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Nota di contenuto	<p>Intro -- Preface -- Contents -- List of Figures -- List of Tables -- 1</p> <p>Federated Learning at Mobile Edge Networks: A Tutorial -- 1.1</p> <p>Introduction -- 1.2 Background and Fundamentals of Federated Learning -- 1.2.1 Federated Learning -- 1.2.2 Statistical Challenges of FL -- 1.2.3 FL Protocols and Frameworks -- 1.2.4 Unique Characteristics and Issues of FL -- 1.3 Communication Cost -- 1.3.1 Edge and End Computation -- 1.3.2 Model Compression -- 1.3.3 Importance-Based Updating -- 1.4 Resource Allocation -- 1.4.1 Worker Selection -- 1.4.2 Joint Radio and Computation Resource Management -- 1.4.3 Adaptive Aggregation -- 1.4.4 Incentive Mechanism -- 1.5 Privacy and Security Issues -- 1.5.1 Privacy Issues -- 1.5.1.1 Information Exploiting Attacks in Machine Learning: A Brief Overview -- 1.5.1.2 Differential Privacy-Based Protection Solutions for FL Workers -- 1.5.1.3 Collaborative Training Solutions -- 1.5.1.4 Encryption-Based Solutions -- 1.5.2 Security Issues -- 1.5.2.1 Data Poisoning Attacks -- 1.5.2.2 Model Poisoning Attacks -- 1.5.2.3 Free-Riding Attacks -- 1.6 Applications of Federated Learning for Mobile Edge Computing -- 1.6.1 Cyberattack Detection -- 1.6.2 Edge Caching and Computation Offloading -- 1.6.3 Base Station Association -- 1.6.4 Vehicular Networks -- 1.7 Conclusion and Chapter Discussion -- 2 Multi-dimensional Contract Matching Design for Federated Learning in UAV Networks -- 2.1 Introduction -- 2.2 System Model and Problem Formulation -- 2.2.1 UAV Sensing Model -- 2.2.2 UAV Computation</p>

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