Concurrency Strategy Adaptation Using Learning State Machines

Documents the conference with 57 papers. Among the topics are a multicriteria decision making approach to concurrent engineering in product design, a morphological heuristic for scheduling, multiple-viewpoint computer-aided design models for automotive body-in-white design, product development pract

Executive function is an umbrella term for various cognitive processes that are central to goal-directed behavior, thoughts, and emotions. These processes are especially important in novel or demanding situations, which require a rapid and flexible adjustment of behavior to the changing demands of the environment. The development of executive function relies on the maturation of associated brain regions as well as on stimulation in the child's social contexts, especially the home and school. Over the past decade, the term executive function has become a buzzword in the field of education as both researchers and educators underscore the importance of skills like goal setting, planning, and organizing in academic success. Accordingly, in initiating this Research Topic and eBook our goal was to provide a forum for state-of-the-art theoretical and empirical work on this that both facilitates communication among researchers from diverse fields and provides a theoretically sound source of information for educators. The contributors to this volume, who hail from several different countries in Europe and North America, have certainly accomplished this goal in their nuanced and cutting-edge depictions of the complex links among various executive function components and educational success.

This book brings together different perspectives on ELT materials from a range of international contexts and a variety

of educational settings. All the chapters are underpinned by sound theoretical principles while addressing practical concerns and debates in materials design and use.

This book provides the first comprehensive literature review on the acquisition and retention of complex skills in High Reliability Organizations. Based on this review, it introduces a theoretical model of how skill and knowledge acquisition for complex tasks is accomplished and shows how this model can be used to derive training methods and instructional techniques. Successful acquisition and retention of complex technical skills within High Reliability Organizations requires a full understanding of the learning process, knowledge structure, and skill requirements associated with the effective operation and management of technology. For researchers and for organizations, the understanding of these processes is vital for designing training programs as well as for reducing errors with severe consequences for human lives and the environment. Until now, only theoretical fragments exist on this topic, and only a very limited number of publications actually address complex tasks in vocational/occupational settings. "The Acquisition of Knowledge and Skills for Task Work and Teamwork to Control Complex Technical Systems" uses its literature overview and theoretical model to formulate training principles, that can be used to develop training experiments for further empirical investigations as well as training methods for applied organizational contexts.

"During Visit 1, Clinicians provide survivors with an introduction and overview of the MAAT program and review the eight-session training schedule. The education component covers cancer background, significance, and causes topics as well as helping survivors recognize that not all memory/attention failures are cancer/treatment related (re-attribution). MAAT highlights the important rationale that, while we can't know at the causes of cancer-related memory

problems, we do know that factors such as stress, fatigue, and the divided attention of busy, daily life also contribute to memory problems - and we can change environment, stress response, and manage fatigue through the use of compensatory strategies aimed a minimizing the effects of memory failures. Self-awareness is introduced, and self-monitoring forms are explained and assigned for homework in order to identify the environmental, affective, and cognitive antecedents of memory failures in daily life. Survivors are guided through a Progressive Muscle Relaxation procedure and instructed for home practice with a provided recording"--Exploring the unique challenges of vocational education, this book provides simple and straightforward advice on how to teach English Language Learners in today's Career and Technical Education programs. The authors' teaching framework and case studies draw from common settings in which career and technical educators find themselves working with ELLs—in the classroom, in the laboratory or workshop, and in work-based learning settings. By integrating CTE and academic instruction, and embedding career development activities across the curriculum, readers will gain a better understanding of the challenges of teaching occupationally-oriented content to a diverse group of learners in multiples settings.
Computer technologies are forever evolving and it is vital that computer science educators find new methods of teaching programming in order to maintain the rapid changes occurring in the field. One of the ways to increase student engagement and retention is by integrating games into the curriculum. Gamification-Based E-Learning Strategies for Computer Programming Education evaluates the different approaches and issues faced in integrating games into computer education settings. Featuring emergent trends on the application of gaming to pedagogical strategies and

technological tactics, as well as new methodologies and approaches being utilized in computer programming courses, this book is an essential reference source for practitioners, researchers, computer science teachers, and students pursuing computer science.

