaluation studies.

USER ACCEPTANCE OF MOBILE NOTIFICATIONS

Springer *This book presents an alternative approach to studying smartphone-app user notifications. It starts with insights into user acceptance of mobile notifications in order to provide tools to support users in managing these. It extends previous research by investigating factors that influence users' perception of notifications and proposes tools addressing the shortcomings of current systems. It presents a technical framework and testbed as an approach for evaluating the usage of mobile applications and notifications, and then discusses a series of studies based on this framework that investigate factors influencing users' perceptions of mobile notifications. Lastly, a set of design guidelines for the usage of mobile notifications is derived that can be employed to support users in handling notifications on smartphones.*

INTERNATIONAL TELECOMMUNICATIONS ISSUES

HEARING BEFORE THE SUBCOMMITTEE ON COMMUNICATIONS OF THE COMMITTEE ON COMMERCE, SCIENCE, AND TRANSPORTATION, UNITED STATES SENATE, ONE HUNDREDTH CONGRESS, SECOND SESSION ... APRIL 19, 1988

QUALITY OF EXPERIENCE MODELING FOR CLOUD GAMING SERVICES

Springer Nature

AN EVALUATION FRAMEWORK FOR MULTIMODAL INTERACTION

DETERMINING QUALITY ASPECTS AND MODALITY CHOICE

Springer Science & Business Media *This book presents (1) an exhaustive and empirically validated taxonomy of quality aspects of*

multimodal interaction as well as respective measurement methods, (2) a validated questionnaire specifically tailored to the evaluation of multimodal systems and covering most of the taxonomy's quality aspects, (3) insights on how the quality perceptions of multimodal systems relate to the quality perceptions of its individual components, (4) a set of empirically tested factors which influence modality choice, and (5) models regarding the relationship of the perceived quality of a modality and the actual usage of a modality.

VOIP TECHNOLOGIES

BoD – Books on Demand *This book provides a collection of 15 excellent studies of Voice over IP (VoIP) technologies. While VoIP is undoubtedly a powerful and innovative communication tool for everyone, voice communication over the Internet is inherently less reliable than the public switched telephone network, because the Internet functions as a best-effort network without Quality of Service guarantee and voice data cannot be retransmitted. This book introduces research strategies that address various issues with the aim of enhancing VoIP quality. We hope that you will enjoy reading these diverse studies, and that the book will provide you with a lot of useful information about current VoIP technology research.*

HUMAN INFORMATION PROCESSING IN SPEECH QUALITY ASSESSMENT

Springer Nature *This book provides a new multi-method, process-oriented approach towards speech quality assessment, which allows readers to examine the influence of speech transmission quality on a variety of perceptual and cognitive processes in human listeners. Fundamental concepts and methodologies surrounding the topic of process-oriented quality assessment are introduced and discussed. The book further describes a functional process model of human quality perception, which theoretically integrates results obtained in three experimental studies. This book's conceptual ideas, empirical findings, and theoretical interpretations should be of particular interest to researchers working in the fields of Quality and Usability Engineering, Audio Engineering, Psychoacoustics, Audiology, and Psychophysiology.*

SIMULATION-BASED USABILITY EVALUATION OF SPOKEN AND MULTIMODAL DIALOGUE SYSTEMS

Springer *This book describes an extension of the user behaviour simulation (UBS) of an existing tool for automatic usability evaluation (AUE). This extension is based upon a user study with a smart home system. It uses technical-sociological methods for the execution of the study and the analysis of the collected data. A comparison of the resulting UBS with former UBSs, as well as the empirical data, shows that the new simulation approach outperforms the former simulation. The improvement affects the prediction of*

dialogue metrics that are related to dialogue efficiency and dialogue effectiveness. Furthermore, the book describes a parameter-based data model, as well as a related framework. Both are used to uniformly describe multimodal human-computer interactions and to provide such descriptions for usability evaluations. Finally, the book proposes a new two-stage method for the evaluation of UBSs. The method is based on the computation of a distance measures between two dialogue corpora and the pair-wise comparison of distances among several dialogue corpora.

