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Sommario/riassunto	This book LNCS 15519 constitutes the refereed proceedings of the 16th BenchCouncil International Symposium on Benchmarking, Measuring, and Optimizing, Bench 2024, held in Guangzhou, China, during December 4–6, 2024. The 8 full papers were carefully reviewed and selected from 10 submissions. They focus on latest innovations in benchmarking science and engineering across multiple disciplines, including benchmark and standard specifications, implementations, and validations.