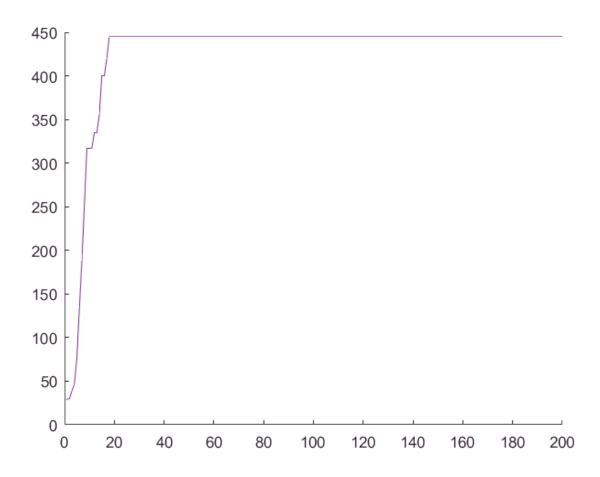
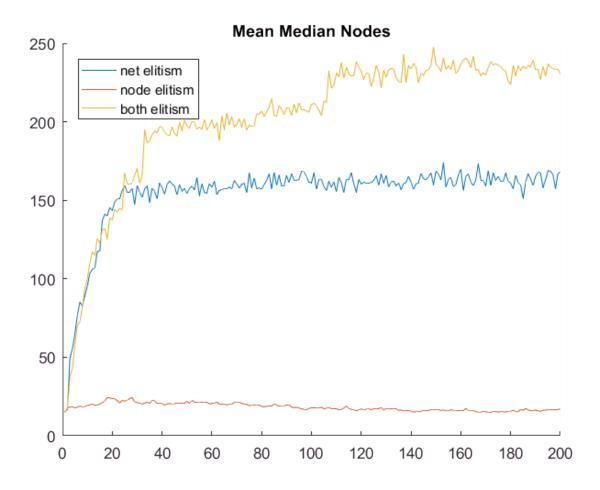
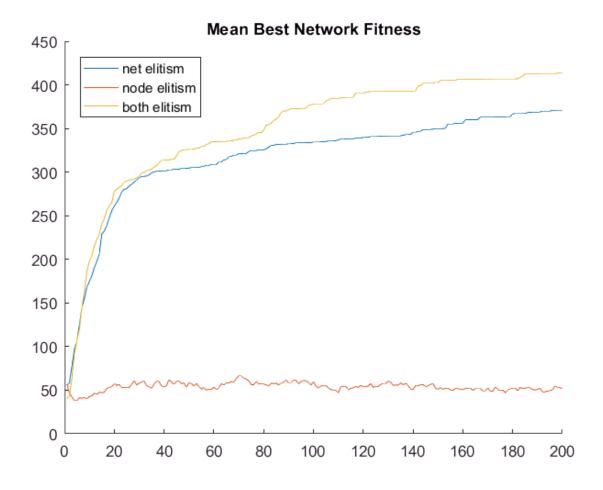
```
clear;
addpath('simulator');
p(1).topology = [6 2 1];
evaluationFunction = 'twoPoleEvaluation';
p(1).permutationOption = 1;
p(1).elitismOption = 1;
p(1).targetFitness = 1000;
p(1).maximumGenerations = 200;
p(2) = p(1);
p(2).permutationOption = 1;
p(2).elitismOption = 2;
p(3) = p(1);
p(3).permutationOption = 1;
p(3).elitismOption = 3;
nRuns = 30;
for experiment=1:3
  clearvars medianNodes bestNet medianNet r;
  medianNodes = ones(nRuns,p(experiment).maximumGenerations) * p(experiment).targetFitness;
  bestNet = ones(nRuns,p(experiment).maximumGenerations) * p(experiment).targetFitness;
  medianNet = ones(nRuns,p(experiment).maximumGenerations) * p(experiment).targetFitness;
  for run=1:nRuns
    r(run) = doEsp(evaluationFunction, p(experiment));
    medianNodes(run, 1:size(r(run).medianNodeFitness, 2)) = mean(r(run).medianNodeFitness, 1);
    bestNet(run,1:size(r(run).bestNetFitness,2)) = r(run).bestNetFitness;
    medianNet(run, 1: size(r(run).medianNetFitness, 2)) = r(run).medianNetFitness;
  end
  meanMedianNodes(experiment,:) = mean(medianNodes,1);
  meanBestNet(experiment,:) = mean(bestNet,1);
  meanMedianNet(experiment,:) = mean(medianNet,1);
end
```



```
figure(1); clf; hold on;
for i=1:3
  plot(meanMedianNodes(i,:));
end
legend('net elitism','node elitism',...
  'both elitism',...
  'Location','northwest');
title('Mean Median Nodes');
```



```
figure(2); clf; hold on;
for i=1:3
  plot(meanBestNet(i,:));
end
legend('net elitism','node elitism',...
  'both elitism',...
  'Location','northwest');
title('Mean Best Network Fitness');
```



```
figure(3); clf; hold on;
for i=1:3
  plot(meanMedianNet(i,:));
end
legend('net elitism','node elitism',...
  'both elitism',...
  'Location','northwest');
title('Mean Median Network Fitness');
```

