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TOMMY BRYCEN

Advances in Natural Language Processing, Intelligent Informatics and Smart Technology Springer

Enterprise Information Systems (EIS) integrate and support business processes across functional boundaries in a supply chain environment, and have become increasingly popular over the last 15 years. In recent years, more and more enterprises world-wide have adopted EIS such as Enterprise Resource Planning (ERP) for running their businesses. Previously, information systems such as

CAD, CAM, MRPII and CRM were widely used for partial functional integration within a business organization. With global operation, global supply chain, and fierce competition in place, there is a need for suitable EIS such as ERP, E-Business or E-Commerce systems to integrate extended enterprises in a supply chain environment with the objective of achieving efficiency, competency, and competitiveness. As a result, there is a growing demand for researching EIS to provide insights into challenges, issues, and solutions related to the design, implementation and management of EIS. The papers in Advances in Enterprise Information Systems were selected from two premier international conferences: the International Forum of Information

Systems Frontiers—Xian International Symposium (IFISF), June 29-30, 2006, Xian, China and the IFIP TC 8.9 International Conference on Research and Practical Issues of Enterprise Information Systems (Confenis 2007), October 14-16, Beijing, China. Both events provided an excellent opportunity for EIS academicians and practitioners in the world to gather and exchange ideas, and present original research in their fields. Advances in Enterprise Information Systems will be invaluable to scientists, researchers and professionals in EIS.

Digital Human Modeling Frontiers Media SA

In recent years, our world has experienced a profound shift and progression in available computing and knowledge sharing innovations. These emerging advancements have developed at a rapid pace, disseminating into and affecting numerous aspects of contemporary society. This has created a pivotal need for an innovative compendium encompassing the latest trends, concepts, and issues surrounding this relevant discipline area. During the past 15 years, the Encyclopedia of Information Science and Technology has become recognized as one of the landmark sources of the latest knowledge and discoveries in this discipline. The Encyclopedia of Information Science and Technology, Fourth Edition is a 10-volume set which includes 705 original and previously unpublished research articles covering a full range of perspectives, applications, and techniques contributed by thousands of experts and researchers from around the globe. This authoritative encyclopedia is an all-encompassing, well-established reference source that is ideally designed to disseminate the most forward-thinking and diverse research findings. With critical perspectives on the impact of information

science management and new technologies in modern settings, including but not limited to computer science, education, healthcare, government, engineering, business, and natural and physical sciences, it is a pivotal and relevant source of knowledge that will benefit every professional within the field of information science and technology and is an invaluable addition to every academic and corporate library.

Image Processing: Concepts, Methodologies, Tools, and Applications Academic Press

Advancements in digital technology continue to expand the image science field through the tools and techniques utilized to process two-dimensional images and videos. Image Processing: Concepts, Methodologies, Tools, and Applications presents a collection of research on this multidisciplinary field and the operation of multi-dimensional signals with systems that range from simple digital circuits to computers. This reference source is essential for researchers, academics, and students in the computer science, computer vision, and electrical engineering fields.

Advanced Image and Video Processing Using MATLAB Springer
Multilingual classrooms and online communication are becoming increasingly linguistically diverse due to globalization and new discourse patterns are emerging. Many of these patterns include the use of linguistic resources from multiple languages in the same utterance. Translanguaging, a recent theoretical framework, is gaining prominence among scholars interested in studying these multilingual discursive practices and the concept of a unitary language system for lexical processing. The aim of this book is to gain a better understanding of the bilingual brain

and how words and sentences that use features from socially distinct languages are processed. Using examples provided by multilingual study participants, a categorization of the various forms of translanguaging is developed to build a translanguaging model. Psycholinguistic methods such as eye tracking are combined with conventional sociolinguistic survey methodology to provide rich qualitative and quantitative data that address the cognitive effects of translanguaging and the underlying structure of translingual word-formations. This monograph shows how language biography, exposure, and attitude towards multilingual discursive practices all affect cognitive processing. It also demonstrates how multilingual speakers are setting the patterns for novel word-formations to be produced, thus having a social, cultural, and cognitive impact on how we communicate.

