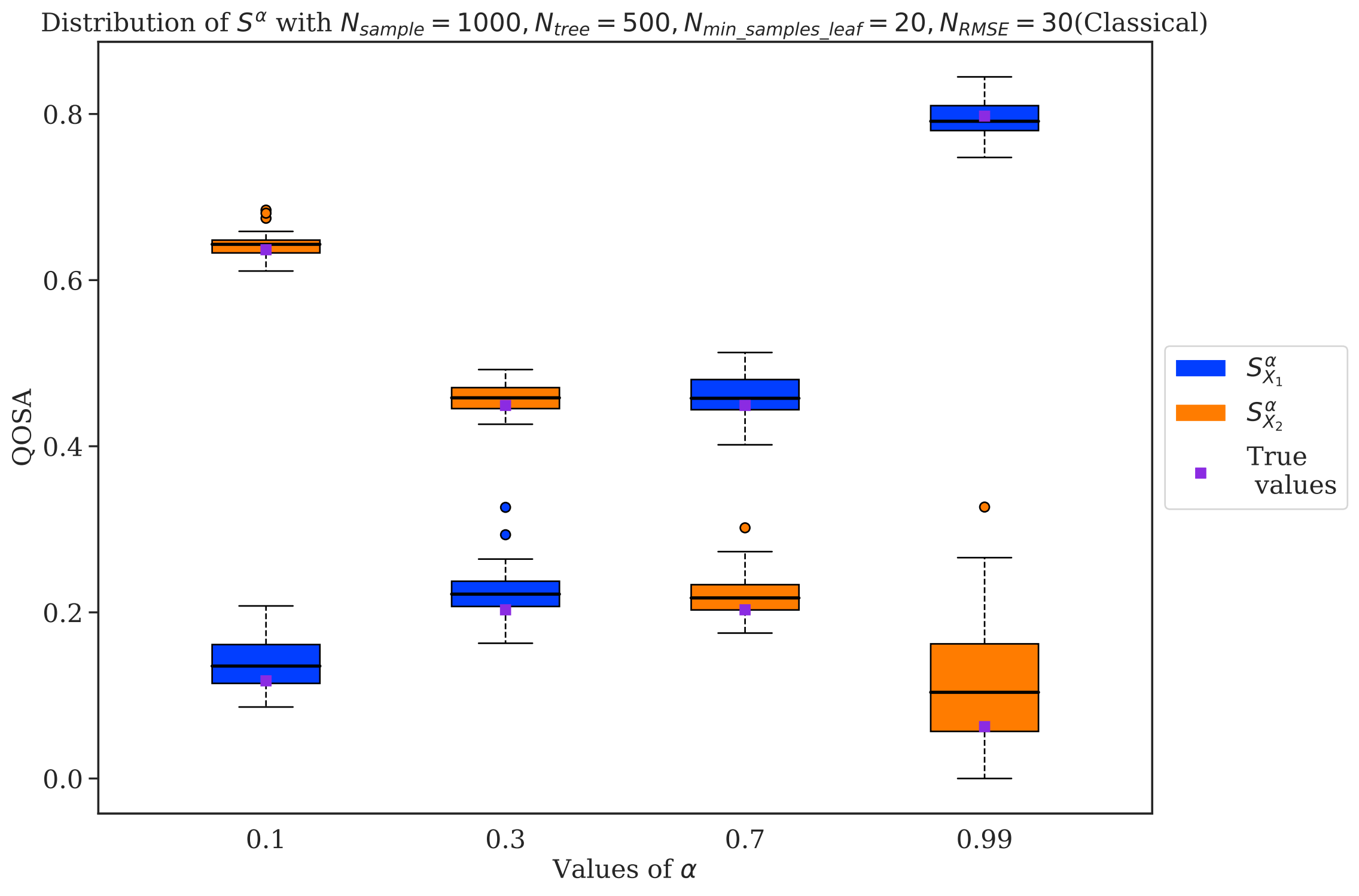
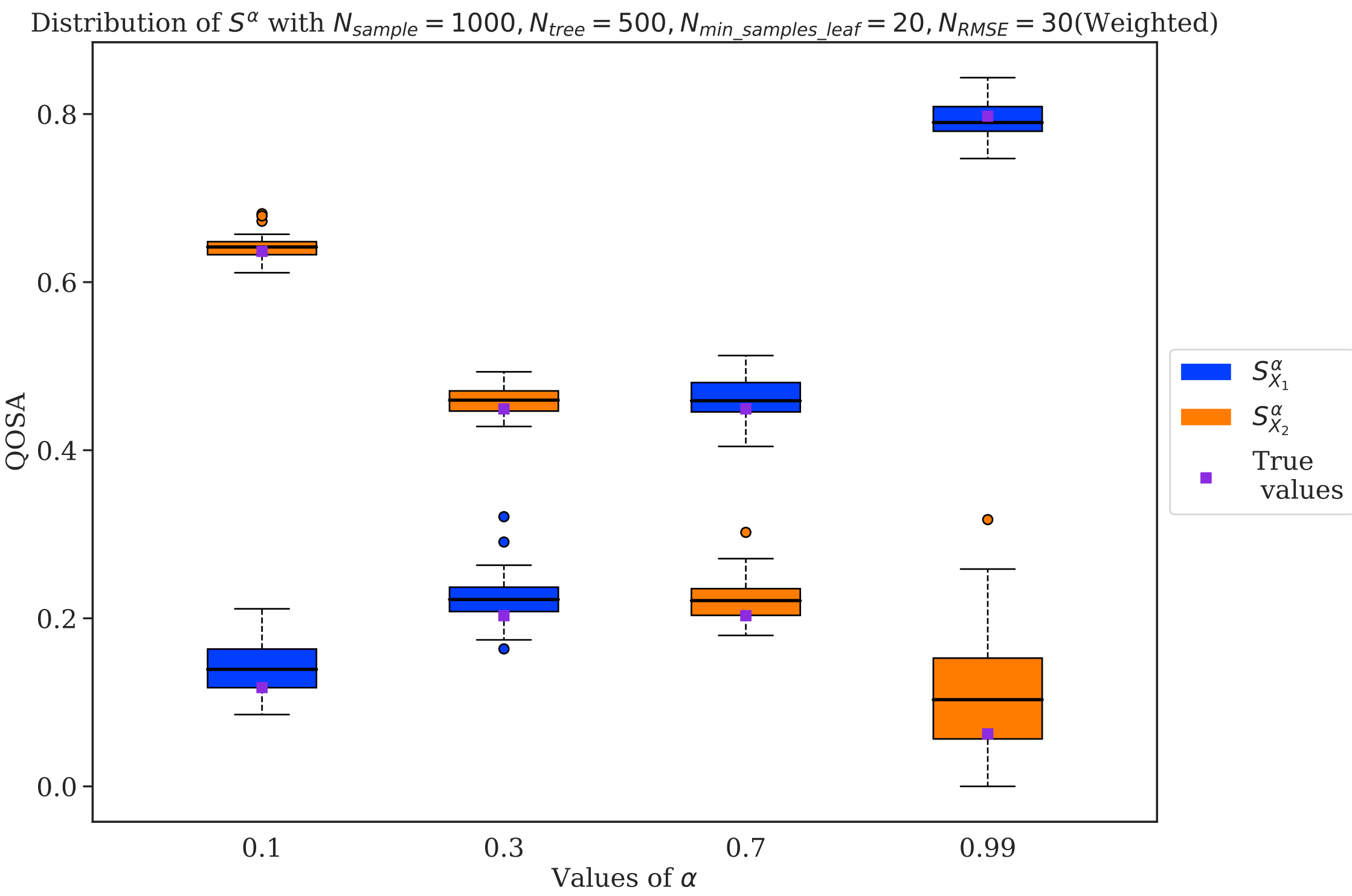
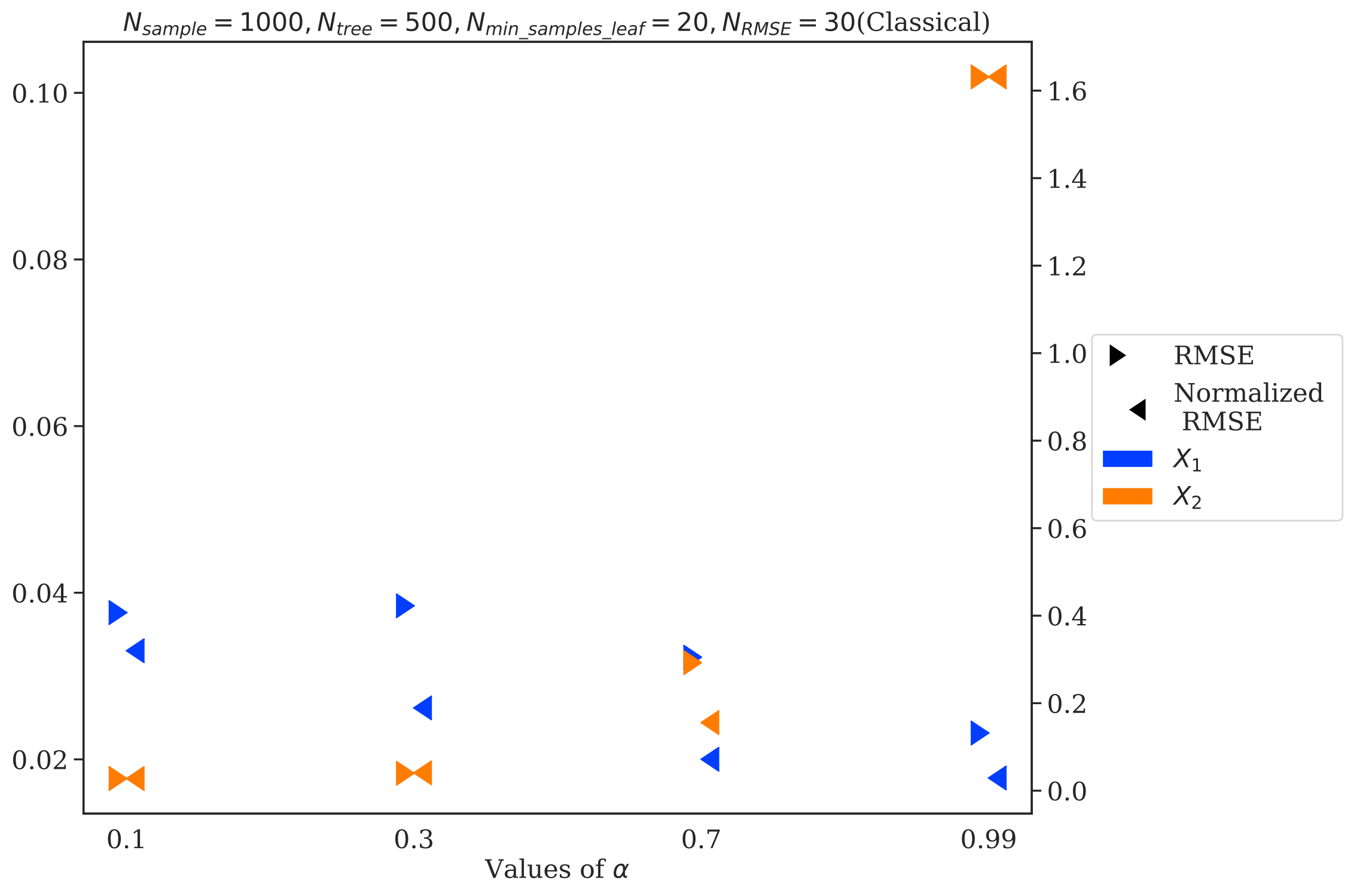
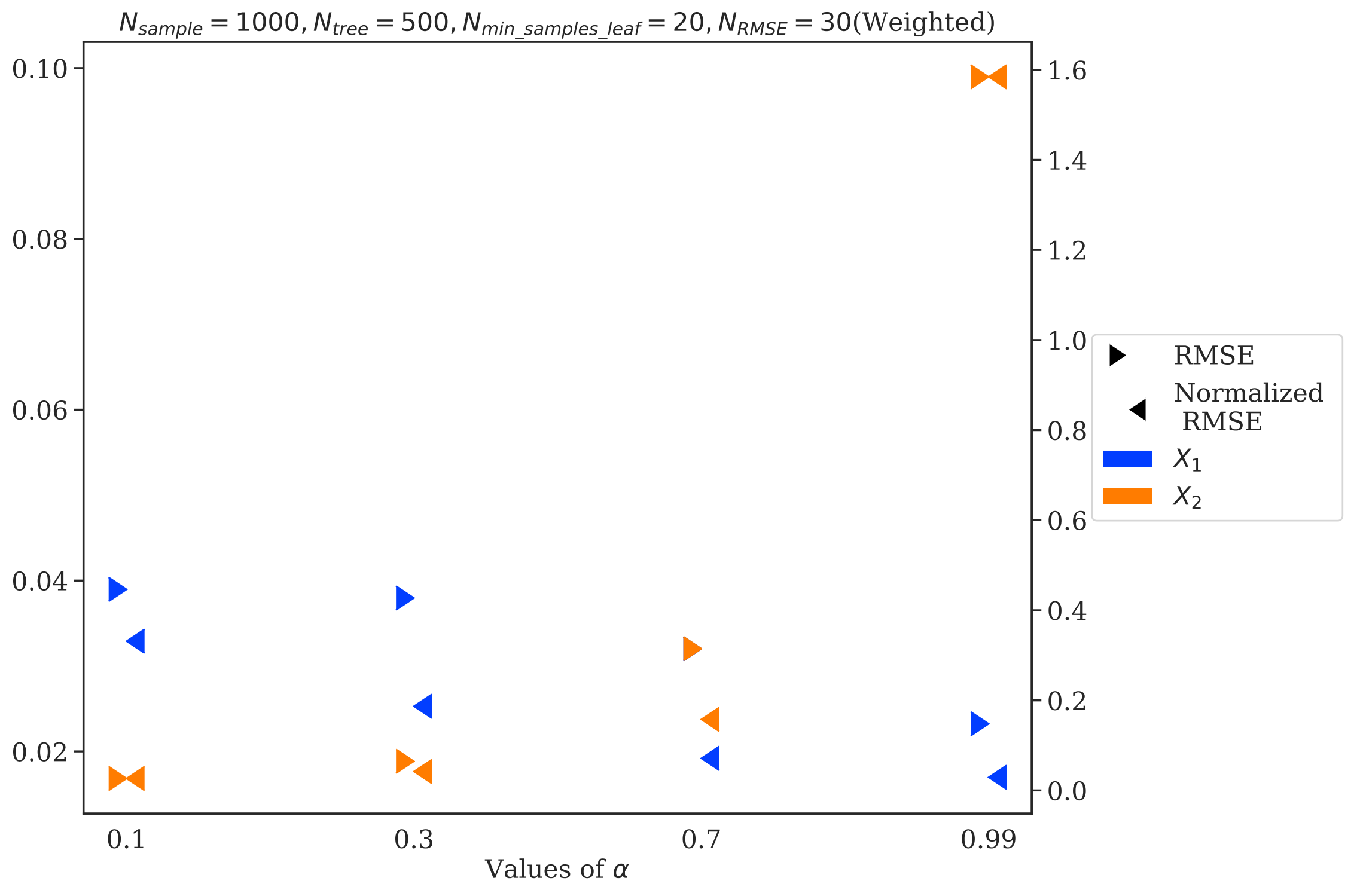
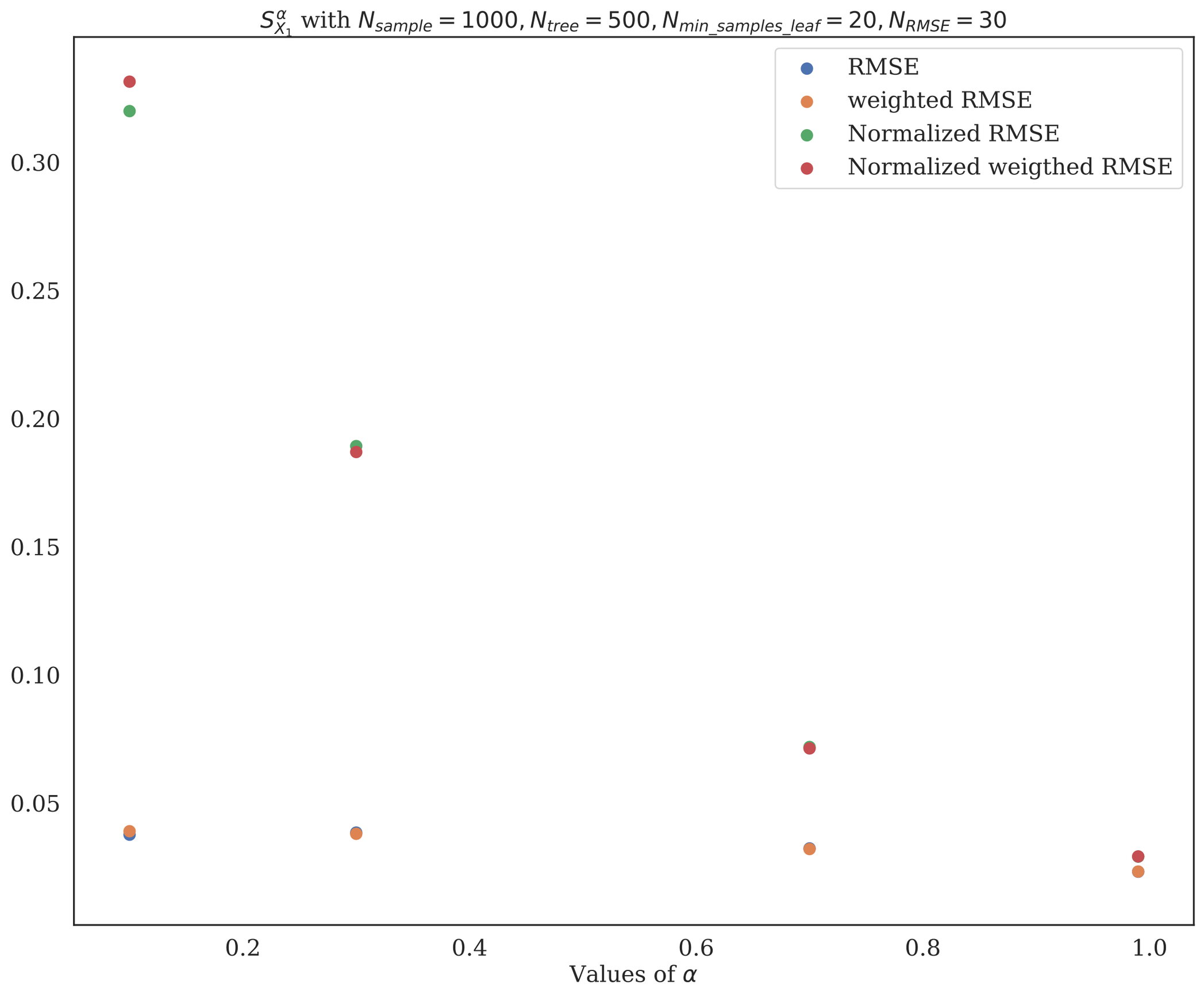
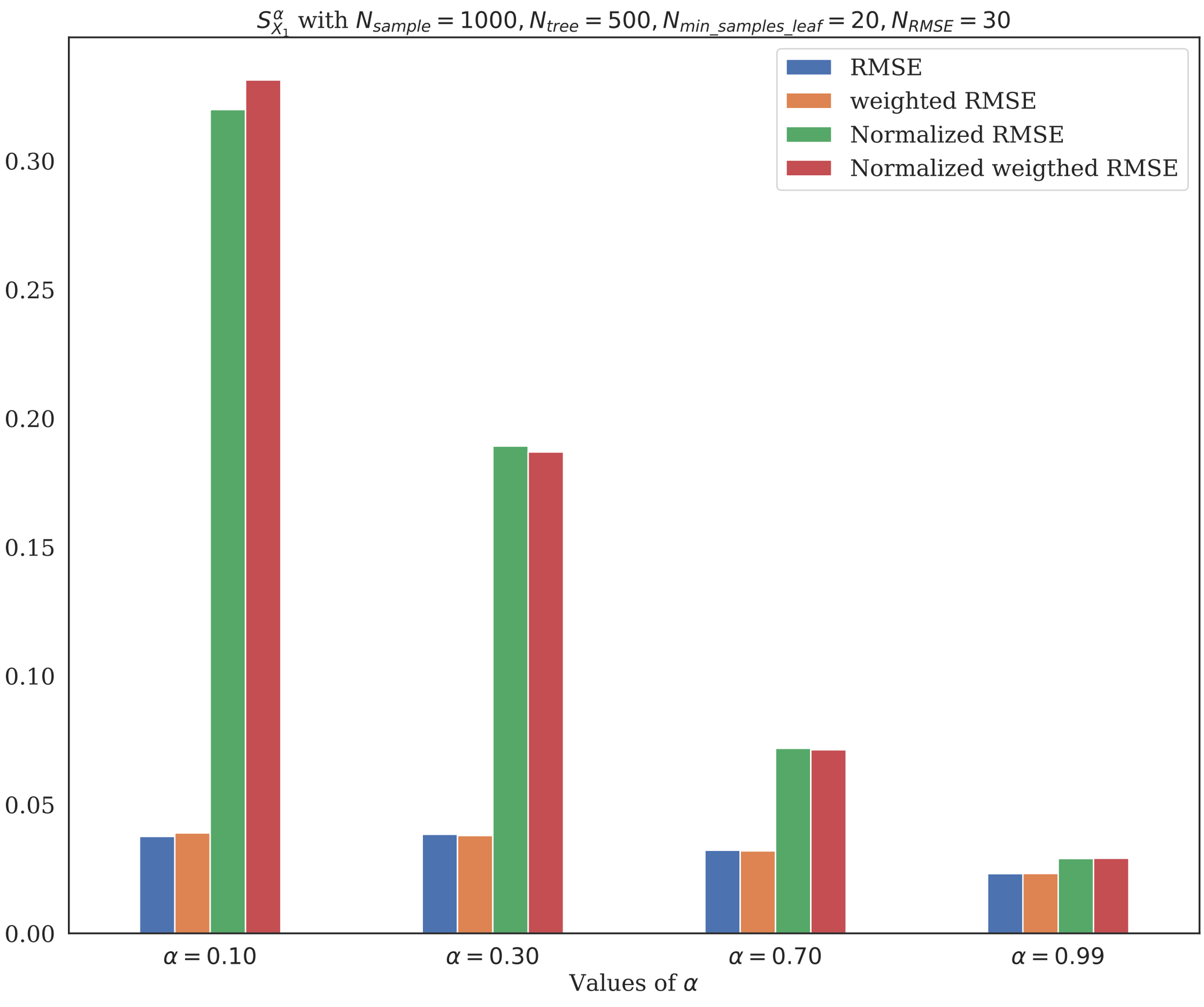