The field of agent & multi-agent systems is experiencing tremendous growth whilst that of formal methods has also blossomed. The FAABS (Formal Approaches to Agent-Based Systems) workshops, merging the concerns of the two fields, were thus timely. This book has arisen from the overwhelming response to FAABS '00, '02 & '04 and all chapters are updated or represent new research, & are designed to provide a more in-depth treatment of the topic. Examples of how others have applied formal methods to agent-based systems are included, plus formal method tools & techniques that readers can apply to their own systems. Agent Technology from a Formal Perspective provides an in-depth view of the key issues related to agent technology from a formal perspective. As this is a relatively new interdisciplinary field, there is enormous room for further growth and this book not only creates an initial foundation, but points to the gaps; indicating open problems to be addressed by future researchers, students & practitioners.

Nothing provided

Providing comprehensive coverage of the theoretical bases of metacognition and its applications to educational practice, this compendium of focused and in-depth discussions from leading scholars in the field: represents an intersection of education, cognitive science, and technology; serves as a gateway to the literature for researchers and practitioners interested in one or more of the wide array of topics included; and sets the standard for scholarship for theoretical research

and practical applications in this field. The Handbook of
Metacognition in Education — covering Comprehension
Strategies, Metacognitive Strategies,
Metacomprehension, Writing, Science and Mathematics,
Individual Differences, Self-Regulated Learning,
Technology, Tutoring, and Measurement — is an
essential resource for researchers, faculty, students,
curriculum developers, teachers, and others interested in
using research and theory on metacognition to guide and
inform educational practice.

Progress in Brain Research is the most acclaimed and
accomplished series in neuroscience, firmly established
as an extensive documentation of the advances in
contemporary brain research. The volumes, some of
which are derived from important international symposia,
contain authoritative reviews and original articles by
invited specialists. The rigorous editing of the volumes
assures that they will appeal to all laboratory and clinical
brain research workers in the various disciplines:
neuroanatomy, neurophysiology, neuropharmacology,
neuroendocrinology, neuropathology, basic neurology,
biological psychiatry, and the behavioral sciences. This
volume, The Cerebellum and Memory Formation:
Structure, Computation and Function, covers topics
including feedback control of cerebellar learning; cortico-
cerebellar organization and skill acquisition; cerebellar
plasticity and learning in the oculomotor system, and
more. Leading authors review the state-of-the-art in their
field of investigation, and provide their views and
perspectives for future research The volume reflects
current thinking about the ways in which the cerebellum

can engage in learning, and the contributors come from a variety of research fields. The chapters express perspectives from different levels of analysis that range from molecular and cellular mechanisms through to long-range systems that allow the cerebellum to communicate with other brain areas.

A review of the literature on learning strategies, describing and classifying learning strategies in second language learning.

Provides guidance for teaching culturally and linguistically diverse students within the response to intervention (RTI) framework through the use of two hundred instructional interventions.

This Special Issue covers several recent advances in robotic devices applied to motor rehabilitation and assistance. The Special Issue has collected eight outstanding papers covering different aspects of assistance robotics and biosensors. The selected contributions cover several main topics related to assistance robotics, from the control of myoelectric prostheses to the rehabilitation and assistance of the lower and upper limbs.