QUALITY PROGRESS

EMPLOYMENT PRACTICES AND BUSINESS STRATEGY

Oxford University Press *This book explores the reasons for persistent differences in work practices both within and between industries. The authors found that the strategy that a firm chooses to follow often determines the kind of work practices it fosters. Therefore a firm may not adopt the approach now advocated by many management thinkers--in which decision-making is pushed down to the lowest level of the firm--because this choice may not be consistent with its competitive strategy. The authors discuss the ways that public policy can aid workers without subverting the strategic choices made by firms.*

INTEGRAL AND DIAGNOSTIC INTRUSIVE PREDICTION OF SPEECH QUALITY

Springer Science & Business Media *This work deals with the instrumental measurement methods for the perceived quality of transmitted speech. These measures simulate the speech perception process employed by human subjects during auditory experiments. The measure standardized by the International Telecommunication Union (ITU), called "Wideband-Perceptual Speech Quality Evaluation (WB-PESQ)", is not able to quantify all these perceived characteristics on a unidimensional quality scale, the Mean Opinion Score (MOS) scale. Recent experimental studies showed that subjects make use of several perceptual dimensions to judge about the quality of speech signals. In order to represent the signal at a higher stage of perception, a new model, called "Diagnostic Instrumental Assessment of Listening quality (DIAL)", has been developed. It includes a perceptual and a cognitive model which simulate the whole quality judgment process. Except for strong discontinuities, DIAL predicts very well speech quality of different speech processing and transmission systems, and it outperforms the WB-PESQ.*

NIST SPECIAL PUBLICATION

MULTIDIMENSIONAL ANALYSIS OF CONVERSATIONAL TELEPHONE SPEECH

Springer *This book presents a new diagnostic information methodology to assess the quality of conversational telephone speech. For this, a conversation is separated into three individual conversational phases (listening, speaking, and interaction), and for each phase corresponding perceptual dimensions are identified. A new analytic test method allows gathering dimension ratings from non-expert test subjects in a direct way. The identification of the perceptual dimensions and the new test method are validated in two sophisticated conversational experiments. The dimension scores gathered with the new test method are used to determine the quality of each conversational phase, and the qualities of the three phases, in turn, are combined for overall conversational quality modeling. The conducted fundamental research forms the basis for the development of a preliminary new instrumental diagnostic conversational quality model. This multidimensional analysis of conversational telephone speech is a major landmark towards deeply analyzing conversational speech quality for diagnosis and optimization of telecommunication systems.*

TELECOMMUNICATIONS COMPETITION AND DEREGULATION ACT OF 1981

HEARINGS BEFORE THE COMMITTEE ON COMMERCE, SCIENCE, AND TRANSPORTATION, UNITED STATES SENATE, NINETY-SEVENTH CONGRESS, FIRST SESSION, ON S. 898 ... JUNE 2, 11, 15, 16, AND 19, 1981

ROUTLEDGE FRENCH TECHNICAL DICTIONARY DICTIONNAIRE TECHNIQUE ANGLAIS

VOLUME 2 ENGLISH-FRENCH/ANGLAIS-FRANCAIS

Routledge *The French-English volume of this highly acclaimed set consists of some 100,000 keywords in both French and English, drawn from the whole range of modern applied science and technical terminology. Covers over 70 subject areas, from engineering and chemistry to packaging, transportation, data processing and much more.*

FORMAL METHODS AND SOFTWARE ENGINEERING

5TH INTERNATIONAL CONFERENCE ON FORMAL ENGINEERING METHODS, ICFEM 2003, SINGAPORE, NOVEMBER 5-7, 2003, PROCEEDINGS

Springer Science & Business Media *This book constitutes the refereed proceedings of the 5th International Conference on Formal*

Engineering Methods, ICFEM 2003, held in Singapore in November 2003. The 34 revised full papers presented together with 3 invited contributions were carefully reviewed and selected from 91 submissions. The papers are organized in topical sections on testing and validation, state diagrams, PVS/HOL, refinement, hybrid systems, Z/Object-Z, Petri nets, timed automata, system modelling and checking, and semantics and synthesis.