Distribution of S^{α} with $N_{sample} = 1000, N_{tree} = 500, N_{min_samples_leaf} = 20, N_{RMSE} = 30$(Classical)
QOSA
0.0
0.2
0.4
0.6
0.8
0.1
0.3
0.7
0.99
Values of α
$S^{\alpha}_{X_1}$
$S^{\alpha}_{X_2}$
True values

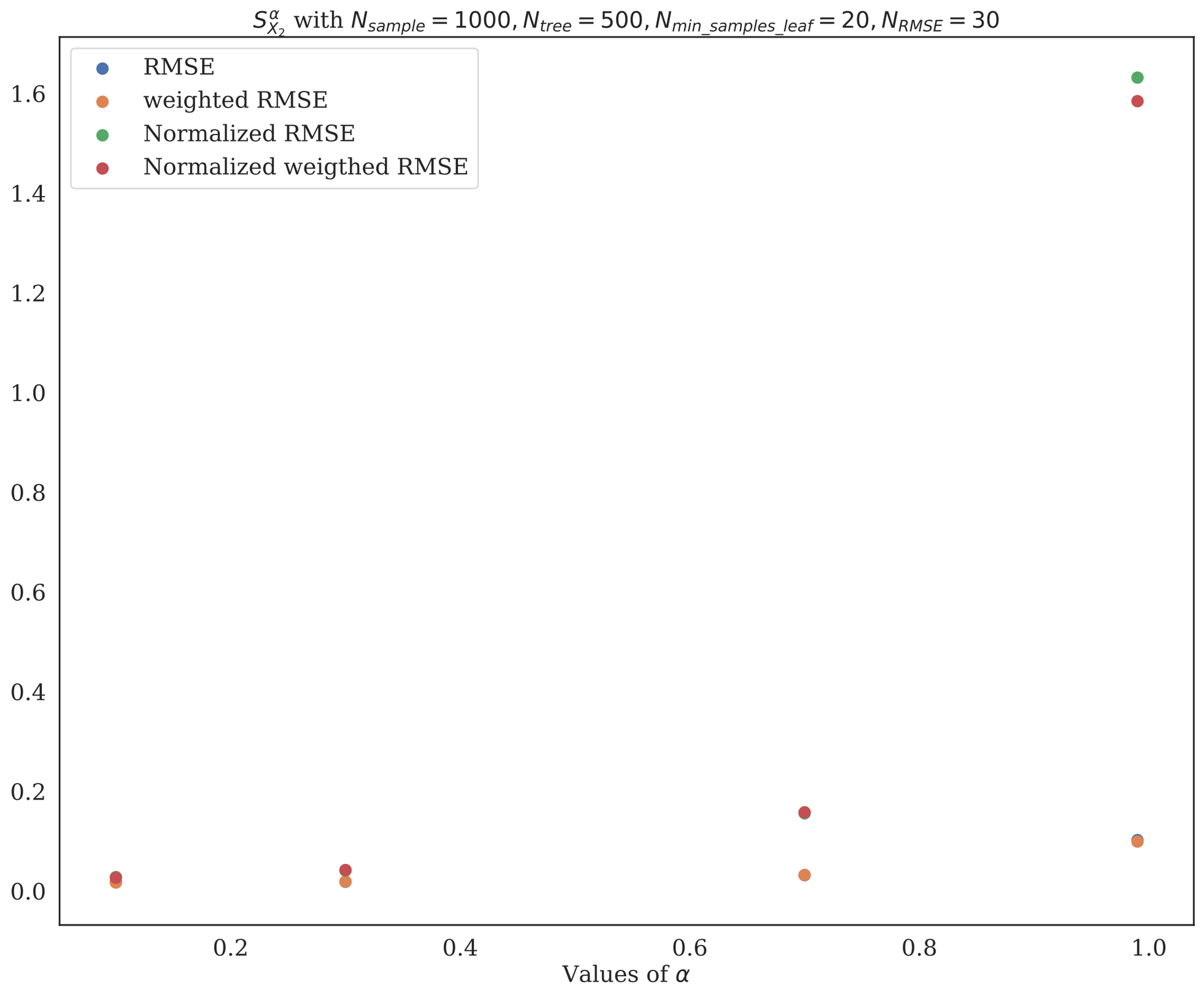

Distribution of S^{α} with $N_{sample} = 1000, N_{tree} = 500, N_{min_samples_leaf} = 20, N_{RMSE} = 30$(Weighted)
QOSA
0.0
0.2
0.4
0.6
0.8
0.1
0.3
0.7
0.99
Values of α
$S^{\alpha}_{X_1}$