Global firms must operate in turbulent conditions, facing relentless pressure to be efficient, whilst also accommodating local factors and ways of thinking. This book offers an insight into how an adaptive multinational enterprise can achieve a sustainable competitive advantage in an uncertain environment. Drawing on ground-breaking research into adaptive strategy, this book introduces compelling tools to help design responsive strategic organizations by cultivating global

strategic democracy. Written by two leading scholars, this book provides models to inform strategic decisions through the aggregation of frontline information. With a wealth of illustrative case examples supplementing unique research, this text is essential reading for students of strategic management and provides illuminating insights for the reflective practitioner. Adaptation and personalization have been extensively studied in CSCL research community aiming to design intelligent systems that adaptively support eLearning processes and collaboration. Yet, with the fast development in Internet technologies, especially with the emergence of new data technologies and the mobile technologies, new opportunities and perspectives are opened for advanced adaptive and personalized systems. Adaptation and personalization are posing new research and development challenges to nowadays CSCL systems. In particular, adaptation should be focused in a multi-dimensional way (cognitive, technological, context-aware and personal). Moreover, it should address the particularities of both individual learners and group collaboration. As a consequence, the aim of this book is twofold. On the one hand, it discusses the latest advances and findings in the area of intelligent adaptive and personalized learning systems. On the other hand it analyzes the new implementation perspectives for intelligent adaptive learning and collaborative systems that are brought by the advances in scripting languages, IMS LD, educational modeling languages and learning activity management systems. Given the variety of learning needs as well as the

existence of different technological solutions, the book exemplifies the methodologies and best practices through several case studies and adaptive real-world collaborative learning scenarios, which show the advancement in the field of analysis, design and implementation of intelligent adaptive and personalized systems.

Essentials of Youth Fitness is an evidence informed, practical guide for fitness and strength and conditioning professionals working with younger clientele. Backed by the American College of Sports Medicine (ACSM) and coauthored by three leading authorities in pediatric exercise science, this cutting-edge book reflects current research. It is built around the modern understanding that youth are not simply smaller versions of adults but are instead a special population with their own specific needs. This is a must-have resource for professionals working with young clients. Readers will learn the scientific theories behind youth training as well as how to apply them to help design effective programs that maximize creativity, engagement, and fun. This seminal resource is broken into three parts to systematically bridge the gap between science and practice. Part I lays the groundwork for understanding fundamental concepts of pediatric exercise science, including physiology, growth and maturation, long-term athletic development, and pedagogical strategies. Part II is devoted to the

assessment of youth fitness and development of fitness components, including motor skill, strength and power, speed and agility, and aerobic and anaerobic fitness, and it features a chapter on designing integrative training programs. This practical section will demonstrate the impact of factors specific to youth on fitness, and it will teach readers how to design programs to meet the needs of youth of varying abilities and different stages of development. Sample training sessions with accompanying exercise photos within each chapter offer clear visual guidelines for implementing exercises correctly. Part III delves into modern-day topics specific to the youth population, including participation in organized sports and injury concerns; overweight and obese youth; those diagnosed with clinical conditions such as diabetes, asthma, and physical and mental disabilities; and the role of nutrition in healthy lifestyle habits. Learning aids throughout the text enhance comprehension and enable practitioners to quickly locate important information. Chapter objectives and key terms reinforce learning, while Teaching Tip boxes contextualize important themes and Do You Know? boxes illustrate practical application of the content. Combining the science of pediatric exercise with the practice of designing youth fitness programs, Essentials of Youth Fitness provides professionals with the information necessary to create a safe,

effective exercise experience that sparks an ongoing interest in active play, exercise, and sports participation. CE exam available! For certified professionals, a companion continuing education exam can be completed after reading this book. Essentials of Youth Fitness Online CE Exam may be purchased separately or as part of the Essentials of Youth Fitness With CE Exam package, which includes both the book and the exam. The sixth edition of the foundational reference on cognitive neuroscience, with entirely new material that covers the latest research, experimental approaches, and measurement methodologies. Each edition of this classic reference has proved to be a benchmark in the developing field of cognitive neuroscience. The sixth edition of The Cognitive Neurosciences continues to chart new directions in the study of the biological underpinnings of complex cognition—the relationship between the structural and physiological mechanisms of the nervous system and the psychological reality of the mind. It offers entirely new material, reflecting recent advances in the field, covering the latest research, experimental approaches, and measurement methodologies. This sixth edition treats such foundational topics as memory, attention, and language, as well as other areas, including computational models of cognition, reward and decision making, social neuroscience, scientific ethics, and methods advances. Over the

