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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Part 1 Sports Science and Technology Application -- chapter 1 The Mechanical Aspects of Martial Arts: Total Time of Execution and Kinematics of Kaedah A -- chapter 2 Determination of Tenpin Bowling Lane's Rolling Resistance Based on Kinetics and Kinematics Modeling -- chapter 3 Reflection Rate Index (RRI) of Markers for Motion Capture Application -- chapter 4 Efficacy of Handgrip Strength in Predicting Total Body Strength Among High Performance Athletes -- chapter 5 Emotion Intelligence and Sports Performance Among Malaysian Ethnicity -- chapter 6 Pulmonary Function Profiling Among Young Athletes of SUKMA Terengganu -- chapter 7 The Effects of Aging on Body Composition, Leg Power and Balance Among Malaysian Women -- chapter 8 A Study on Factors Associated with Physical Fitness Status Among Emergency Response Team of Oil and Gas Company in Peninsular Malaysia -- chapter 9 Performance Indices of Two Different

Repeated Ability Tests by Playing Positions -- chapter 10 Adjustable Crank: A Comparison Between Wireless Motion Sensor and Motion Capture Analysis Camera for Crank Kinematic Measurement -- chapter 11 The Initial Design of Learning Outcomes in the Sport Training Application -- Part 2 Exercise Science and Applied Performance -- chapter 12 Acute Effects of Using Ricebag on Trunk and Hip Range of Motion Among Back Ache Patients -- chapter 13 The Effect of Eccentric Training Using Thera-Band of Hamstring Flexibility of Older Adults -- chapter 14 Digitus Secundus and Digitus Medicinalis Ratio: Examination of Sporting Ability Predictor in Male Youth -- chapter 15 Differences in Game Statistics Between Winning and Losing Teams in Inter University Elite Male Sepak Takraw Tournament: A Pilot Study -- chapter 16 Digit Ratio (2D:4D) as Predictor of Body Composition Among School Children -- chapter 17 Effects of Ricebag on Skin Interface and Pain in Chronic Back Pain Patients -- chapter 18 The Differences Between Students with Intellectual Disabilities and Normal Students on the Physical Fitness Level -- chapter 19 Single Versus Multiple Sets Resistance Training on Strength and Power Among Untrained Men -- chapter 20 Motives of Malay, Chinese and Indian Football Players -- chapter 21 The Effects of 8-Week Integrated Training Program on Malaysian Junior Tennis Players' Performance -- chapter 22 Athlete Overtraining Monitoring System. .

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### Sommario/riassunto

The proceeding is a collection of research papers presented at the International Colloquium on Sports Science, Exercise, Engineering and Technology (ICoSSEET2014), 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 as follows but are not limited to:

1. Sports and Exercise Science • Sports Nutrition • Sports Biomechanics • Strength and Conditioning • Motor Learning and Control • Sports Psychology • Sports Coaching • Sports and Exercise Physiology • Sports Medicine and Athletic Trainer • Fitness and Wellness • Exercise Rehabilitation • Adapted Physical Activity / Disability Sport • Physical Education • Dance, Games and Play
2. Sports Engineering and Technology Application • Sports Equipment Mechanics • Athlete Analysis and Measurement • Instrumentation and Measurement in Sports • Fluid Dynamics in Sports • Computational Modeling in Sports
3. Sports Industry and Management • Sports Event • Sports Management • Sports Tourism • Sports Marketing • Sports Ethics and Law • Sports Sociology • Outdoor and Recreation Management • Inclusive Recreation • Leisure.

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