$S^{\alpha}_{X_2}$
True values

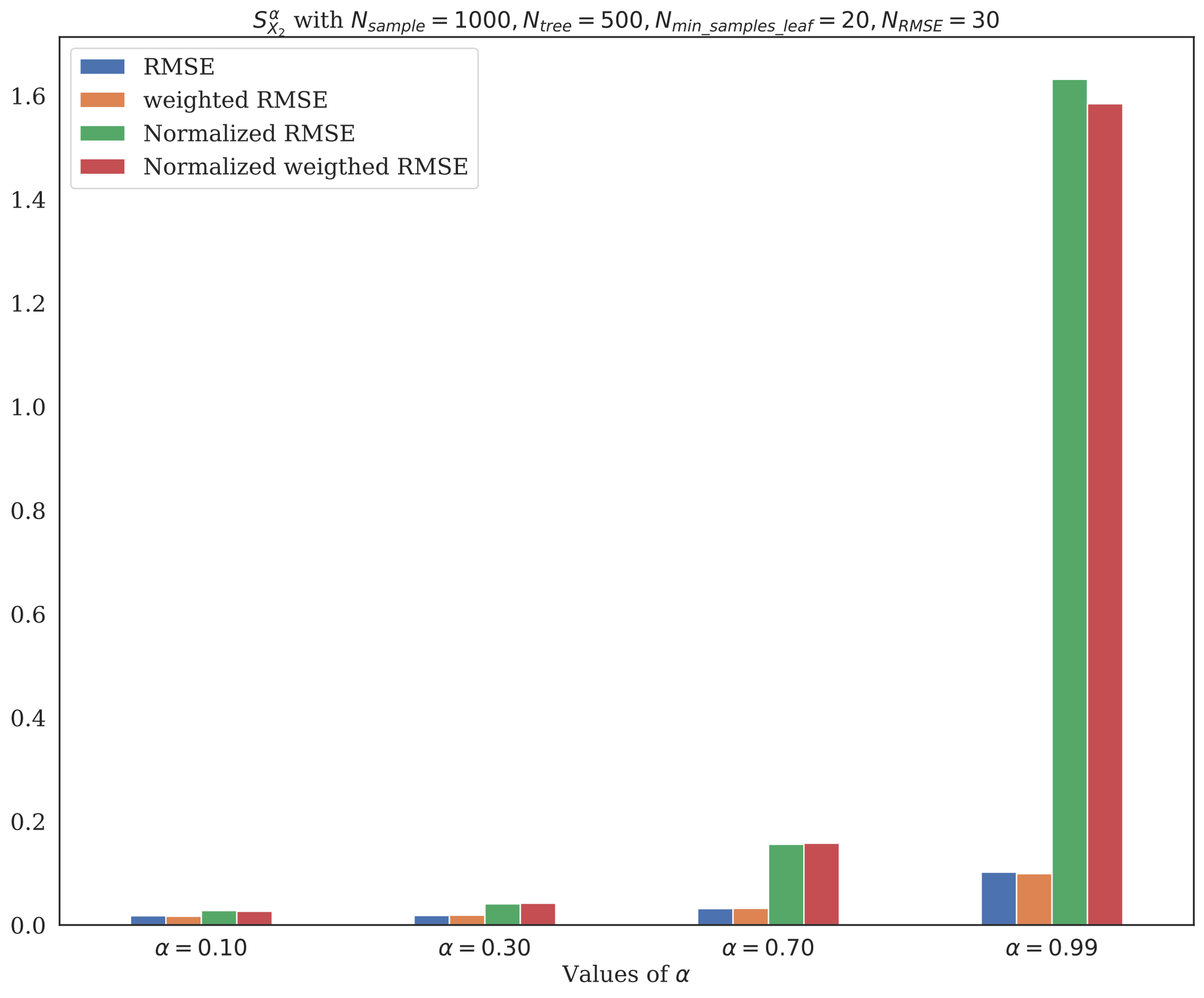

$N_{sample} = 1000, N_{tree} = 500, N_{min_samples_leaf} = 20, N_{RMSE} = 30$(Classical)
0.10
0.08
0.06
0.04
0.02
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