[AETA 2016: Recent Advances in Electrical Engineering and Related Sciences](#) Springer

This book constitutes the refereed proceedings of the 29th Symposium of the German Association for Pattern Recognition, DAGM 2007. It covers image filtering, restoration and segmentation, shape analysis and representation, categorization and detection, computer vision and image retrieval, machine learning and statistical data analysis, biomedical data analysis, motion analysis and tracking, stereo and structure from motion, as well as 3D view registration and surface modeling.

[Eye Tracking](#) Packt Publishing Ltd

This book constitutes the thoroughly refereed proceedings of the Eleventh International Symposium on Natural Language Processing (SNLP-2016), held in Phranakhon Si Ayutthaya, Thailand on February 10-12, 2016. The SNLP promotes research

in natural language processing and related fields, and provides a unique opportunity for researchers, professionals and practitioners to discuss various current and advanced issues of interest in NLP. The 2016 symposium was expanded to include the First Workshop in Intelligent Informatics and Smart Technology. Of the 66 high-quality papers accepted, this book presents twelve from the Symposium on Natural Language Processing track and ten from the Workshop in Intelligent Informatics and Smart Technology track (SSAI: Special Session on Artificial Intelligence).

[Eye Tracking and Visualization](#) Springer

This book presents the state-of-the-art in face detection and analysis. It outlines new research directions, including in particular psychology-based facial dynamics recognition, aimed at various applications such as behavior analysis, deception detection, and diagnosis of various psychological disorders. Topics of interest include face and facial landmark detection, face recognition, facial expression and emotion analysis, facial dynamics analysis, face classification, identification, and clustering, and gaze direction and head pose estimation, as well as applications of face analysis.

[The Elements of MATLAB Style](#) Robert Koprowski

This book offers a comprehensive introduction to advanced methods for image and video analysis and processing. It covers deraining, dehazing, inpainting, fusion, watermarking and stitching. It describes techniques for face and lip recognition, facial expression recognition, lip reading in videos, moving object tracking, dynamic scene classification, among others. The book combines the latest machine learning methods with computer

vision applications, covering topics such as event recognition based on deep learning, dynamic scene classification based on topic model, person re-identification based on metric learning and behavior analysis. It also offers a systematic introduction to image evaluation criteria showing how to use them in different experimental contexts. The book offers an example-based practical guide to researchers, professionals and graduate students dealing with advanced problems in image analysis and computer vision.

Image Analysis for Ophthalmological Diagnosis Springer Nature

Recent advances in eye tracking technology will allow for a proliferation of new applications. Improvements in interactive methods using eye movement and gaze control could result in faster and more efficient human computer interfaces, benefitting users with and without disabilities. Gaze Interaction and Applications of Eye Tracking: Advances in Assistive Technologies focuses on interactive communication and control tools based on gaze tracking, including eye typing, computer control, and gaming, with special attention to assistive technologies. For researchers and practitioners interested in the applied use of gaze tracking, the book offers instructions for building a basic eye tracker from off-the-shelf components, gives practical hints on building interactive applications, presents smooth and efficient interaction techniques, and summarizes the results of effective research on cutting edge gaze interaction applications.

Intra- and Inter-individual Variability of Executive Functions: Determinant and Modulating Factors in Healthy and Pathological Conditions Springer

This book is a fast-paced guide with practical, hands-on recipes

which will show you how to prototype Beagleboard-based audio/video applications using Matlab/Simlink and Sourcery Codebench on a Windows host. Beagleboard Embedded Projects is great for students and academic researchers who have practical ideas and who want to build a proof-of-concept system on an embedded hardware platform quickly and efficiently. It is also useful for product design engineers who want to ratify their applications and reduce the time-to-market. It is assumed that you are familiar with Matlab/Simulink and have some basic knowledge of computer hardware. Experience in Linux is favoured but not necessary, as our software development is purely on a Windows host.

