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Communications Based on Population Density. -- Analytical Modeling of Distributed Systems. -- On Optimal Exponential Splitting of Some Probability Density Functions. -- A Practical Solution to the Problem of High Quality Detecting People and Vehicles From Video Frames. -- Analysis of Functioning All-Optical Networks in Transient Mode Using Simulation Modeling. -- Towards Modeling Network Node Behavior in Decentralized Mobile Network. -- Distributed Systems Applications. -- Development of Distributed Digital Twins of Complex Technical Objects Based on an Agent-Oriented Software Architecture. -- Deep Learning Chest X-Rays of Pneumonia Binary Classification Based on Convolutional Neural Network for IoT networking. -- An Intelligent Approach for Early Detection of Potato Diseases.

Sommario/riassunto	The proceedings constitute papers presented in the 27th International Conference, DCCN 2024, held in Moscow, Russia, during September 23–27, 2024. The 11 full papers and 1 short paper included in this book were carefully reviewed and selected from 90 submissions. They were organized in topical sections as follows: Computer and Communication Networks; Analytical Modeling of Distributed Systems; Distributed Systems Applications.