RMSE
Normalized RMSE
X_1
X_2
0.1
0.3
0.7
0.99
Values of α

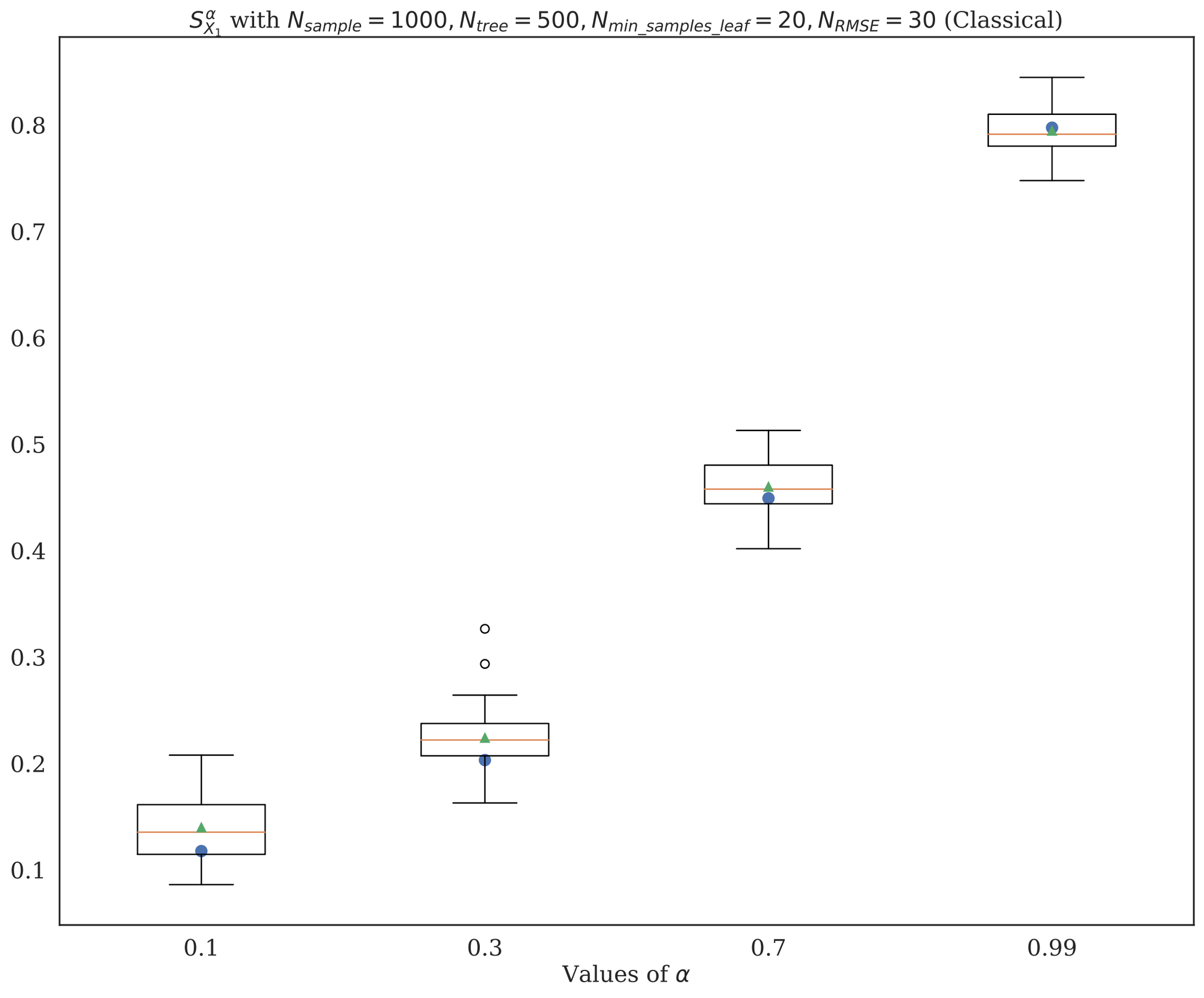

$N_{sample} = 1000, N_{tree} = 500, N_{min_samples_leaf} = 20, N_{RMSE} = 30$(Weighted)
0.10
0.08
0.06
0.04
0.02
