Record Nr. UNISA996466385003316 Stochastic spatial processes: mathematical theories and biological Titolo applications: Proceedings of a conference held in Heidelberg, 1984 / / edited by P. Tautu Berlin:,: Springer-Verlag,, [1986] Pubbl/distr/stampa ©1986 **ISBN** 3-540-47053-0 Edizione [1st ed. 1986.] Descrizione fisica 1 online resource (VIII, 312 p.) Collana Lecture notes in mathematics;; 1212 Disciplina 519.2 Soggetti Stochastic processes Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Bibliographic Level Mode of Issuance: Monograph Nota di contenuto Stochastic spatial processes in biology: A concise historical survey --Tests for space-time clustering -- Age distributions in birth and death processes -- Critical clustering in the two dimensional voter model --Measure-valued processes Construction, qualitative behavior and stochastic geometry -- Dual processes in population genetics -- Some peculiar properties of a particle system with sexual reproduction --Computer simulation of developmental processes in biology: Models for the developing limb -- Asymptotics and spatial growth of branching random fields -- Generation-dependent branching processes with immigration: convergence of distributions -- On a class of infinite particle systems evolving in a random environment -- Percolation processes and dimensionality -- Birth and death processes with killing and applications to parasitic infections -- Limit theorems for multitype branching random walks -- On the reproduction rate of the spatial general epidemic -- Nearest particle systems: Results and open problems -- Neutral models of geographical variation -- Stochastic measure diffusions as models of growth and spread -- L 2 convergence of certain random walks on Z d and related diffusions -- Random fields: Applications in cell biology -- Correlated percolation and repulsive particle systems. Sommario/riassunto Proceedings of a Conference held in Heidelberg, September 10 - 14,

1984.