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Proceedings of the 2nd International Colloquium on Sports Science, Exercise, Engineering and Technology 2015 (ICoSSEET 2015) Springer *The proceeding is a collection of research papers presented at the 2nd International Colloquium on Sports Science, Exercise, Engineering and Technology (ICoSSEET2015), a conference dedicated to address the challenges in the areas of sports science, exercise, sports engineering and technology including other areas of sports, thereby presenting a consolidated view to the interested researchers in the aforesaid fields. The goal of this conference was to bring together researchers and practitioners from academia and industry to focus on the scope of the conference and establishing new collaborations in these areas. The topics of interest are in mainly (1) Sports and Exercise Science (2) Sports Engineering and Technology Application (3) Sports Industry and Management.* **Routledge Handbook of Sports Technology and Engineering** Routledge *From carbon fibre racing bikes to 'sharkskin' swimsuits, the application of cutting-edge design, technology and engineering has proved to be a vital ingredient in enhanced sports performance. This is the first book to offer a comprehensive survey of contemporary sports technology and engineering, providing a complete overview of academic, professional and industrial knowledge and technique. The book is divided into eight sections covering the following topics : Sustainable Sports Engineering Instrumentation Technology Summer Mobility Sports Winter Mobility Sports Apparel and Protection Equipment Sports Implements (racquets, clubs, bats, sticks) Sports Balls Sports Surfaces and Facilities Written by an international team of leading experts from industry, academia and commercial research institutes, the emphasis throughout the book is on innovation, the relationship between business and science, and the improvement of sports performance. This is an essential reference for anybody working in sports technology, sports product design, sports engineering, biomechanics, ergonomics, sports business or applied sport science.* **Proprioception in Orthopaedics, Sports Medicine and Rehabilitation** Springer *This book is a comprehensive guide to proprioceptive rehabilitation after orthopaedic and sports surgery. In addition, it equips readers with a thorough understanding of the neurophysiology and assessment of proprioception and clearly explains the relationships between surgical procedures, injuries, and anatomy and proprioception. Proprioception is still an unclear topic for most clinicians and scientists, and this is the first book specifically on proprioception in the context of orthopaedics and sports injuries, surgery, and rehabilitation. After an opening section describing key basic knowledge, individual chapters discuss proprioception after injuries and surgery to different parts of the body and explain the role of proprioceptive training in optimal rehabilitation. Among other topics addressed are proprioception after soft tissue regenerative treatment and the relation between osteoarthritis and proprioception. The book includes numerous descriptions of exercises, photographs, and tables documenting rehabilitation strategies. It will be of value for all students, clinicians, and academicians with an interest in the subject.* **Practical Sports Coaching** Routledge *Practical Sports Coaching is a thorough and engaging guide for all sports coaching students and practitioners. Drawing on real-life case studies and examples, the book is designed to develop practical coaching skills and provides readers with the methods and tools they need to become an expert coach. Structured around all facets of the coaching process, the text comprehensively covers topics such as: preparation for coaching mentoring the philosophy of coaching direct intervention coaching methods the use of modern technology. The book's practical approach allows the reader to consider common challenges faced by coaches, suggesting solutions to performance concerns and preparing students for the realities of professional sports coaching. A companion website containing presentation slides and useful weblinks makes the book a complete resource for students and lecturers alike. Practical Sports Coaching helps to bridge the gap between theory and practical coaching skills, and is an essential text for coaching students looking to deepen their understanding of sports coaching and experienced coaches developing their own practical skills.* **2020 International Conference on**

Applications and Techniques in Cyber Intelligence Applications and Techniques in Cyber Intelligence (ATCI 2020) Springer Nature This book presents innovative ideas, cutting-edge findings, and novel techniques, methods, and applications in a broad range of cybersecurity and cyberthreat intelligence areas. As our society becomes smarter, there is a corresponding need to secure our cyberfuture. The book describes approaches and findings that are of interest to business professionals and governments seeking to secure our data and underpin infrastructures, as well as to individual users. **NSCA's Essentials of Sport Science** Human Kinetics Publishers NSCA's Essentials of Sport Science provides the most contemporary and comprehensive overview of the field of sport science and the role of the sport scientist. It is a primary preparation resource for the