Table of Figures

Figure 2.1: Evolution of Crisp Prey Predator Population 34
Figure 2.2: Evolution of Fuzzy Prey Population 36
Figure 2.3: Evolution of Fuzzy Predator Population 36
Figure 2.4: Evolution of Fuzzy Population of diabetes patients with and without complications 38
Figure 2.5: Evolution of Fuzzy Population of diabetes patients with complications 38
Figure 3.1: Number of uninfected people those may be infected 49
Figure 3.2: Number of infected people those may spread infection 50
Figure 3.3: Number of infected people they may spread infection by the second technique 50
Figure 3.4: Number of uninfected people who may be infected by the second technique 51
Figure 4.1: Expenditure for country X 57
Figure 4.2: Expenditure for country Y 57
Figure 4.3: Fuzzy Number representation of Prey population at $t = 0$ & 0.1 71
Figure 4.4: Fuzzy number representation of Predator population at $t = 0$ & 0.1 71
Figure 4.5: Fuzzy Number representation of Prey population at $t = 0$ & 0.1 73
Figure 4.6: Fuzzy Number representation of Predator population at $t = 0$ & 0.1 73
Figure 4.7: Fuzzy Number representation of Prey population at $t = 0$ & 0.1 74
Figure 4.8: Fuzzy Number representation of Predator population at $t = 0$ & 0.1 75
Figure 5.1: Evolution of Predator population for $t = 0$ to $t = 0.5$ 84
Figure 5.2: Evolution of Prey population for $t = 0$ to $t = 0.5$ 84
Figure 6.1: Energy balance of absorber plate, backplate and airflow in the solar air collector 108
Figure 6.2: Effect on the temperature at different fuzzy initial temperature for mass (0.0300). 116
Figure 6.3: Effect on the temperature at different fuzzy initial temperature for mass (0.0600) 116
Figure 6.4: Effect on the temperature at different fuzzy initial temperatures for mass (0.0800) 117