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Nota di contenuto	Title page; Preface; Acknowledgements; Contents; Peer-Reviewed Extended Papers (Podium Presentation); Chapter 1. Genetics and Etiology; Recent Advances in the Study of Candidate Genes for Adolescent Idiopathic Scoliosis; Chapter 2. Growth and Metabolism; The Role of Remodeling and Asymmetric Growth in Vertebral Wedging; Chapter 3. Imaging; Improvements in Three-Dimensional Back Contour After Spinal Fusion for Idiopathic Scoliosis; Simple Technique to Evaluate Thorax Asymmetry in Scoliosis: Clinical Usefulness to Assess Deformity and Mobility Non-Rigid Surface Shape Registration to Monitor Change in Back Surface TopographyApplication of 3-D Ultrasound in Assisting the Fitting Procedure of Spinal Orthosis to Patients with Adolescent Idiopathic Scoliosis; Design and Evaluation of an MRI Compatible Axial Compression Device for 3D Assessment of Spinal Deformity and Flexibility in AIS; Using Ultrasound to Guide the Insertion of Pedicle Screws During Scoliosis Surgery; Towards a Handheld Probe Based on

Optical Coherence Tomography for Minimally Invasive Spine Surgeries;
 3D Visualization Tool for Minimally Invasive Discectomy Assistance
 Chapter 4. Biomechanics, Movement and Posture
 Rib Length Discrepancy in Patients with Adolescent Idiopathic Scoliosis; Pre-
 Existing Vertebral Rotation in the Human Spine Is Influenced by Body
 Position; Evaluation of Reducibility of Trunk Asymmetry in Lateral
 Bending; Identifying the Best Surface Topography Parameters for
 Detecting Idiopathic Scoliosis Curve Progression; Optimized Use of
 Multi-Functional Positioning Frame Features for Scoliosis Surgeries;
 Finite Element Comparison of Different Growth Sparring
 Instrumentation Systems for the Early Treatment of Idiopathic Scoliosis
 Biomechanics of the Intra-Operative Lateral Decubitus Position for the
 Scoliotic Spine: Effect of the Pelvic Obliquity
 Gait in Adolescent Idiopathic Scoliosis. Kinematics, Electromyographic and Energy Cost
 Analysis; Quantification of Global Intervertebral Torques During Gait:
 Comparison Between Two Subjects with Different Scoliosis Severities;
 The Role of Posteriorly Directed Shear Loads Acting on a Pre-Rotated
 Growing Spine: A Hypothesis on the Pathogenesis of Idiopathic
 Scoliosis
 An Integrated Procedure for Spine and Full Skeleton Multi-Sensor
 Biomechanical Analysis & Averaging in Posture Gait and Cyclic
 Movement Tasks
 Analysis of Postural Stability Following Posterior Spinal
 Fusion in Adolescents with Idiopathic Scoliosis; Prevalence of
 Spondylolisthesis in a Population of Gymnasts; Chapter 5. Treatment;
 Factors Affecting Distal End & Global Decompensation in
 Coronal/Sagittal Planes 2 Years After Fusion; Super Hybrid Method of
 Scoliosis Correction: Minimum 2-Year Follow-Up
 Brace Prescription Patterns in Patients Referred to Orthopaedic Clinics
 for Adolescent Idiopathic Scoliosis (AIS)

Sommario/riassunto

In choosing Montreal for its 8th biennial meeting, the International Research Society of Spinal Deformities (IRSSD), is returning to an auspicious and important venue: their 1992 meeting in Montreal marked the turning point from a focus on the morphological aspects of spinal deformity, towards three-dimensional evaluation and interpretation of scoliotic deformities and their biomechanics. Since then, the IRSSD meetings have had an instrumental role in the advancement of scientific research on problems affecting the spine. This book contains the proceedings of the 2010 conference in the form of