

Population Dynamics and Computer Aided Proof

Zhengyi LU

Dept. of Math., Sichuan Univ., Chengdu 610064, China

Recent progress in both Biomathematics and Computer Mathematics is reviewed. Some problems about the stability, the permanence and the existence of limit cycles for Lotka-Volterra and Kolmogorov systems are solved by using recently developed theories and methods in Computer Mathematics.