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Nota di contenuto	Intro -- Committees -- Preface -- Contents -- About the Editors -- MPPT-Based a Fuzzy Logic and PO Algorithm for Standalone PV System Under Partial Shading Conditions -- 1 Introduction -- 2 System Description -- 2.1 Mathematical Modeling of PV Module -- 2.2 Partial Shading Effect -- 3 Power Conditioning Units -- 3.1 Boost Converter -- 3.2 Bidirectional Buck-Boost Converter -- 3.3 Inverter Circuit -- 4 MPPT Controller -- 4.1 Perturb and Observe Algorithm -- 4.2 Fuzzy Logic Controller -- 5 Results and Discussion -- 5.1 System Under Uniform Irradiance -- 5.2 Extracted Power Under PS Conditions -- 6 Conclusion -- References -- Comparison of the Efficiency of ANN Training Algorithms for Tracking the Maximum Power Point of Photovoltaic Field -- 1 Introduction -- 2 Modeling of Photovoltaic Panels -- 3 Maximum Power Point Tracker (MPPT) -- 4 Artificial Intelligence (AI) -- 4.1 Artificial Neural Networks (ANN) -- 4.2 ANN Training Algorithms -- 5 Configuration of the Proposed Approach -- 5.1 Proposed ANN Architecture -- 5.2 Proposed PV System -- 6 Results and Discussion -- 6.1 Simulation Results of the Proposed ANN Model -- 6.2 Efficiency of the ANN Model to Track the MPP -- 7 Conclusion -- References -- Development of an MPPT Control Based on Fuzzy Logic for a Photovoltaic System -- 1 Introduction -- 2 Block Diagram of a Photovoltaic System -- 3 Photovoltaic Panel Model -- 4 Boost Converter -- 5 Mppt Based on Fuzzy Logic -- 6 Simulation Results

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