PERCEIVED PRIVACY IN LOCATION-BASED MOBILE SYSTEM

Springer Nature *This work aims at understanding behavior around location information, including why users share such information, why they protect the data, and what kind of other factors influence the decision to behave in a certain way. This book explores privacy in the context of location data, and answers questions such as what are the privacy related behaviors in this context, and what are the factors influencing such behaviors. The book gives an overview to what privacy means for users in terms of understandings, attitudes and valuations. This book discusses reasons for why research around this topic is challenging, and presents various methods for diving into the topic through empirical studies. The work is relevant for professionals, researchers, and users of technology.*

THE COMMUNICATIONS ACT OF 1979: TITLES I AND III

THE COMMUNICATIONS ACT OF 1979

HEARINGS BEFORE THE SUBCOMMITTEE ON COMMUNICATIONS OF THE COMMITTEE ON INTERSTATE AND FOREIGN COMMERCE, HOUSE OF REPRESENTATIVES, NINETY-SIXTH CONGRESS, FIRST SESSION, ON H.R. 3333

LIMITED BY DESIGN

R&D LABORATORIES IN THE U.S. NATIONAL INNOVATION SYSTEM

Columbia University Press *Limited by Design is the first comprehensive study of the varying roles played by the more than 16,000 research and development laboratories in the U.S. national innovation system. Michael Crow and Barry Bozeman offer policy makers and scientists a blueprint for making more informed decisions about how to best utilize and develop the capabilities of these facilities. Some labs, such as Bell Labs, Westinghouse, and Eastman Kodak, have been global players since the turn of the century. Others, such as Los Alamos National Laboratory, have been mainstays of the military/energy industrial complex since they evolved in the 1940s. These and other institutions have come to serve as the infrastructure upon which a range of industries have relied and have had a*

tremendous impact on U.S. social and economic history. Michael Crow and Barry Bozeman illustrate the histories, missions, structure, and behavior of individual laboratories, and explore the policy contexts in which they are embedded. In studying this large and varied collection of labs, Crow, Bozeman, and their colleagues develop a new framework for understanding the structure and behavior of laboratories that also provides a basis for rationalizing federal science and technology policy to create more effective laboratories. The book draws upon interviews and surveys collected from thousands of scientists, administrators, and policy makers, and features boxed "lab windows" throughout that provide detailed information on the variety of laboratories active in the U.S. national innovation system. Limited by Design addresses a range of questions in order to enable policy makers, university administrators, and scientists to plan effectively for the future of research and development.

CONTENT NETWORKING

ARCHITECTURE, PROTOCOLS, AND PRACTICE

Elsevier *As the Internet has grown, so have the challenges associated with delivering static, streaming, and dynamic content to end-users. This book is unique in that it addresses the topic of content networking exclusively and comprehensively, tracing the evolution from traditional web caching to today's open and vastly more flexible architecture. With this evolutionary approach, the authors emphasize the field's most persistent concepts, principles, and mechanisms--the core information that will help you understand why and how content delivery works today, and apply that knowledge in the future. + Focuses on the principles that will give you a deep and timely understanding of content networking. + Offers dozens of protocol-specific examples showing how real-life Content Networks are currently designed and implemented. + Provides extensive consideration of Content Services, including both the Internet Content Adaptation Protocol (ICAP) and Open Pluggable Edge Services (OPES). + Examines methods for supporting time-constrained media such as streaming audio and video and real-time media such as instant messages. + Combines the vision and rigor of a prominent researcher with the practical experience of a seasoned development engineer to provide a unique combination of theoretical depth and practical application.*

EMOTIONAL FEEDBACK FOR MOBILE DEVICES

Springer *This book investigates the functional adequacy as well as the affective impression made by feedback messages on mobile devices. It presents an easily adoptable experimental setup to examine context effects on various feedback messages and applies it to auditory, tactile and auditory-tactile feedback messages. This approach provides insights into the relationship between the affective impression and functional applicability of these messages as well as an understanding of the influence of unimodal components on the*

perception of multimodal feedback messages. The developed paradigm can also be extended to investigate other aspects of context and used to investigate feedback messages in modalities other than those presented. The book uses questionnaires implemented on a Smartphone, which can easily be adopted for field studies to broaden the scope even wider. Finally, the book offers guidelines for the design of system feedback.