Certified Performance and Sport Scientist (CPSS) certification exam. **The Engineering Approach to Winter Sports** Springer The Engineering Approach to Winter Sports presents the state-of-the-art research in the field of winter sports in a harmonized and comprehensive way for a diverse audience of engineers, equipment and facilities designers, and materials scientists. The book examines the physics and chemistry of snow and ice with particular focus on the interaction (friction) between sports equipment and snow/ice, how it is influenced by environmental factors, such as temperature and pressure, as well as by contaminants and how it can be modified through the use of ski waxes or the microtextures of blades or ski soles. The authors also cover, in turn, the different disciplines in winter sports: skiing (both alpine and cross country), skating and jumping, bob sledding and skeleton, hockey and curling, with attention given to both equipment design and on the simulation of gesture and track optimization. **Intelligence in the Era of Big Data 4th International Conference on Soft Computing, Intelligent Systems, and Information Technology, ICSIT 2015, Bali, Indonesia, March 11-14, 2015. Proceedings** Springer This book constitutes the refereed proceedings of the 4th International Conference on Soft Computing, Intelligent Systems, and Information Technology, ICSIT 2015, held in Bali, Indonesia, in March 2015. The 34 revised full papers presented together with 19 short papers, one keynote and 2 invited talks were carefully reviewed and selected from 92 submissions. The papers cover a wide range of topics related to intelligence in the era of Big Data, such as fuzzy logic and control system; genetic algorithm and heuristic approaches; artificial intelligence and machine learning; similarity-based models; classification and clustering techniques; intelligent data processing; feature extraction; image recognition; visualization techniques; intelligent network; cloud and parallel computing; strategic planning; intelligent applications; and intelligent systems for enterprise, government and society. **The Ethics of Sport Essential Readings** Oxford University Press Sports are more than just "games". They can unite countries, start wars, and revolutionize views on race, class, and gender. Through works from philosophy, sociology, medicine, and law, this collection explores intersections of sports and ethics, and identifies the immense role of sports in shaping and reflecting social values **Image Analysis and Processing - ICIAP 2019 20th International Conference, Trento, Italy, September 9-13, 2019, Proceedings, Part I** Springer Nature The two-volume set LNCS 11751 and 11752 constitutes the refereed proceedings of the 20th International Conference on Image Analysis and Processing, ICIAP 2019, held in Trento, Italy, in September 2019. The 117 papers presented were carefully reviewed and selected from 207 submissions. The papers cover both classic and the most recent trends in image processing, computer vision, and pattern recognition, addressing both theoretical and applicative aspects. They are organized in the following topical sections: Video Analysis and Understanding; Pattern Recognition and Machine Learning; Deep Learning; Multiview Geometry and 3D Computer Vision; Image Analysis, Detection and Recognition; Multimedia; Biomedical and Assistive Technology; Digital Forensics; Image processing for Cultural Heritage. **Snow Sports Trauma and Safety Conference Proceedings of the International Society for Skiing Safety: 21st Volume** Springer This book is open access under a CC BY-NC 2.5 license. This book covers the latest in snow sport epidemiology, snow sport injuries and treatment, and biomechanical/mechanical engineering related to snow sports injuries (mechanisms of injury, injury prevention by equipment design, injury prevention by design of resort features, and more). It brings together a collection of papers from the International Congress on Ski Trauma and Safety (the biennial meeting of the International Society for Skiing Safety) and presents the latest research on the effectiveness of winter sports equipment, the behavior of winter sports participants, and the epidemiology and biomechanics of winter sports injuries. This is an ideal book for researchers and professionals working in the field of sports medicine and safety. This book also: Covers the latest body of literature dealing with safety in winter sports as well as the prevention and treatment of injuries sustained by participants in these activities Broadens readers' understanding of snow sport injury prevention research Illustrates ways safety standards for snow sports can be improved based on evidence-based research. **Macrocognition: The Science and Engineering of Sociotechnical Work Systems** Frontiers Media SA **Bio-orthopaedics A New Approach** Springer This book introduces the exciting field of orthobiology, which will usher in a new array of therapeutic approaches that stimulate the body's natural resources to regenerate musculoskeletal tissues damaged by trauma or disease. The book addresses a range of key topics and discusses emerging approaches that promise to offer effective alternatives to traditional treatments for injuries to bone, cartilage, muscles, ligaments, and tendons. It explains in detail how a variety of innovative products, including biomaterials, growth factors, and autogenous cells, together provide the