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
RMSE
Normalized RMSE
X_1
X_2
0.1
0.3
0.7
0.99
Values of α

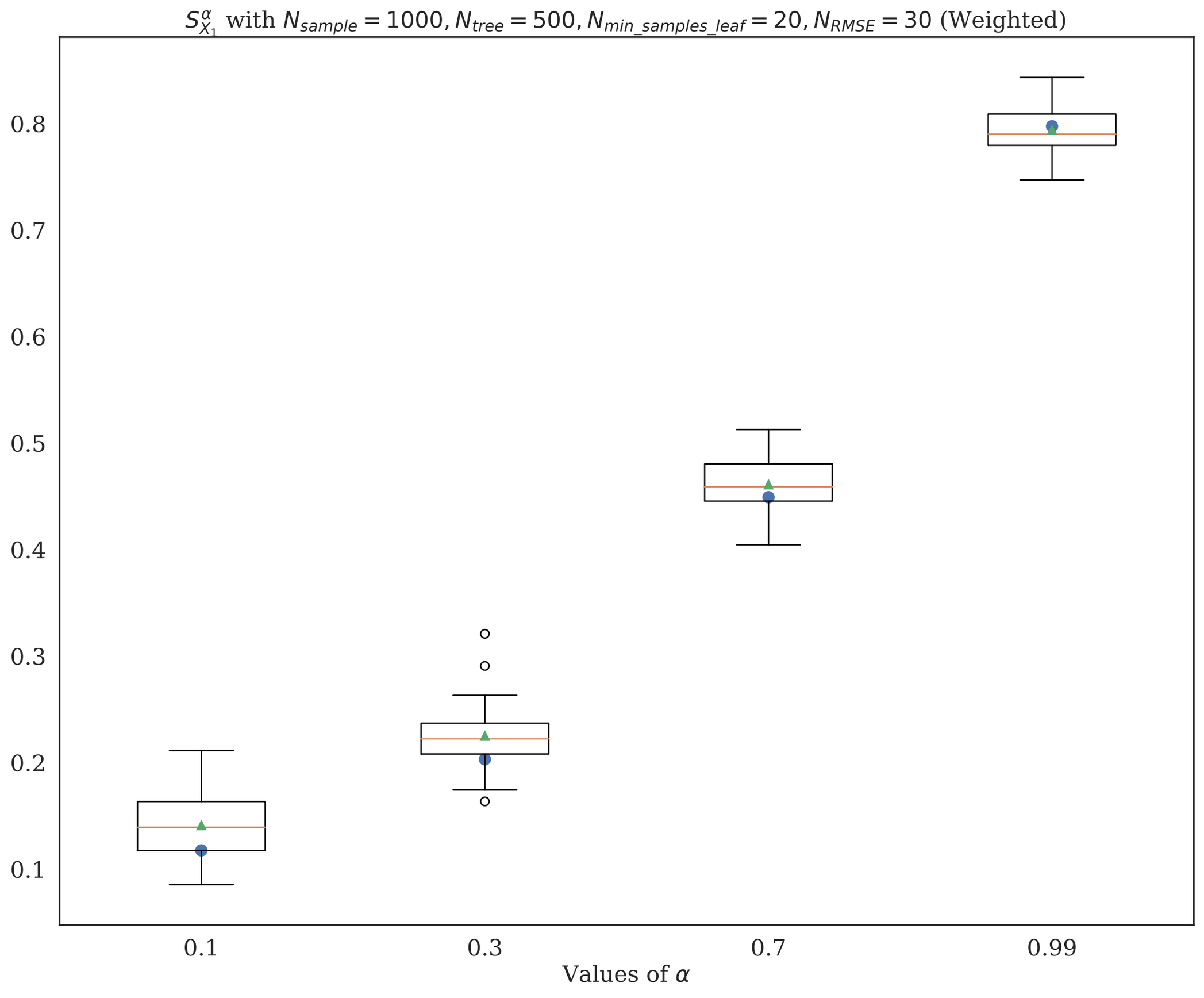

$S^{\alpha}_{X_1}$ with $N_{sample} = 1000, N_{tree} = 500, N_{min_samples_leaf} = 20, N_{RMSE} = 30$