last twenty-five years, the cognitive neurosciences have seen the development of sophisticated tools and methods, including computational approaches that generate enormous data sets. This volume deploys these exciting new instruments but also emphasizes the value of theory, behavior, observation, and other time-tested scientific habits. Section editors Sarah-Jayne Blakemore and Ulman Lindenberger, Kalanit Grill-Spector and Maria Chait, Tomás Ryan and Charan Ranganath, Sabine Kastner and Steven Luck, Stanislas Dehaene and Josh McDermott, Rich Ivry and John Krakauer, Daphna Shohamy and Wolfram Schultz, Danielle Bassett and Nikolaus Kriegeskorte, Marina Bedny and Alfonso Caramazza, Liina Pylkkänen and Karen Emmorey, Mauricio Delgado and Elizabeth Phelps, Anjan Chatterjee and Adina Roskies

The popularity of high-intensity interval training (HIIT), which consists primarily of repeated bursts of high-intensity exercise, continues to soar because its effectiveness and efficiency have been proven in use by both elite athletes and general fitness enthusiasts. Surprisingly, few resources have attempted to explain both the science behind the HIIT movement and its sport-specific application to athlete training. That's why Science and Application of High-Intensity Interval Training is a must-have resource for sport coaches, strength and conditioning professionals, personal trainers, and

exercise physiologists, as well as for researchers and sport scientists who study high-intensity interval training.

Aimed at strength and conditioning specialists, health and fitness professionals, personal trainers and exercise scientists, this research-based book details the physiological and biomechanical aspects of designing resistance training programmes for improved power, strength and perfomance in athletes.

Judo is a dynamic Olympic sport that requires a wide range of physical attributes and skills. It is the second largest participation sport in the world after football, and estimates suggest there are 20 million judoka (practitioners of judo) just in Europe. However strength and conditioning are prerequisites for an aspiring judoka, and this book is essential reading for judo coaches, strength and conditioning professionals, and judoka alike. Topics covered include: needs analysis of judo; building strength and delivering power; co-ordination, speed and agility; the importance of nutrition; and finally, injury prevention and maximizing recovery. Essential reading for judo practitioners, judo coaches and strength & conditioning professionals and extensively illustrated with 139 colour photographs and diagrams.

Nutrition for Sport, Exercise, and Health includes applied content and research-based guidelines to

help students distinguish between nutrition recommendations backed by science and the plethora of misinformation available in the field. This comprehensive resource blends nutrition and exercise science with practical information to provide a clear understanding of how nutrition affects sports, exercise, and overall health. Nutrition for Sport, Exercise, and Health covers the basics of nutrition, including the functions of and daily allowances for carbohydrate, fat, and protein, as well as micronutrient recommendations; the importance of hydration and electrolyte balance; nutrition in health and disease prevention; population-based nutrition considerations for training and sports; and practical information on measuring and altering body composition. The accessible presentation of material keeps students from getting too bogged down in research, and the text offers real-world applications. Students will also discover career opportunities available to them, including qualifications and job responsibilities for each position. The full-color text includes more than 70 photos and more than 140 illustrations alongside digestible, engaging writing. Concepts are presented in a user-friendly manner, and each chapter includes a number of features that enhance understanding: • Chapter objectives provide a roadmap to ease students into upcoming content. • Key terms help students focus on important vocabulary. The key terms are identified at

the beginning of the chapter, appear in boldface within the chapter, and are included within the glossary, where they are defined. • Putting It Into Perspective sidebars contain compact vignettes that help college students relate to the content and apply the concepts to their own lives. • Do You Know? sidebars are short callouts that provide key insights and easy takeaways for students. • Review questions help students identify areas they may need to revisit as well as reinforce key concepts. Content is organized in a logical sequence, with each chapter building upon the information previously presented. In part I, the reader is provided with an overview of the role nutrition plays in overall well-being throughout a person's life. Part II focuses on each macronutrient and its role in health and disease, as well as dietary recommendations that support health and an active lifestyle. The role of micronutrients in health and performance is covered in part III. Part IV provides information on the application of nutrition to sport, exercise, and health. Instructors will find a full suite of ancillaries that will be helpful in their teaching. The instructor guide and presentation package plus image bank will help in preparing for class, while the test package and chapter quizzes will help assess student learning. Students and professionals alike will benefit from the broad coverage found in Nutrition for Sport, Exercise, and Health. Armed with accessible,