basis for the regeneration of these musculoskeletal structures and how recent scientific progress has created unique opportunities to address pathological situations that until recently have been treated with unsatisfactory results. The authors are experts from across the world who come together to provide a truly global overview. The book is published in collaboration with ISAKOS. It will be invaluable for all with an interest in this area of medicine, which has already attained huge popularity in Orthopaedics and Sports Medicine and has also attracted the attention of the lay public. **Application of Intelligent Systems in Multi-modal Information Analytics Proceedings of the 2020 International Conference on Multi-modal Information Analytics (MMIA2020), Volume 1** Springer Nature This book presents the proceedings of the 2020 International Conference on Intelligent Systems Applications in Multi-modal Information Analytics, held in Changzhou, China, on June 18-19, 2020. It provides comprehensive coverage of the latest advances and trends in information technology, science and engineering. It addresses a number of broad themes, including data mining, multi-modal informatics, agent-based and multi-agent systems for health and education informatics, which inspire the development of intelligent information technologies. The contributions cover a wide range of topics such as AI applications and innovations in health and education informatics; data and knowledge management; multi-modal application management; and web/social media mining for multi-modal informatics. Outlining promising future research directions, the book is a valuable resource for students, researchers and professionals, and a useful reference guide for newcomers to the field. **Sensors**

and Wearable Technologies in Sport Technologies, Trends and Approaches for Implementation Springer This book explores emerging trends in wearable sensors for sport and highlights the developments taking place. Drawing on the literature both the approaches and principals for the use of sensors in sport are outlined, and together with references to key works the reader finds this useful in considering such endeavours. The development of wearable technologies is fast paced and accompanying that is an exponential growth in the use and development of computing resources, thus while the review is comprehensive on content not all works can be included and given publication times will inevitably be somewhat dated. The illumination through trends, examples and principles are an aid for anyone considering the use of sensors and wearables in sports. **Machine Learning, Image Processing, Network Security and Data Sciences Second International Conference, MIND 2020, Silchar, India, July 30 - 31, 2020, Proceedings, Part II** Springer Nature This two-volume set (CCIS 1240-1241) constitutes the refereed proceedings of the Second International Conference on Machine Learning, Image Processing, Network Security and Data Sciences, MIND 2020, held in Silchar, India. Due to the COVID-19 pandemic the conference has been postponed to July 2020. The 79 full papers and 4 short papers were thoroughly reviewed and selected from 219 submissions. The papers are organized according to the following topical sections: data science and big data; image processing and computer vision; machine learning and computational intelligence; network and cyber security. **Intelligent Computing and Applications Proceedings of ICICA 2019** Springer Nature This book presents the peer-reviewed proceedings of the 5th International Conference on Intelligent Computing and Applications (ICICA 2019), held in Ghaziabad, India, on December 6–8, 2019. The contributions reflect the latest research on advanced computational methodologies such as neural networks, fuzzy systems, evolutionary algorithms, hybrid intelligent systems, uncertain reasoning techniques, and other machine learning methods and their applications to decision-making and problem-solving in mobile and wireless communication networks. **Recent Advances in Information Systems and Technologies Volume 2** Springer This book presents a selection of papers from the 2017 World Conference on Information Systems and Technologies (WorldCIST'17), held between the 11st and 13th of April 2017 at Porto Santo Island, Madeira, Portugal. WorldCIST is a global forum for researchers and practitioners to present and discuss recent results and innovations, current trends, professional experiences and challenges involved in modern Information Systems and Technologies research, together with technological developments and applications. The main topics covered are: Information and Knowledge Management; Organizational Models and Information Systems; Software and Systems Modeling; Software Systems, Architectures, Applications and Tools; Multimedia Systems and Applications; Computer Networks, Mobility and Pervasive Systems; Intelligent and Decision Support Systems; Big Data Analytics and Applications; Human-Computer Interaction; Ethics, Computers & Security; Health Informatics; Information Technologies in Education; and Information Technologies in Radiocommunications. **Computer Vision in Sports** Springer The first book of its kind devoted to this topic, this comprehensive text/reference presents state-of-the-art research and reviews current challenges in the application of computer vision to problems in sports. Opening with a detailed introduction to the use of