Structural, Syntactic, and Statistical Pattern Recognition Springer

This eBook attempts to unify the contributions of different research groups investigating the sources of variability in executive functions, discussing the most recent developments and integrating the knowledge accumulated across different fields. It consists of a compilation of empirical, theoretical and review articles studying executive functions in both clinical and healthy human populations. Some of the key influences on intra- and inter-variability in executive functions discussed include the developmental trajectory of executive functions, healthy and pathological aging in executive functions, as well as the influence of environmental factors and intelligence on executive functions.

Encyclopedia of Information Science and Technology, Fourth Edition Cambridge University Press

As modern technologies continue to develop and evolve, the ability of users to adapt with new systems becomes a paramount

concern. Research into new ways for humans to make use of advanced computers and other such technologies through artificial intelligence and computer simulation is necessary to fully realize the potential of tools in the 21st century. *Advanced Methodologies and Technologies in Artificial Intelligence, Computer Simulation, and Human-Computer Interaction* provides emerging research in advanced trends in robotics, AI, simulation, and human-computer interaction. Readers will learn about the positive applications of artificial intelligence and human-computer interaction in various disciplines such as business and medicine. This book is a valuable resource for IT professionals, researchers, computer scientists, and researchers invested in assistive technologies, artificial intelligence, robotics, and computer simulation.

Identification of emotions through EEG: Elicitation protocols, mapping methods, signal processing and classification strategies, applications Walter de Gruyter GmbH & Co KG

The two-volume set CCIS 662 and CCIS 663 constitutes the refereed proceedings of the 7th Chinese Conference on Pattern Recognition, CCPR 2016, held in Chengdu, China, in November 2016. The 121 revised papers presented in two volumes were carefully reviewed and selected from 199 submissions. The papers are organized in topical sections on robotics; computer vision; basic theory of pattern recognition; image and video processing; speech and language; emotion recognition.

Translanguaging and the Bilingual Brain IGI Global

This book presents the latest research on computational approaches to learning. It includes high-quality peer-reviewed papers from the “Intelligent and Interactive Computing

Conference (IIC 2018)” organized by the Universiti Teknikal Malaysia, Melaka. It uses empirical studies, theoretical analysis, and comparisons with psychological phenomena to show how learning methods can be employed to solve important application problems. The book also describes ongoing research in various research labs, universities and institutions, which may lead to the development of marketable products.

XIV Mediterranean Conference on Medical and Biological Engineering and Computing 2016 Springer

The recording and analysis of electrical brain activity associated with eye movements has a history of several decades. While the early attempts were primarily focused on uncovering the brain mechanisms of eye movements, more recent approaches use eye movements as markers of the ongoing brain activity to investigate perceptual and cognitive processes. This recent approach of segmenting brain activity based on eye movement behavior has several important advantages. First, the eye movement system is closely related to cognitive functions such as perception, attention and memory. This is not surprising since eye movements provide the easiest and the most accurate way to extract information from our visual environment and the eye movement system largely determines what information is selected for further processing. The eye movement-based segmentation offers a great way to study brain activity in relation to these processes. Second, on the methodological level, eye movements constitute a natural marker to segment the ongoing brain activity. This overcomes the problem of introducing artificial markers such as ones for stimulus presentation or response execution that are typical for a lab-based research. This opens

possibilities to study brain activity during self-paced perceptual and cognitive behavior under naturalistic conditions such as free exploration of scenes. Third, by relating eye movement behavior to the ongoing brain activity it is possible to see how perceptual and cognitive processes unfold in time, being able to predict how brain activity eventually leads to behavior. This research topic illustrates advantages of the combined recording and analysis of eye movements and neural signals such as EEG, local field potentials and fMRI for investigation of the brain processes in humans and animals. The contributions include research papers, methodology papers and reviews demonstrating conceptual and methodological achievements in this rapidly developing field.

