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contemporary research achievement in sustainable utilization of plant genetic resources and conservation of plant genetic diversity within the framework of different crop systems It introduces the status of crop genetic diversity and provides prospects for conservation of crop genetic diversity for sustainable agriculture Plant genetic diversity is crucial for food security and agro ecosystem maintenance paving ways to achieve sustainable agriculture development This necessitates consciously and judiciously the conservation of all existing plant genetic resources for sustainable use in a variety of applications for human welfare The wild and traditional landraces have generated an increased interest as a repertoire of valuable traits for breeding and improvement of cultivated germplasm Internationally concerted actions and policies toward for the conservation and management of plant genetic diversity are mounting from the organization levels to national policies as deemed appropriate for the sustainable development goals This needs an understanding of genetic diversity of different crops ecological drivers and the structural changes within genetic diversity due to climate change It is also equally important to evolve knowledge on what how and where to conserve the existing plant genetic resources for present and future use Assessment of the genetic diversity presents in a wild and traditional agro ecosystem is another step towards effective utilization In the past few years advanced breeding tools have been developed which have offered great promise for efficient modification of targeted traits This book consolidates current knowledge in the above core areas of plant genetic diversity and conservation It is an essential reference for professionals researchers policy makers and commercial entrepreneurs concerned with plant genetic diversity and breeding to achieve enhanced agricultural productivity and sustainability of food resources to ensure food security The book is also invaluable for graduate students involved in agriculture research

Monthly Catalog of United States Government Publications, Cumulative Index United States. Superintendent of Documents,1976 Theoretical Aspects of Evolutionary Computing Leila Kallel, Bart Naudts, Alex Rogers, 2013-03-09 During the first week of September 1999 the Second EvoNet Summer School on Theoretical Aspects of Evolutionary Computing was held at the Middelheim cam pus of the University of Antwerp Belgium Originally intended as a small get together of PhD students interested in the theory of evolutionary computing the summer school grew to become a successful combination of a four day workshop with over twenty researchers in the field and a two day lecture series open to a wider audience This book is based on the lectures and workshop contributions of this summer school Its first part consists of tutorial papers which introduce the reader to a num ber of important directions in the theory of evolutionary computing The tutorials are at graduate level and assume only a basic backgroundin mathematics and com puter science No prior knowledge of evolutionary computing or its theory is nec essary The second part of the book consists of technical papers selected from the workshop contributions A number of them build on the material of the tutorials exploring the theory to research level Other technical papers may require a visit to the library

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