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Nota di contenuto	Intro -- Preface -- Organization -- Contents - Part II -- Contents - Part I -- Sustainability -- Housing with Energy Self-sufficiency and Zero Co2 Emissions -- 1 Introduction -- 2 Objectives and Methodology -- 3 Literature Review -- 4 Case Study -- 5 Conclusions -- References -- HiMLEdge - Energy-Aware Optimization for Hierarchical Machine Learning -- 1 Introduction -- 1.1 Synopsis -- 2 Related Works -- 3 The HiMLEdge Framework -- 3.1 Optimization Problem -- 3.2 Reinforcement Learning -- 4 Feasibility Study -- 4.1 Dataset -- 4.2 Measurement Setup -- 4.3 Exhaustive Search -- 4.4 Reinforcement Learning -- 4.5 System Level Energy Consumption -- 5 Conclusion -- References -- A Strategic-Operational Contribution to the One-Dimensional Multi-period Cutting Stock Problem for Sawmills -- 1 Introduction -- 2 Problem Description -- 3 Literature Review -- 4 Case Study -- 5 Proposed Mathematical Model -- 6 Results -- 6.1 First Case -- 6.2 Second Case -- 7 Conclusions -- References -- A New Approach for Air Quality Monitoring: A Case Study of Recife, Brazil -- 1 Introduction -- 2 Objectives -- 3 Methods -- 3.1 The Study Site: The RailBee® Telemetric System -- 3.2 Air Quality Monitoring -- 3.3 Low-Cost Sensors for Air Quality Monitoring -- 3.4 State of the Art of

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