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Optimization Algorithms for Non-Linear Series Models with applications to 3D Human Motion Analysis in Video

Chapter 1. Introduction

Chapter 2. Research in 3d human tracking

Chapter 3. Modeling

Chapter 4. Covariance scaled sampling

Chapter 5. Computing roadmaps of local minima on dynamic non-convex cost functions

Chapter 6. Accelerated hyperdynamic sampling

Chapter 7. Analysis of the search problem

Chapter 8. Perspectives and open problems

- a) superquadrics and deformations
- b) the muller potential
- c) vision system design and implementation