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Global Edges -- Phase Transition of the 3-Majority Dynamics with Uniform Communication Noise -- A Meta-Theorem for Distributed Certification -- The Red-Blue Pebble Game on Trees and DAGs with Large Input -- Local planar domination revisited -- Election in Fully Anonymous Shared Memory Systems: Tight Space Bounds and Algorithms -- Dispersion of Mobile Robots on Directed Anonymous Graphs -- Distributed Interactive Proofs for the Recognition of Some Geometric Intersection Graph Classes -- Exactly Optimal Deterministic Radio Broadcasting with Collision Detection -- Lower Bounds on Message Passing Implementations of Multiplicity-Relaxed Queues and Stacks -- Fixed Points and 2-Cycles of Synchronous Dynamic Coloring Processes on Trees.

Sommario/riassunto	This book constitutes the refereed conference proceedings of the 29th International Colloquium on Structural Information and Communication Complexity, SIROCCO 2022, held in Paderborn, Germany, in June 2022. The 16 full papers presented in this book were carefully reviewed and selected from 30 submissions. SIROCCO is devoted to the study of the interplay between structural knowledge, communication, and computing in decentralized systems of multiple communicating entities. Special emphasis is given to innovative approaches leading to better understanding of the relationship between computing and communication.