computer vision across the entire life-cycle of a sports event, the text then progresses to examine cutting-edge techniques for tracking the ball, obtaining the whereabouts and pose of the players, and identifying the sport being played from video footage. The work concludes by investigating a selection of systems for the automatic analysis and classification of sports play. The insights provided by this pioneering collection will be of great interest to researchers and practitioners involved in computer vision, sports analysis and media production. **The Brain on Youth Sports The Science, the Myths, and the Future** Rowman & Littlefield This book will dispel myths about head impacts in youth sports, potential consequences of these collisions, and the changes sports organizations have made to make these sports "safer than ever." It will empower parents and athletes to make an informed decision on sports participation and provide recommendations on how to make these sports safer. **Tennis Medicine A Complete Guide to Evaluation, Treatment, and Rehabilitation** Springer This book will serve as a key resource for all clinicians working in orthopedics, sports medicine, and rehabilitation for the sport of tennis. It provides clinically useful information on evaluation and treatment of the tennis player, covering the entire body and both general medical and orthopedic musculoskeletal topics. Individual sections focus on tennis-related injuries to the shoulder, the elbow, wrist, and hand, the lower extremities, and the core/spine, explaining treatment and rehabilitation approaches in detail. Furthermore, sufficient sport science information is presented to provide the clinical reader with extensive knowledge of tennis biomechanics and the physiological aspects of training and rehabilitation. Medical issues in tennis players, such as nutrition and hydration, are also discussed, and a closing section focuses on other key topics, including movement dysfunction, periodization, core training, and strength and conditioning specifics. The expansive list of worldwide contributors and experts coupled with the comprehensive and far-reaching chapter provision make this the highest-level tennis medicine book ever published. **Extreme Sports Medicine** Springer This technically oriented book on medicine as applied to extreme sports offers broad coverage of the field extending well beyond the usual focus on major trauma and acute injuries. In addition to the injuries and diseases associated with individual extreme sports, this book also addresses the topics of psychology, dermatology, ophthalmology, infectious diseases, physiology, nutrition, training, injury prevention strategies, rehabilitation, doping, treatment in hostile environments, and legal aspects. Innovative and less frequently considered topics are also discussed, such as recent advances in protective equipment and materials, the effects of exposure on whole-body vibration, and cold exposure risk management. More than 60 of the most authoritative experts from across the world have contributed to this book, drawing on their personal experiences and including practical examples whenever relevant. Both subject matter and illustrations have been selected with the utmost care, the latter including photographs of world-class athletes. The book's multidisciplinary approach to the subject ensures that it will be relevant to a wide readership. **21st Century Sports How Technologies Will Change Sports in the Digital Age** Springer Nature This book outlines the effects that technology-induced change will have on sport within the next five to ten years, and provides food for thought concerning what lies further ahead. Presented as a collection of essays, the authors are leading academics from renowned institutions such as Massachusetts Institute of Technology, Queensland University of Technology, and the University of Cambridge, and practitioners with extensive technological expertise. In their essays, the authors examine the impacts of emerging technologies like artificial intelligence, the Internet of Things, and robotics on sports and assess how they will change sport itself, consumer behavior, and existing business models. The book will help athletes, entrepreneurs, and innovators working in the sports industry to spot trendsetting technologies, gain deeper insights into how they will affect their activities,

and identify the most effective responses to stay ahead of the competition both on and off the pitch. **Engineering Entrepreneurship from Idea to Business Plan A Guide for Innovative Engineers and Scientists** [Cambridge University Press](#) This book is for engineers and scientists who want to create new products that are income-producing for themselves and for investors. Learn how to sharpen your idea and turn it into a product, to conduct patent searches, complete a provisional patent application, and prepare a business model. **Modeling, Simulation and Optimization Proceedings of CoMSO 2021** [Springer Nature](#) This book includes selected peer-reviewed papers presented at the International Conference on Modeling, Simulation and Optimization (CoMSO 2021), organized by National Institute of Technology, Silchar, Assam, India, during December 16–18, 2021. The book covers topics of modeling, simulation and optimization, including computational modeling and simulation, system modeling and simulation, device/VLSI modeling and simulation, control theory