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+/- X -- Theory -- Computational Complexity and Mathematical Proofs -- Logic for Computer Science: The Engineering Challenge -- From Algorithm to Program to Software Library -- Artificial Intelligence -- Pervasive Speech and Language Technology -- Embodied Artificial Intelligence 10 Years Back, 10 Years Forward -- Graphics and Vision -- Scientific Visualization - Methods and Applications - -- Computer Vision: Past and Future -- Immersion into Other Disciplines -- Computational Biology at the Beginning of the Post-genomic Era -- Computer Science in Physics.

Sommario/riassunto

Informatics - 10 Years Back, 10 Years Ahead presents a unique collection of expository papers on major current issues in the field of computer science and information technology. The 26 contributions written by leading researchers on personal invitation assess the state of the art of the field by looking back over the past decade, presenting important results, identifying relevant open problems, and developing visions for the decade to come. This book marks two remarkable and festive moments: the 10th anniversary of the International Research and Conference Center for Computer Science in Dagstuhl, Germany and the 2000th volume published in the Lecture Notes in Computer Science series.
