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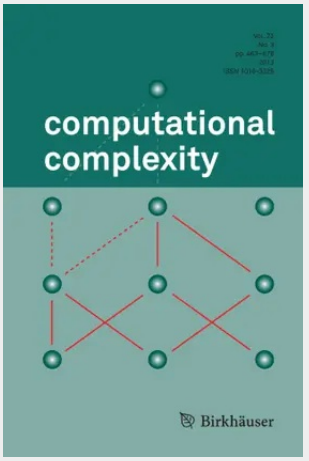
computational complexity

computational complexity presents outstanding research in computational complexity. Its subject is at the interface between mathematics and theoretical computer science, with a clear mathematical profile and strictly mathematical format. The central topics are: Models of computation, complexity bounds (with particular emphasis on lower bounds), complexity classes, trade-off results - for sequential and parallel computation - for "general" (Boolean) and "structured" computation (e.g. decision trees, arithmetic circuits) - for deterministic, probabilistic, and nondeterministic computation - worst case and average case Specific areas of concentration include: - Structure of complexity classes (reductions, relativization questions, degrees, derandomization) - Algebraic complexity (bilinear complexity, computations for polynomials, groups, algebras, and representations) - Interactive proofs, pseudorandom generation, and randomness extraction Complexity issues in: - cryptography - learning theory - number theory - logic (complexity of logical theories, cost of decision procedures) - combinatorial optimization and approximate solutions - distributed computing - property testing



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