

Modern intelligent IT
Lab 4
(24.10.2016)
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Iterated Prisoner's Dilemma

Diagram1. Average fitness

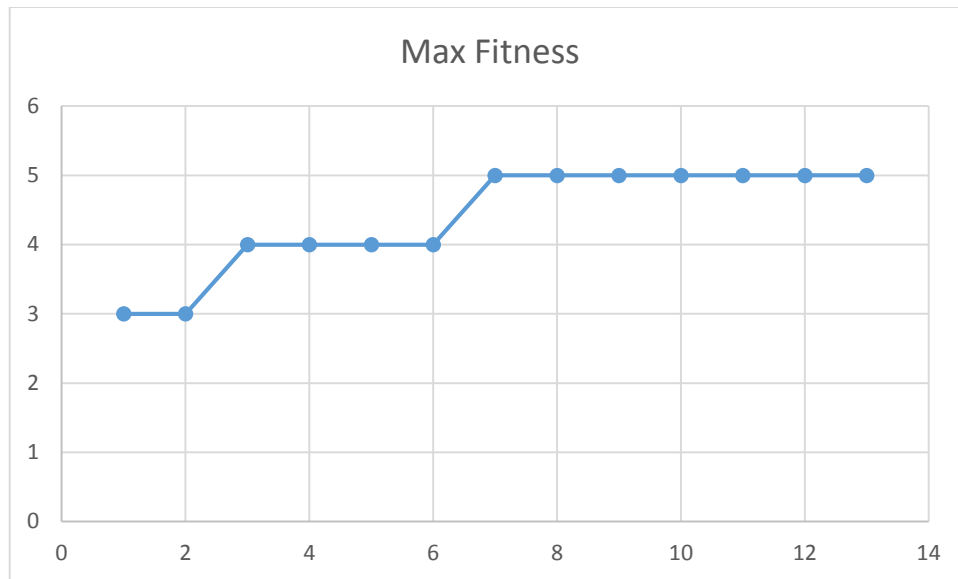
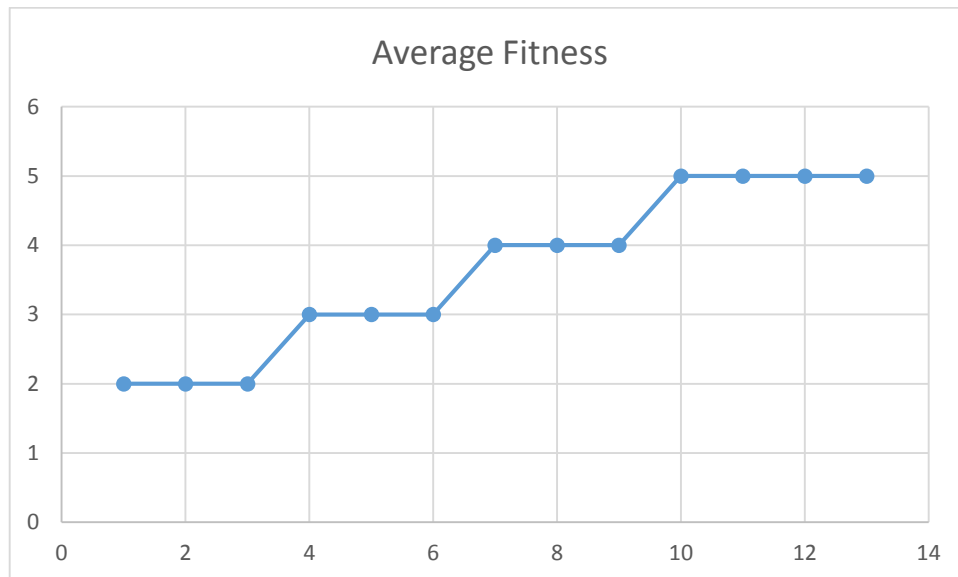


Diagram2. Max fitness



Best vs Random games

1. First iteration

Best: 0100110101110010001010101011111101001000100001001111001110100010

Random: 1011111100100111100110110100101111110001000010001101011101011001

1	0	0	0	1	1	1	0	0
0	1	0	0	0	0	1	0	0

Score 1: $5 + 0 + 3 + 3 + 5 + 5 + 1 + 3 + 3 = 28$

Score 2: $0 + 5 + 3 + 3 + 0 + 0 + 1 + 3 + 3 = 18$

2. Average iteration

Best: 0110100000111100010111100010101001001001100001001101100111111011

Random: 011010101011010101110110101011110001111110011110111010010100011

1	0	0	1	1	1	0	1	0
0	1	0	0	0	1	1	0	0

Score 1: $5 + 0 + 3 + 5 + 5 + 1 + 0 + 5 + 3 = 27$

Score 2: $0 + 5 + 3 + 0 + 0 + 1 + 5 + 0 + 3 = 17$

3. Last iteration

Best: 0110100101111010000101100011011111100000001010010101100111111011

Random: 0110101101010001010111100011111010011110110101011101101010100011

1	0	1	1	1	1	1	1	1
0	0	1	0	0	1	1	1	0

Score 1: $5 + 3 + 1 + 5 + 5 + 1 + 1 + 1 + 5 = 27$

Score 2: $0 + 3 + 1 + 0 + 0 + 1 + 1 + 1 + 0 = 7$