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Nota di contenuto	Intro -- Title page -- Preface -- Organization -- Table of Contents -- Design of Two-Channel Quadrature Mirror Filter Banks Using Differential Evolution with Global and Local Neighborhoods -- Introduction -- Formulation of Design Problems -- DE with Global and Local Neighborhoods (DEGL) -- Control Parameters in DEGL -- Random Weight Factor -- Advantage of Random Weight Factor -- Design Problems -- Parameter Initializations -- Problem Examples -- Discussion of Results -- Conclusions -- References -- Differential Evolution with Modified Mutation Strategy for Solving Global

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Overview of the Proposed ML-NichePSO Algorithm.

Sommario/riassunto

These two volumes, LNCS 7076 and LNCS 7077, constitute the refereed proceedings of the Second International Conference on Swarm, Evolutionary, and Memetic Computing, SEMCCO 2011, held in Visakhapatnam, India, in December 2011. The 124 revised full papers presented in both volumes were carefully reviewed and selected from 422 submissions. The papers explore new application areas, feature new bio-inspired algorithms for solving specific hard optimization problems, and review the latest progresses in the cutting-edge research with swarm, evolutionary, and memetic computing in both theoretical and practical aspects.