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Nota di contenuto	Joep Kraeima, Sebastiaan de Visscher and Max Witjes Three-Dimensional Innovations in Personalized Surgery -- Sherif Idris, Heather Logan, Paul Tabet, Martin Osswald, Suresh Nayar and Hadi Seikaly The Accuracy of 3D Surgical Design and Simulation in Prefabricated Fibula Free Flaps for Jaw Reconstruction -- Nick Assink, Anne M. L. Meesters, Kaj ten Duis, Jorrit S. Harbers, Frank F. A. IJpma and Hugo C. van der Veen et al. A Two-Step Approach for 3D-Guided Patient-Specific Corrective Limb Osteotomies -- Anne M. L. Meesters, Miriam G. E. Oldhoff, Neeltje M. Trouwborst, Nick Assink, Joep Kraeima and Max J. H. Witjes et al. QuantitativeThree-DimensionalMeasurementsofAcetabularFractureDisplacementCouldBe Predictive for Native Hip Survivorship -- Bram B.J. Merema, Max J.H. Witjes, Nicolaas B.Van Bakelen, Joep Kraeima and Frederik K. L. Spijkervet Four-Dimensional Determination of the Patient-Specific Centre of Rotation for Total Temporomandibular Joint Replacements: Following the Groningen Principle -- Juliana F. Sabelis, Ruud Schreurs, Harald Essig, Alfred G. Becking and Leander Dubois Personalized Medicine Workflow in Post-Traumatic Orbital Reconstruction -- Bram B. J. Merema, Jelbrich J. Sieswerda, Frederik K. L. Spijkervet, Joep Kraeima and Max J. H. Witjes A Contemporary Approach to Non-Invasive 3D Determination of Individual Masticatory Muscle Forces: A Proof of Concept -- Enkh-Orchlon Batbayar, Nick Assink, Joep Kraeima, Anne M. L. Meesters, Ruud R. M. Bos and Arjan Vissink et al. Quantitative Three-Dimensional Computed Tomography Measurements Provide a Precise

Diagnosis of Fractures of the Mandibular Condylar Process -- Nicolaas B. van Bakelen,Jasper W.van der Graaf, Joep Kraeima and Frederik K. L. Spijkervet Reproducibility of 2D and 3D Ramus Height Measurements in Facial Asymmetry -- Peter A. J. Pijpker, Jos M. A. Kuijlen, Katalin Tama´si, D. L. Marinus Oterdoom, Rob A. Vergeer and Gijs Rijtema et al. The Accuracy of Patient-Specific Spinal Drill Guides Is Non-Inferior to Computer-Assisted Surgery: The Results of a Split-Spine Randomized Controlled Trial -- Seung-Han Shin, Moo-Sub Kim, Do-Kun Yoon, Jae-Jin Lee and Yang-Guk Chung Does a Customized 3D Printing Plate Based on Virtual Reduction Facilitate the Restoration of Original Anatomy in Fractures? -- Haye H. Glas, Joep Kraeima, Silke Tribius, Frank K. J. Leusink, Carsten Rendenbach and Max Heiland et al. Three-Dimensional Evaluation of Isodose Radiation Volumes in Cases of Severe Mandibular Osteoradionecrosis for the Prediction of Recurrence after Segmental Resection -- Nathalie Vosselman, Haye H. Glas, Bram J. Merema, Joep Kraeima, Harry Reintsema and Gerry M. Raghoebar et al. Three-Dimensional Guided Zygomatic Implant Placement after Maxillectomy.

Sommario/riassunto

Current practice involves the use of 3D surgical planning and patient-specific solutions in multiple surgical areas of expertise. Patient-specific solutions have been endorsed for several years in numerous publications due to their associated benefits around accuracy, safety, and predictability of surgical outcome. The basis of 3D surgical planning is the use of high-quality medical images (e.g., CT, MRI, or PET-scans). The translation from 3D digital planning toward surgical applications was developed hand in hand with a rise in 3D printing applications of multiple biocompatible materials. These technical aspects of medical care require engineers' or technical physicians' expertise for optimal safe and effective implementation in daily clinical routines. The aim and scope of this Special Issue is high-tech solutions in personalized surgery, based on 3D technology and, more specifically, bone-related surgery. Full-papers or highly innovative technical notes or (systematic) reviews that relate to innovative personalized surgery are invited. This can include optimization of imaging for 3D VSP, optimization of 3D VSP workflow and its translation toward the surgical procedure, or optimization of personalized implants or devices in relation to bone surgery.