Intelligent Information and Database Systems Springer
This book constitutes the refereed proceedings of the First International Conference on Digital Human Modeling, DHM 2007, held in Beijing, China in July 2007. The papers thoroughly cover the thematic area of digital human modeling, addressing the following major topics: shape and movement modeling and anthropometry, building and applying virtual humans, medical and rehabilitation applications, as well as industrial and ergonomic applications.

Pedestrian Detection Algorithms using Shearlets CRC Press
Attention refers to our ability to selectively process the vast array of stimuli impinging upon our senses at every moment. The mental processes of attention are critical for allowing us to maintain focus and complete tasks efficiently, even within distracting environments. The brain mechanisms of attention have been studied for decades, yet much still remains unknown, and consensus on core issues remains elusive. A unique aspect of

this book are chapters that highlight recent debates on critical issues in attention research. Each of these chapters includes a comprehensive discussion paper that is followed by peer commentaries and an authors' responses. These debates include whether attention can modulate activity of even the earliest cortical processing region and whether changes in white matter are critical for plasticity-related effects of attention training. In addition to these discussion chapters, the book presents cutting-edge research on some of the newest theories of attentional control and selective attention, including the influence of practice, epigenetics, reward, social interaction, and distractor suppression. These studies employ advanced cognitive neuroscience methods such as neurostimulation, functional neuroimaging pattern analysis, and the evaluation of oscillatory brain activity to shed light on the brain mechanisms underlying attention. The chapters in this book were originally published as articles in various issues of the journal *Cognitive Neuroscience*.

Image Processing in Optical Coherence Tomography Using Matlab Springer Nature

ICIAR 2005, the International Conference on Image Analysis and Recognition, was the second ICIAR conference, and was held in Toronto, Canada. ICIAR is organized annually, and alternates between Europe and North America. ICIAR 2004 was held in Porto, Portugal. The idea of offering these conferences came as a result of discussion between researchers in Portugal and Canada to encourage collaboration and exchange, mainly between these two countries, but also with the open participation of other countries, addressing recent advances in theory, methodology and applications.

The response to the call for papers for ICIAR 2005 was encouraging. From 295 full papers submitted, 153 were finally accepted (80 oral presentations, and 73 posters). The review process was carried out by the Program Committee members and other reviewers; all are experts in various image analysis and recognition areas. Each paper was reviewed by at least two reviewers, and also checked by the conference co-chairs. The high quality of the papers in these proceedings is attributed first to the authors, and second to the quality of the reviews provided by the experts. We would like to thank the authors for responding to our call, and we wholeheartedly thank the reviewers for their excellent work, and for their timely response. It is this collective effort that resulted in the strong conference program and high-quality proceedings in your hands.

Advances in Face Detection and Facial Image Analysis IGI Global
This volume explores the latest eye-tracking methodologies that help researchers understand the background, methods, and applications involved in these studies. The chapters in this book cover topics such as methods and models of eye-tracking in

natural environments; natural gaze informatics (i.e., assisted wheelchair mobility); eye-tracking application to understand the visual control of locomotion; eye movement in neurological disorders; and eye movements in sports research and practice. In the Neuromethods series style, chapters include the kind of detail and key advice from the specialists needed to get successful results in your laboratory. Cutting-edge and practical, *Eye Tracking: Background, Methods, and Applications* is a valuable resource for experienced and novice researchers interested in learning more about this field and its future developments.

Proceedings of International Conference on Advances in Computer Engineering and Communication Systems Springer
This groundbreaking resource offers a comprehensive overview of cutting-edge video-based eye monitoring algorithms, as well as human factor algorithms and experiments. Helping to apply the skills in Intelligent Human Machine Interaction (IHMI), this practical reference shows how the core low-level building blocks are implemented and how they are linked with human factor algorithms and human-machine interfaces (HMI) in smart vehicles, sensitive environments and medical facilities.