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Sommario/riassunto

Communication, Culture, and Human Rights in Africa provides a comprehensive and interdisciplinary analysis of the interface between human rights and civil society, the media, gender, education, religion, health communication, and political processes, weaving theory, history, policy, and case analyses into a holistic intellectual and cultural critique while offering practical solutions.

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Cellular Automata: A Discrete View of the World; CONTENTS; Preface; 1 Preliminaries; 1.1 Self-Replicating Machines; 1.2 Grand Turing Machines; 1.3 Register Machines; 1.4 Logic Gates; 1.5 Dimension; 1.5.1 Kolmogorov Dimension; 1.6 Information and Entropy; 1.7 Randomness; 2 Dynamical Systems; 3 One-Dimensional Cellular Automata; 3.1 The Cellular Automaton; 3.2 Transition Functions; 3.3 Totalistic Rules; 3.4 Boundary Conditions; 3.5 Some Elementary Cellular Automata; 3.6 Additivity; 3.7 Reversibility; 3.8 Classification of Cellular Automata; 3.8.1 Langton's Parameter; 3.9 Universal Computation; 3.10 Density Problem; 3.11 Synchronization; 4 Two-Dimensional Automata; 4.1 The Game of Life; 4.1.1 Lifeforms; 4.1.2 Invariant Forms; 4.1.3 Oscillators; 4.1.4 Gliders; 4.1.5 Methuselah Configurations; 4.1.6 Garden of Eden; 4.1.7 Universal Computation in Life; 4.2 Other Automata; 4.2.1 Partitioning Cellular Automata; 4.3 Replication; 4.4 Asynchronous Updating; 5 Applications; 5.1 Excitable Media; 5.1.1 Neural Activity; 5.1.2 Cyclic Space; 5.1.3 The Hodgepodge Machine; 5.2 Schelling Segregation Model; 5.3 Prisoner's Dilemma; 5.4 Biological Models and Artificial Life; 5.4.1 Genetic Algorithms; 5.4.2 Predator-Prey; 5.4.3 Bacterial Growth; 5.4.4 Seashell Patterns; 5.5 Physical Models; 5.5.1 Diffusion; 5.5.2 Snow Crystals; 5.5.3 Sandpile Model; 5.5.4 Lattice Gases; 5.5.5 Ising Spin; 5.5.6 Steady-State Heat Flow; 5.5.7 The Digital Universe of Konrad Zuse and Edward Fredkin; 6 Complexity; 6.1 Mind Over Matter; 6.2 Random Boolean Networks; 6.3 Autonomous Agents; 6.3.1 Honey Bees; 6.3.2 Slime Molds; 6.3.3 Bacterial Colonies; 6.3.4 Langton's Ant; 6.3.5 Multi-Ant Systems; 6.3.6 Traveling Salesman Problem; Appendix A; References; Index

An accessible and multidisciplinary introduction to cellular automata. As the applicability of cellular automata broadens and technology advances, there is a need for a concise, yet thorough, resource that lays the foundation of key cellular automata rules and applications. In recent years, Stephen Wolfram's *A New Kind of Science* has brought the modeling power that lies in cellular automata to the attention of the scientific world, and now, *Cellular Automata: A Discrete View of the World* presents all the depth, analysis, and applicability of the classic Wolfram text in a straightforward, introdu