FORMAL METHODS FOR OPEN OBJECT-BASED DISTRIBUTED SYSTEMS V

IFIP TC6 / WG6.1 FIFTH INTERNATIONAL CONFERENCE ON FORMAL METHODS FOR OPEN OBJECT-BASED DISTRIBUTED SYSTEMS (FMOODS 2002) MARCH 20–22, 2002, ENSCHEDE, THE NETHERLANDS

Springer Science & Business Media *Formal Methods for Open Object-Based Distributed Systems V brings together research in three important and related fields: Formal methods; Distributed systems; Object-based technology. Such a convergence is representative of recent advances in the field of distributed systems, and provides links between several scientific and technological communities. The wide scope of topics covered in this volume range in subject from UML to object-based languages and calculi and security, and in approach from specification to case studies and verification. This volume comprises the proceedings of the Fifth International Conference on Formal Methods for Open Object-Based Distributed Systems (FMOODS 2002), which was sponsored by the International Federation for Information Processing (IFIP) and held in Enschede, The Netherlands in March 2002.*

DIMENSION-BASED QUALITY ANALYSIS AND PREDICTION FOR VIDEOTELEPHONY

Springer Nature *This book provides an in-depth investigation of the quality relevant perceptual video space in the domain of videotelephony. The author presents an extensive investigation and quality modeling of the underlying video quality dimensions and the overall quality. The author examines the underlying quality dimensions and describes a method for subjective evaluation as well as the instrumental estimation of video quality in videotelephony. The book presents a new subjective test method in the field of video quality assessment. Further, it explains the experimental examination of the underlying video quality dimensions and the subjective-based, as well as instrumental-based quality estimation. Provides an investigation of the underlying quality dimensions of video in videotelephony; Presents insights into a new subjective test method, standardized as ITU-T Rec. P.918; Includes insights into the subjective and instrumental video quality estimation.*

DEEP LEARNING BASED SPEECH QUALITY PREDICTION

Springer Nature

ADVANCED METHODS FOR COMPUTATIONAL COLLECTIVE INTELLIGENCE

Springer *The book consists of 35 extended chapters which have been selected and invited from the submissions to the 4th International Conference on Computational Collective Intelligence Technologies and Applications (ICCCI 2012) held on November 28-30, 2012 in Ho Chi Minh City, Vietnam. The book is organized into six parts, which are semantic web and ontologies, social networks and e-learning, agent and multiagent systems, data mining methods and applications, soft computing, and optimization and control, respectively. All chapters in the book discuss theoretical and practical issues connected with computational collective intelligence and related technologies. The editors hope that the book can be useful for graduate and Ph.D. students in Computer Science, in particular participants in courses on Soft Computing, Multiagent Systems, and Data Mining. This book can be also useful for researchers working on the concept of computational collective intelligence in artificial populations. It is the hope of the editors that readers of this volume can find many inspiring ideas and use them to create new cases of intelligent collectives. Many such challenges are suggested by particular approaches and models presented in individual chapters of this book. The editors hope that readers of this volume can find many inspiring ideas and influential practical examples and use them in their future work.*

THE HUMAN-COMPUTER INTERACTION HANDBOOK

FUNDAMENTALS, EVOLVING TECHNOLOGIES AND EMERGING APPLICATIONS, THIRD EDITIION

CRC Press *The Human-Computer Interaction Handbook: Fundamentals, Evolving Technologies, and Emerging Applications is a comprehensive survey of this fast-paced field that is of interest to all HCI practitioners, educators, consultants, and researchers. This includes computer scientists; industrial, electrical, and computer engineers; cognitive scientists; exp*