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ISBN	1-58347-388-2
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Note generali	Description based upon print version of record.
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Nota di contenuto	Front Cover ; Title Page; Copyright; Contents; About the Authors; Introduction by Surekha Parekh; DB2 11 for z/OS: Unmatched Efficiency for Big Data and Analytics by Julian Stuhler, Triton Consulting; DB2 11 for z/OS: The Database for Big Data and Analytics; Efficiency; CPU Reductions; zEC12 Exploitation; Application Compatibility; Transparent Archiving; Temporal Data Enhancements; Global Variables; Variable Arrays; Java Stored Procedure Enhancements; pureXML Enhancements; Optimizer and Query Performance Improvements; Data Sharing Performance Enhancements; Utility Enhancements Other Efficiency Enhancements Resilience; Extended Log Record Addressing: Current Issues; Extended Log Record Addressing: DB2 11 Enhancements; Enhanced Dynamic Schema Change; BIND/REBIND Enhancements; Security Enhancements; Other Resilience Enhancements; Business Analytics; SQL Aggregation Improvements; IBM DB2 Analytics Accelerator Enhancements; Hadoop and Big Data Support; QMF 11; Other Enhancements for Analytics Workloads; Upgrading to DB2 11; DB2 Version Prerequisites; Other Prerequisites; Upgrade Timing; Upgrade Process and Impact; DB2 11 Customer Case Studies; BMW Group Stadtwerke Bielefeld GmbHJN Data; Improved Query Performance in DB2 11 for z/OS by Terry Purcell; Predicate Indexability; Duplicate Removal; Hash Join and Sparse Index; Page Range Screening and

Indexing for Partitioned Table Spaces; RUNSTATS Enhancements; Additional Performance Improvements; Summary; IBM DB2 Utilities and Tools with DB2 11 for z/OS by Haakon Roberts; How DB2 for z/OS Can Help Reduce Total Cost of Ownership by Cristian Molaro; Business Needs and DB2 TCO; DB2 and TCO; Reducing TCO Through Synergy with System z; DB2 Synergy with System z; Reducing TCO Through CPU Savings
DB2 10 CPU Savings and Performance Improvements DB2 10 Performance Expectations; DB2 11 CPU Savings and Performance Improvements; DB2 11 Performance Expectations; Specialty Engines; DB2 10 and Specialty Engines; DB2 11 and Specialty Engines; Estimating zIIP Savings; Special Considerations for High zIIP Utilization; DB2 and zAAP on zIIP; Reducing TCO with Better Performance; Identifying Better Performance Opportunities; Getting Better Performance with REBIND; DB2 Plan Management; DB2 11 APREUSE (WARN) Enhancement; DB2 11 RELEASE(DEALLOCATE) Optimization DB2 11 Application Compatibility and APPLCOMPAT Case Study: Performance Benefits of REBIND; DB2 EXPLAIN At a Glance; DB2 10 High-Performance DBATs; Reducing TCO Through Storage Savings; DB2 Data Compression; DB2 Managed Disk Space Allocation; Case Study: Combined Effects of Data Compression and DB2 Managed Disk Space Allocation; Index Compression; Reducing TCO with Faster Analytics; IBM DB2 Analytics Accelerators; Leverage Legacy QMF Objects; Reducing TCO with Improved Scalability; DB2 10 Throughput Enhancements; DB2 Storage and Scalability; Data Sharing Member Consolidations; Conclusion

Sommario/riassunto

<P style=""MARGIN: 0in 0in 0pt; tab-stops: 246.0pt"" class=MsoNormal>The landscape of today's business is shaped by the mountains of data being produced, with rapid growth in the volume, variety, and velocity of data due to the explosion of smart devices, mobile applications, cloud computing, and social media. Much of this growth has been in unstructured data; however, by 2020, internet business transactions-business-to-business and business-to-consumer-are predicted to reach 450 billion per day. Smart organizations are seeking innovative ways to turn this explosion of data, called big data, i

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