research-based application, readers will have the tools they need to improve athletic performance, exercise outcomes, and general well-being.

This book constitutes the refereed proceedings of the 17th International Conference on Artificial Intelligence in Education, AIED 2015, held in Madrid, Spain, in June 2015. The 50 revised full papers presented together with 3 keynotes, 79 poster presentations, 13 doctoral consortium papers, 16 workshop abstracts, and 8 interactive event papers were carefully reviewed and selected from numerous submissions. The conference provides opportunities for the cross-fertilization of approaches, techniques and ideas from the many fields that comprise AIED, including computer science, cognitive and learning sciences, education, game design, psychology, sociology, linguistics, as well as many domain-specific areas.

This two-volume set LNCS 12792 and 12793 constitutes the refereed proceedings of the Third International Conference on Adaptive Instructional Systems, AIS 2021, held as part of the 23rd International Conference, HCI International 2021, which took place in July 2021. Due to COVID-19 pandemic the conference was held virtually. The total of 1276 papers and 241 posters included in the 39 HCII 2021 proceedings volumes was carefully reviewed and selected from 5222 submissions. The papers of AIS 2021, Part II, focus on Learner

Modelling and State Assessment in AIS.
Drawing on the latest scientific research, this handbook introduces the essentials of sport-specific strength and conditioning programme design for over 30 different sports. Enhanced by extensive illustrations and contributions from more than 70 world-leading experts, its chapters present evidence-based best practice for sports including football, rugby, tennis, hockey, basketball, rowing, boxing, golf, swimming, cycling and weightlifting, as well as a variety of wheelchair sports. Every chapter introduces the fundamental requirements of a particular sport – such as the physiological and biomechanical demands on the athlete – and describes a sport-specific fitness testing battery and exercise programme. Additional chapters cover the adaptation of programme design for special populations, including female athletes, young athletes and athletes with a disability. Drawing on the experiences of Olympic and Paralympic coaches and trainers, it offers original insights and practical advice from practitioners working at the highest level. Innovative, comprehensive and truly international in scope, the Routledge Handbook of Strength and Conditioning is vital reading for all strength and conditioning students and an invaluable reference for strength and conditioning coaches and trainers.
The cerebellum is an intriguing component of the brain. In humans it occupies only 10% of the brain volume, yet has approximately 69 billion neurons; that is 80% of the nerve cells in the brain. The cerebellum first arose in jawed vertebrates such as sharks, and early vertebrates also have an additional cerebellum-like structure in the hindbrain. Shark cerebellum-like structures function as adaptive filters to discriminate 'self' from 'other' in sensory inputs. It is likely that the true cerebellum evolved from these cerebellum-like

precursors, and that their adaptive filter functionality was adopted for motor control; paving the way for the athleticism and movement finesse that we see in swimming, running, climbing and flying vertebrates. This book uses an evolutionary perspective to open up the exciting body of work that is cerebellar research to a wide audience. Understanding the brain is of interest to many people, from many different backgrounds, and for many different reasons. Therefore, understanding cerebellum is a significant step towards the wider challenge of understanding the brain. This book will be of interest to neuroscientists, neurologists and psychologists, in addition to computer scientists, and engineers concerned with machine/human interactions and robotics.