and applications, modeling and simulation of energy systems and optimization. The book disseminates various models of diverse systems and includes solutions of emerging challenges of diverse scientific fields. **Cognitive Systems and Signal Processing Third International Conference, ICCSIP 2016, Beijing, China, November 19–23, 2016, Revised Selected Papers** [Springer](#) This book constitutes the refereed proceedings of the Third International Conference on Cognitive Systems and Signal Processing, ICCSIP2016, held in Beijing, China, in December 2016. The 59 revised full papers presented were carefully reviewed and selected from 171 submissions. The papers are organized in topical sections on Control and Decision; Image and Video; Machine Learning; Robotics; Cognitive System; Cognitive Signal Processing. **Cartilage Restoration Practical Clinical Applications** [Springer](#) Now in a revised and expanded second edition, this practical text utilizes the most current evidence and knowledge of articular cartilage as the basis for clinical interventions for cartilage repair and restoration, combining an overview of clinical research and methodologies with clinical cases to help guide the orthopedic treatment and care of patients presenting with cartilage issues. Carefully updated chapters discuss the state-of-the-art in cartilage anatomy, defects and imaging, current tibiofemoral and patellofemoral surgical options, debridement and marrow stimulation, osteochondral autografts and allografts, osteotomies, cell therapy, and meniscal transplantation. New chapters explore new surgical treatment strategies and revision for failed cartilage repair, case vignettes presenting real-life treatment decisions and outcomes, and rehabilitation protocols following cartilage repair. Written and edited by experts in the field and bringing the most recent literature and research to bear, Cartilage Restoration remains a valuable resource on joint preservation for orthopedic surgeons, residents, and fellows, sports medicine specialists and rheumatologists. **Sports Materials** [MDPI](#) Advances in materials are crucial to the development of sports equipment, from tennis rackets to skis to running shoes. Materials-driven improvements in equipment have helped athletes perform better, while enhancing safety and making sport more accessible and enjoyable. This book brings together a collection of 10 papers on the topic of sports materials, as published in a Special Issue of Applied Sciences. The papers within this book cover a range of sports, including golf, tennis, table tennis and baseball. State-of-the-art engineering techniques, such as finite element modelling, impact testing and full-field strain measurement, are applied to help further our understanding of sports equipment mechanics and the role of materials, with a view to improving performance, enhancing safety and facilitating informed regulatory decision making. The book also includes papers that describe emerging and novel materials, including auxetic materials with their negative Poisson's ratio (fattening when stretched) and knits made of bamboo charcoal. This collection of papers should serve as a useful resource for sports engineers working in both academia and industry, as well as engineering students who are interested in sports equipment and materials. **Strategic Sport Communication** [Human Kinetics](#) Strategic Sport Communication, Second Edition, explores the sport industry's exciting and multifaceted segment of sport communication. With communication theory, sport literature, and insight from the industry's leading professionals, the text presents a standard framework that introduces readers to the many ways in which individuals, media outlets, and sport organizations work to create, disseminate, and manage messages to their constituents. The team of international authors has drawn on its extensive practical, academic, and leadership experiences to update and revitalize this second edition of Strategic Sport Communication. Using the industry-defining standard of the Strategic Sport Communication Model (SSCM), the text explores sport communication in depth and then frames the three major components of the field: personal and organizational communication, sport media, and sport communication services and support. Readers will discover how each aspect of this segment of the sport industry is integral to the management, marketing, and operational goals at all levels of sport organizations. The second edition includes the following enhancements: • A new, expanded chapter titled Integrated Marketing Communication in Sport allows students to explore modern marketing strategy. • Substantial updates and new information on multiple social media platforms throughout the book elucidate the latest trends. • "Sport Communication at Work" sidebars and "Profile of a Sport Communicator" features apply topics and theoretical concepts to real-world situations. • Key terms, learning objectives, and chapter wrap-ups with review questions, discussion questions, and individual exercises keep readers engaged and focused. • An expanded ancillary package provides tools for instructors to use in course preparation and presentation. The content is complemented by photos throughout and organized in an easy-to-read style. Part I of the book introduces sport communication by defining the scope of study, examining roles and functions of sport communication professionals, and