

1. Record Nr.	UNINA9910574864803321
Titolo	Developmental Dysplasia of the Hip : From Early Sonographic Diagnosis to Effective Treatment / / edited by Joseph O'Beirne, Konstantinos Chlapoutakis
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2022
ISBN	3-030-94956-7
Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (154 pages)
Collana	Medicine Series
Disciplina	617.581
Soggetti	Radiology Orthopedic surgery Pediatrics Surgical Orthopedics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	Introduction -- Development of the Hip Joint: Embryology and Anatomy of the neonatal hip joint -- DDH: Definition, Epidemiology, Pathogenesis & Risk Factors -- Clinical examination in DDH -- An overview of diagnostic imaging modalities for DDH -- Imaging of early-onset osteoarthritis -- Early Detection of Hip Dysplasia -- Freehand sonographic techniques -- Hip sonography according to Graf -- Comparison of sonographic techniques -- Sonographic based treatment -- Further treatment -- Setting up an effective hip screening service -- Hip sonography training -- Hip sonography – preparing for the future.
Sommario/riassunto	This book is a reference source containing all the relevant information about Developmental Dysplasia of the Hip (DDH), for people who practice or utilize hip sonography for the early detection and treatment of DDH. It aims at improving the population screening for DDH, thus contributing to the elimination of the disorder and its devastating consequences. What makes this book different from existing literature is the fact that, apart from the (updated) information about the disorder (including development, pathophysiology, etiology, pathogenesis, risk factors etc.) and a short technical guidance, the reader will find all

relevant knowledge to organize training and set up screening. This includes analysis of the rationale behind universal sonographic screening, a comparative presentation of the sonographic techniques, teaching course structure / management and setting up a screening service, including audit, quality control of the scans etc. Special chapters about radiological diagnosis, imaging the consequences of non-diagnosis or maltreatment of the disorder, clinical management of DDH cases and shaping the future of hip sonography, are also provided. The book will be of interest to any medical doctor, but in particular to those working in the fields of radiology, pediatrics, orthopedics or general medicine, sonographers performing hip scans, or specialist nurses dealing with DDH.

2. Record Nr. UNINA9910768181703321

**Titolo**

Theorem Proving in Higher Order Logics : 15th International Conference, TPHOLs 2002, Hampton, VA, USA, August 20-23, 2002. Proceedings // edited by Victor A. Carreno, Cesar A. Munoz, Sofiene Tahar

**Pubbl/distr/stampa**

Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2002

**ISBN**

3-540-45685-6

**Edizione**

[1st ed. 2002.]

**Descrizione fisica**

1 online resource (X, 347 p.)

**Collana**

Lecture Notes in Computer Science, , 0302-9743 ; ; 2410

**Disciplina**

004/01/5113

**Soggetti**

Computer architecture  
Computers  
Software engineering  
Logic design  
Computer System Implementation  
Theory of Computation  
Software Engineering  
Logic Design

**Lingua di pubblicazione**

Inglese

**Formato**

Materiale a stampa

**Livello bibliografico**

Monografia

**Note generali**

Bibliographic Level Mode of Issuance: Monograph

Nota di bibliografia

Includes bibliographical references and index.

Nota di contenuto

Invited Talks -- Formal Methods at NASA Langley -- Higher Order Unification 30 Years Later -- Regular Papers -- Combining Higher Order Abstract Syntax with Tactical Theorem Proving and (Co)Induction -- Efficient Reasoning about Executable Specifications in Coq -- Verified Bytecode Model Checkers -- The 5 Colour Theorem in Isabelle/Isar -- Type-Theoretic Functional Semantics -- A Proposal for a Formal OCL Semantics in Isabelle/HOL -- Explicit Universes for the Calculus of Constructions -- Formalised Cut Admissibility for Display Logic -- Formalizing the Trading Theorem for the Classification of Surfaces -- Free-Style Theorem Proving -- A Comparison of Two Proof Critics: Power vs. Robustness -- Two-Level Meta-reasoning in Coq -- PuzzleTool: An Example of Programming Computation and Deduction -- A Formal Approach to Probabilistic Termination -- Using Theorem Proving for Numerical Analysis Correctness Proof of an Automatic Differentiation Algorithm -- Quotient Types: A Modular Approach -- Sequent Schema for Derived Rules -- Algebraic Structures and Dependent Records -- Proving the Equivalence of Microstep and Macrostep Semantics -- Weakest Precondition for General Recursive Programs Formalized in Coq.

Sommario/riassunto

This book constitutes the refereed proceedings of the 15th International Conference on Theorem Proving in Higher Order Logics, TPHOLs 2002, held in Hampton, VA, USA in August 2002. The 20 revised full papers presented together with 2 invited contributions were carefully reviewed and selected from 34 submissions. All current issues in HOL theorem proving and formal verification of software and hardware systems are addressed. Among the HOL theorem proving systems evaluated are Isabelle/HOL, Isabelle/Isar, and Coq.