Concurrent Enterprising: Toward the Concurrent Enterprise in the Era of the Internet and Electronic Commerce presents the concurrent enterprise business model and concurrent enterprising approach, which is emerging as a crucial challenge for organizations in all geographical locations and economic sectors. To achieve this goal, this book deals with the main aspects of the merging context in which enterprises are doing business. This context is characterized by the fastest-spread information and communication technologies (ICT) that constitute the new infrastructure of the global marketplace. This book discusses a set of the most advanced enterprise paradigms created during the 1980s and 1990s, most of them supported by advanced research programs, especially in the worldwide manufacturing industry. The book discusses differences between these enterprise paradigms and presents Internet-related technologies as a main driver toward a new business model. It then examines less theoretical questions - among them, how to implement this new business model and how companies can move to the concurrent enterprise paradigm in creating a concurrent business environment. And it introduces a methodology for

enterprises willing to maintain or even improve their competitiveness in the global marketplace. The book has eight chapters. The first two concentrate on the advanced enterprise paradigms, and their advantages and limits for maintaining or improving competitiveness in the global marketplace. Chapter 3 studies, separately, the virtual enterprise and related approaches. Chapter 4 studies another fundamental ingredient of the new business model - concurrent engineering (CE). Chapter 5 summarizes these preceding approaches and establishes a foundation for building a concurrent enterprise. Chapter 6 presents specific business cases illustrating the advantages and limits of virtual enterprise applications and introduces electronic commerce and electronic documents. Chapter 7 presents concurrent enterprise as a new business model, and Chapter 8 synthesizes the concurrent enterprising process. Concurrent Enterprising: Toward the Concurrent Enterprise in the Era of the Internet and Electronic Commerce is a reference and a user's guide designed for business managers, IT managers, engineers, researchers, scientists, and other individuals interested in learning how to use a sustainable business model driven by the Internet and electronic commerce. The robotic mechanism and its controller make a complete system. As the robotic mechanism is reconfigured, the control system has to be adapted accordingly. The need for the reconfiguration usually arises from the changing functional requirements. This book will focus on the adaptive control of robotic manipulators to address the changed conditions. The aim of the book is to summarise and introduce the state-of-the-art technologies in the field of adaptive control of robotic manipulators in order to improve the methodologies on the adaptive control of robotic manipulators. Advances made in the past decades are described in the book, including adaptive control theories and design, and application of

adaptive control to robotic manipulators.

Distance learning technologies have reshaped the diffusion of communication within the educational system. Within this expanding field, the possibilities for an interactive, cross-boundary education are endless. Strategic Applications of Distance Learning Technologies provides tactical uses of distance education technologies to assist instructors and researchers in their quest to provide a progressive, alternative approach to traditional education techniques. This collection of advanced research incorporates global challenges and opportunities of technology integration while outlining strategies for distance learning within developing countries. This book aims to provide and challenge coaches and rowers with best practice, advice, principles and training programmes to improve their rowing experience and performance. Regardless of whether you are looking to improve on-water performance, set an indoor rowing personal best or enhance the quality of your training you will find something of value within these pages. Topics covered include: training and technique; egrometer training; specific rowing conditioning; strength training; monitoring and assessing land training; mobility and flexibility; weighlifting technique; trunk training; nutrition and mental skills. 'With the approaches detailed in this book, were were able to break records on the water and on the rowing machine and face our Olympic final feeling totally prepared and genuinely excited about the challenge. Regardless of your starting point, the guidance in this book will help you take the next steps towards your own goal, and to making your own magic. Good luck!' Dr Katherine Grainger CBE and Anna Watkins MBE. Aimed at coaches and rowers at all levels of the sport. Fully illustrated with 90 colour photographs.

"This book examines modern artificial intelligence to display how it may be applied to computer games. It spans the divide

that exists between the academic research community working with advanced artificial intelligence and the games programming community which must create and release new and interesting games, creating an invaluable collection supporting both technological research and the gaming industry"--Provided by publisher.