looking at the history and growth of the field. Part II dives into the SSCM, which provides a macro-view of the three main components of communication in sport. This section also addresses digital and mobile communications, public relations and crisis communication, and sport research. Part III addresses sociocultural issues and legal aspects of sport communication, including culture, gender, sex, race, ethnicity, and politics. Throughout the text, individual exercises, group activities, review questions, and discussion questions promote comprehension for a variety of learning styles. With Strategic Sport Communication, Second Edition, readers will be introduced to the vast and varied field of sport communication. The framework of the SSCM prepares readers with foundational and theoretical knowledge so they are able to understand the workings of, and ultimately contribute to, the rapidly growing field of sport communication. **Advances in Computer Science for Engineering and Education II** [Springer](#) This book gathers high-quality, peer-reviewed research papers presented at the Second International Conference on Computer Science, Engineering and Education Applications (ICCSEEA2019), held in Kiev, Ukraine on 26–27 January 2019, and jointly organized by the National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute" and the International Research Association of Modern Education and Computer Science. The papers discuss state-of-the-art topics and advances in computer science; neural networks; pattern recognition; engineering techniques; genetic coding systems; deep learning and

its medical applications; and knowledge representation and its applications in education. Given its scope, the book offers an excellent resource for researchers, engineers, management practitioners, and graduate and undergraduate students interested in computer science and its applications in engineering and education. **Information Systems Architecture and Technology: Proceedings of 38th International Conference on Information Systems Architecture and Technology - ISAT 2017 Part II** Springer This three-volume set of books presents advances in the development of concepts and techniques in the area of new technologies and contemporary information system architectures. It guides readers through solving specific research and analytical problems to obtain useful knowledge and business value from the data. Each chapter provides an analysis of a specific technical problem, followed by the numerical analysis, simulation and implementation of the solution to the problem. The books constitute the refereed proceedings of the 2017 38th International Conference "Information Systems Architecture and Technology," or ISAT 2017, held on September 17-19, 2017 in Szklarska Poręba, Poland. The conference was organized by the Computer Science and Management Systems Departments, Faculty of Computer Science and Management, Wrocław University of Technology, Poland. The papers have been organized into topical parts: Part I— includes discourses on topics including, but not limited to, Artificial Intelligence Methods, Knowledge Discovery and Data Mining, Big Data, Knowledge Discovery and Data Mining, Knowledge Based Management, Internet of Things, Cloud Computing and High Performance Computing, Distributed Computer Systems, Content Delivery Networks, and Service Oriented Computing. Part II—addresses topics including, but not limited to, System Modelling for Control, Recognition and Decision Support, Mathematical Modelling in Computer System Design, Service Oriented Systems and Cloud Computing and Complex Process Modeling. Part III—deals with topics including, but not limited to, Modeling of Manufacturing Processes, Modeling an Investment Decision Process, Management of Innovation, Management of Organization. **Interpersonal Coordination and Performance in Social Systems** Routledge Interpersonal coordination is an important feature of all social systems. From everyday activities to playing sport and participating in the performing arts, human behaviour is constrained by the need to continually interact with others. This book examines how interpersonal coordination tendencies in social systems emerge, across a range of contexts and at different scales, with the aim of helping practitioners to understand collective behaviours and create learning environments to improve performance. Showcasing the latest research from scientists and academics, this collection of studies examines how and why interpersonal coordination is crucial for success in sport and the performing arts. It explains the complex science of interpersonal coordination in relation to a variety of activities including competitive team sports, outdoor sports, racket sports, and martial arts, as well as dance. Divided into four sections, this book offers insight into: the nature, history and key concepts of interpersonal coordination factors that influence interpersonal coordination within social systems interpersonal coordination in competitive and cooperative performance contexts methods, tools and devices for improving performance through interpersonal coordination. This book will provide fascinating insights for students, researchers and educators interested in movement science, performance analysis, sport science and psychology, as well as for those working in the performing arts. **Human Centered Computing Third International Conference, HCC 2017, Kazan, Russia, August 7-9, 2017, Revised Selected Papers** Springer This book constitutes revised selected papers from the thoroughly refereed proceedings of the Third International Human Centered Computing Conference, HCC 2017, that consolidated and further develops the successful ICPCA/SWS conferences on Pervasive Computing and the Networked World, and which was held in Kazan, Russia, in August 2017. The 48 full and 20 short papers presented in this book together with 2 invited keynotes were carefully reviewed and selected from numerous submissions. This proceedings present recent advances in human machine interfaces, wireless and mobile network technologies, and data analytics, which make computer services truly human-centric. **Nanoengineering in Musculoskeletal Regeneration** Academic Press Regenerative medicine focuses on using stem cell biology to advance medical therapies for devastating disorders. Musculoskeletal degeneration and complications from injuries have become more prevalent as people live longer and increasingly participate in rigorous athletic and recreational activities. Additionally, defects in skeletal tissues may immobilize people and cause inflammation and pain. Musculoskeletal regeneration research provides solutions to repair, restore or replace skeletal elements and associated tissues that are affected by acute injury, chronic degeneration, genetic dysfunction and cancer-related defects. The goal of musculoskeletal regeneration medicine research is to improve quality of life and outcomes for people with musculoskeletal injury or degradation. Nanoengineering in Musculoskeletal Regeneration provides the reader an updated summary of therapeutic pipeline from biomedical discovery to clinical implementation, improving treatments for patients with conditions of the muscles, tendons, cartilage, meniscus and bone. This text presents novel, significant, and interdisciplinary theoretical and experimental results related to nanoscience and nanotechnology in the musculoskeletal regeneration. Content includes basic, translational, and clinical research addressing musculoskeletal repair and regeneration for the treatment of diseases and injuries of the skeleton and its associated tissues. **Platelet Rich Plasma in Orthopaedics and Sports Medicine** Springer This book provides a comprehensive, state-of-the art summary of platelet rich plasmas (PRPs) in the field of regenerative medicine. The book begins with an overview of the basic science behind PRP, describing the role of platelets and growth factors followed by the most important biological effects expected from the use of PRPs. Platelet Rich Plasma in Orthopaedics, Sports Medicine and Maxillofacial Surgery includes numerous contributions detailing the current use of PRPs in clinical practice. From the origins in oral and maxillofacial surgery, to the latest advances in orthopaedics and sports medicine including the use of Platelet Rich Growth Factors (PRGF) in muscle, bone, tendon, ligament and nerve injuries, this book provides a wide scope of the topic. The volume concludes with chapters from experts in biology, orthopaedics, oral and maxillofacial surgery, where the convergence of expertise is leading to unprecedented insights into how to minutely control the in vivo fate and function of PRGF. This book will provide a useful resource for physicians and researchers interested in learning more about this rapidly growing area of biomedical treatment. **Engineering Technology, Engineering Education and Engineering Management Proceedings of the 2014 International Conference on Engineering Technology, Engineering Education and Engineering Management (ETEEEM 2014), Hong Kong, 15-16 November 2014** CRC Press This volume contains papers presented at the International Conference on Engineering Technologies, Engineering Education and Engineering Management (ETEEEM 2014, Hong Kong, 15-16 November 2014). A wide variety of topics is included in the book: - Engineering Education - Education Engineering and Technology - Methods and Learning Mechanism **Advances in Parallel Computing Technologies and Applications** IOS Press Recent developments in parallel computing mean that the

use of machine learning techniques and intelligence to handle the huge volume of available data have brought the faster solutions offered by advanced technologies to various fields of application. This book presents the proceedings of the Virtual International Conference on Advances in Parallel Computing Technologies and Applications (ICAPTA 2021), hosted in Justice Basheer Ahmed Sayeed College for women (formerly "S.I.E.T Women's College"), Chennai, India, and held online as a virtual event on 15 and 16 April 2021. The aim of the conference was to provide a forum for sharing knowledge in various aspects of parallel computing in communications systems and networking, including cloud and virtualization solutions, management technologies, and vertical application areas. It also provided a platform for scientists, researchers, practitioners and academicians to present and discuss the most recent innovations and trends, as well as the concerns and practical challenges encountered in this field. Included here are 52 full length papers, selected from over 100 submissions based on the reviews and comments of subject experts. Topics covered include parallel computing in communication, machine learning intelligence for parallel computing and parallel computing for software services in