Science and Application of High-Intensity Interval TrainingHuman Kinetics

This book provides an extensive guide for exercise and health professionals, students, scientists, sport coaches, athletes of various sports and those with a general interest in concurrent aerobic and strength training. Following a brief historical overview of the past decades of research on concurrent training, in section 1 the epigenetic as well as physiological and neuromuscular differences of aerobic and strength training are discussed. Thereafter, section 2 aims at providing an up-to-date analysis of existing explanations for the interference phenomenon, while in section 3 the training-methodological difficulties of combined aerobic and strength training are elucidated. In section 4 and 5, the theoretical considerations reviewed in previous sections will then be practically applied to specific populations, ranging from children and elderly to athletes of various sports. Concurrent Aerobic and Strength Training: Scientific Basics and Practical Applications is a novel book on one of the "hot topics" of exercise training. The Editors' highest priority is to make this book an easily understandable and at the same time

scientifically supported guide for the daily practice. Organization design is a key feature of management theory and practice. It addresses the challenges of constructing and maintaining effective organizations. Essential to organizational design is the assumption that it can improve organizations. Faced with the ever-accelerating pace of technological change and the restructuring of markets, many firms have been questioning their own organization. This book is the third to emerge from a series of workshops on organization design, featuring new empirical research and theoretical insights. The chapters are organized around four central themes: 1) Towards New Organizational Forms, 2) Dynamics of Adaptation and Change, 3) Theoretical and Practical issues, 4) Fit and Performance. Collectively, the chapters reflect the state of the art of OD as well as provide a further step towards the evolution of this important field of research.

The Frontiers Research Topic entitled "Neuromuscular Training and Adaptations in Youth Athletes" contains one editorial and 22 articles in the form of original work, narrative and systematic reviews and meta-analyses. From a performance and health-related standpoint, neuromuscular training stimulates young athletes' physical development and it builds a strong foundation for later success as an elite athlete. The 22 articles provide current scientific knowledge on the

effectiveness of neuromuscular training in young athletes.

This book constitutes the thoroughly refereed post-proceedings of the First International Workshop on Learning and Adaption in Multi-Agent Systems, LAMAS 2005, held in The Netherlands, in July 2005, as an associated event of AAMAS 2005. The 13 revised papers presented together with two invited talks were carefully reviewed and selected from the lectures given at the workshop.

Written by Brad Schoenfeld, PhD, a leading authority on muscle hypertrophy, Science and Development of Muscle Hypertrophy provides strength and conditioning professionals, researchers, and instructors with a definitive resource for information regarding muscle hypertrophy.

Deaf People and Society incorporates multiple perspectives related to the topics of psychology, education, and sociology, including the viewpoints of deaf adults themselves. In doing so, it considers the implications of what it means to be deaf or hard of hearing and how deaf adults' lives are impacted by decisions that professionals make, whether in the clinic, the school, or when working with family. This second edition has been thoroughly revised and offers current perspectives on the following topics: Etiologies of deafness and the identification process The role of auditory access Cognition, language, communication, and literacy Bilingual,

bilingual/bimodal, and monolingual approaches to language learning Educational, legal, and placement aspects Childhood psychological issues Psychological and sociological viewpoints of deaf adults The criminal justice system and deaf people Psychodynamics of interaction between deaf and hearing people Each chapter begins with a set of objectives and concludes with suggested readings for further research. This edition contains 10 new and original case studies, including ones on hearing children of deaf adults, sudden hearing loss, a young deaf adult with mental illness, and more. Written by a seasoned deaf/hearing bilingual team, this unique text continues to be the go-to resource for students and future professionals interested in working with deaf and hard-of-hearing persons.

This volume constitutes the proceedings of the 10th International Conference on Simulated Evolution and Learning, SEAL 2012, held in Dunedin, New Zealand, in December 2014. The 42 full papers and 29 short papers presented were carefully reviewed and selected from 109 submissions. The papers are organized in topical sections on evolutionary optimization; evolutionary multi-objective optimization; evolutionary machine learning; theoretical developments; evolutionary feature reduction; evolutionary scheduling and combinatorial optimization; real world applications and evolutionary image analysis.