theoretical and practical aspects. Providing an overview of the latest developments in the field, the book will be of interest to all those whose work involves the use of parallel computing technologies. **International Sport Management** *Human Kinetics* International Sport Management is the first comprehensive textbook devoted to the organization, governance, business activities, and cross-cultural context of modern sport on an international level. As the sport industry continues its global expansion, this textbook serves as an invaluable guide for readers as they build careers that require an international understanding of the relationships, influences, and responsibilities in sport management. Through a systematic presentation of topics and issues in international sport, this textbook offers a long-overdue guide for students in this burgeoning subfield in sport management. Editors Li, MacIntosh, and Bravo have assembled contributors from all corners of the globe to present a truly international perspective on the topic. With attention to diversity and multiple viewpoints, each chapter is authored by distinguished academics and practitioners in the field. A foreword by esteemed sport management scholar Dr. Earle Zeigler emphasizes the importance of a dedicated study of the issues in international sport management. All chapters in the text use a global perspective to better showcase how international sport operates in various geopolitical environments and cultures. The text is arranged in five parts, each serving a unique purpose: •To outline the issues associated with international sport management •To examine sport using a unique perspective that emphasizes its status as a global industry •To introduce the structure of governance in international sport •To examine the management essentials in international sport •To apply these strategies in the business segments of sport marketing, sport media and information technology, sport facilities and design, sport event management, and sport tourism Written to engage students, International Sport Management contains an array of learning aids to assist with comprehension of the material. It includes case studies and sidebars that apply the concepts to real-world situations and demonstrate the varied issues, challenges, and opportunities affecting sport management worldwide. Chapter objectives, key terms, learning activities, summaries, and discussion questions guide learning in this wide-ranging subject area. In addition, extensive reference sections support the work of practitioners in the field. With International Sport Management, both practicing and future sport managers can develop an increased understanding of the range of intercultural competencies necessary for success in the field. Using a framework of strategic and total-quality management, the text allows readers to examine global issues from an ethical perspective and uncover solutions to complex challenges that sport managers face. With this approach, readers will learn how to combine business practices with knowledge in international sport to lead their current and future careers. International Sport Management offers readers a multifaceted view of the issues, challenges, and opportunities in international sport management as well as the major functional areas that govern international sport. The text provides students, academics, and practitioners with critical insights into the practice of business as it applies to international sport. **Proceedings of the 5th International Conference on Frontiers in Intelligent Computing: Theory and Applications FICTA 2016, Volume 1** *Springer* The book is a collection of high-quality peer-reviewed research papers presented at International Conference on Frontiers of Intelligent Computing: Theory and applications (FICTA 2016) held at School of Computer Engineering, KIIT University, Bhubaneswar, India during 16 – 17 September 2016. The book presents theories, methodologies, new ideas, experiences and applications in all areas of intelligent computing and its applications to various engineering disciplines like computer science, electronics, electrical and mechanical engineering. **Sports Management as an Emerging Economic Activity Trends and Best Practices** *Springer* This book examines the sports industry as a broad business and economic sector with an enormous influence on regional economic development. Covering topics such as sports economics, financing sports organizations, sustainability management in sports, sports tourism and doping among athletes, this book provides a timely collection of research and best practices in the areas of sports management and policy. Sports activity is a rapidly growing and evolving industry, offering numerous business opportunities--from the manufacturing of sporting equipment and activity at gyms and sports centers to revenue from sporting events and sport tourism. In order for the varied businesses across the sport industry, whether public or private, to be successful, proper management strategies and policies must be in place. This includes the knowledge of the industry, strategic planning, sector analysis, quality management and sustainable (economic and environmental) use of resources. Featuring case examples from several countries, including Spain, Turkey, Uruguay, Portugal, and Italy, this volume provides international perspectives on a wide spectrum of managerial issues across this dynamic industry.