RMSE
weighted RMSE
Normalized RMSE
Normalized weigthed RMSE
0.30
0.25
0.20
0.15
0.10
0.05
0.2
0.4
0.6
0.8
1.0
Values of α

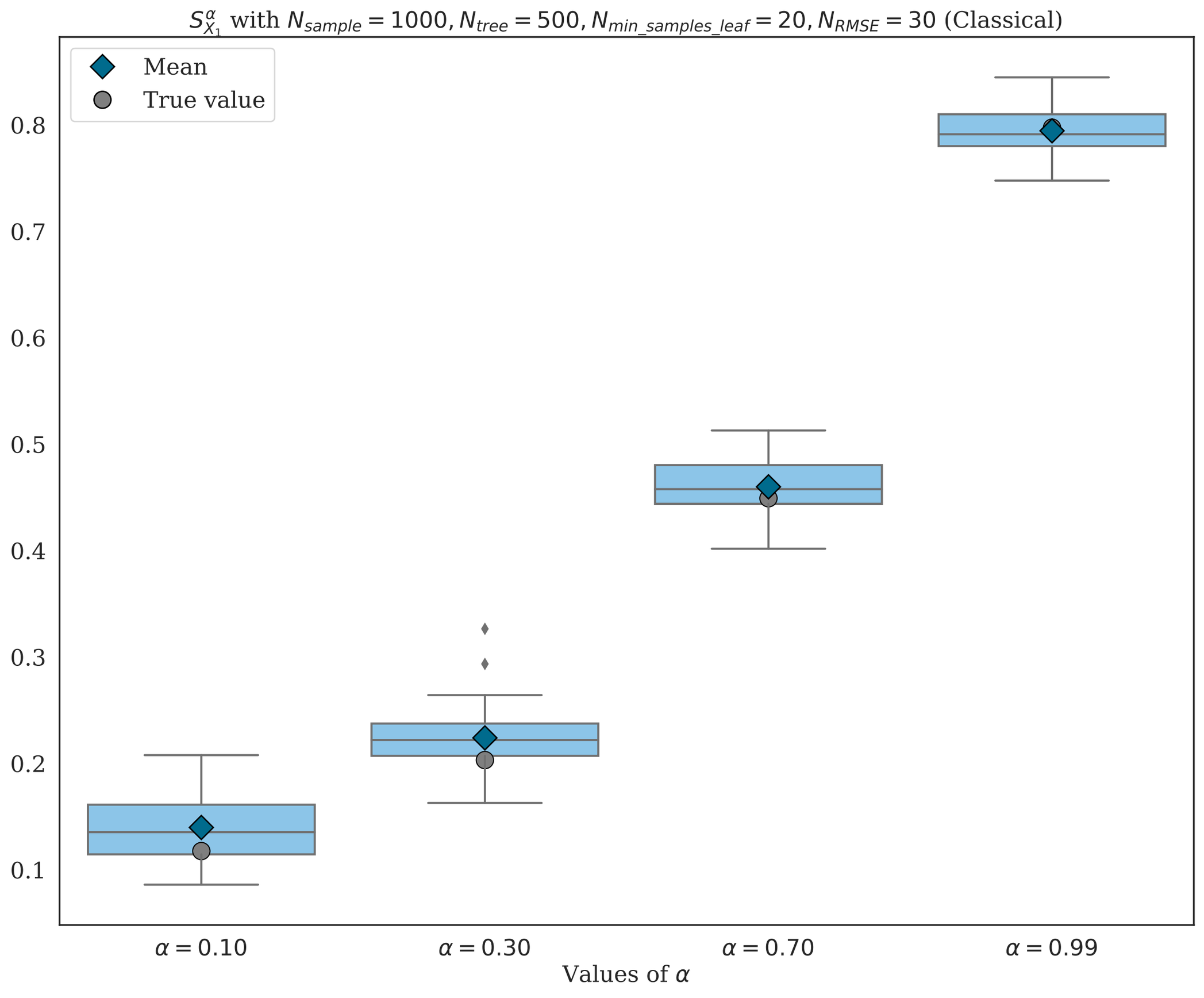

$S^{\alpha}_{X_1}$ with $N_{sample} = 1000, N_{tree} = 500, N_{min_samples_leaf} = 20, N_{RMSE} = 30$
RMSE
weighted RMSE
Normalized RMSE
Normalized weigthed RMSE
0.00
0.05
0.10
0.15
0.20
0.25
0.30
$\alpha = 0.10$
$\alpha = 0.30$
$\alpha = 0.70$
$\alpha = 0.99$
Values of α

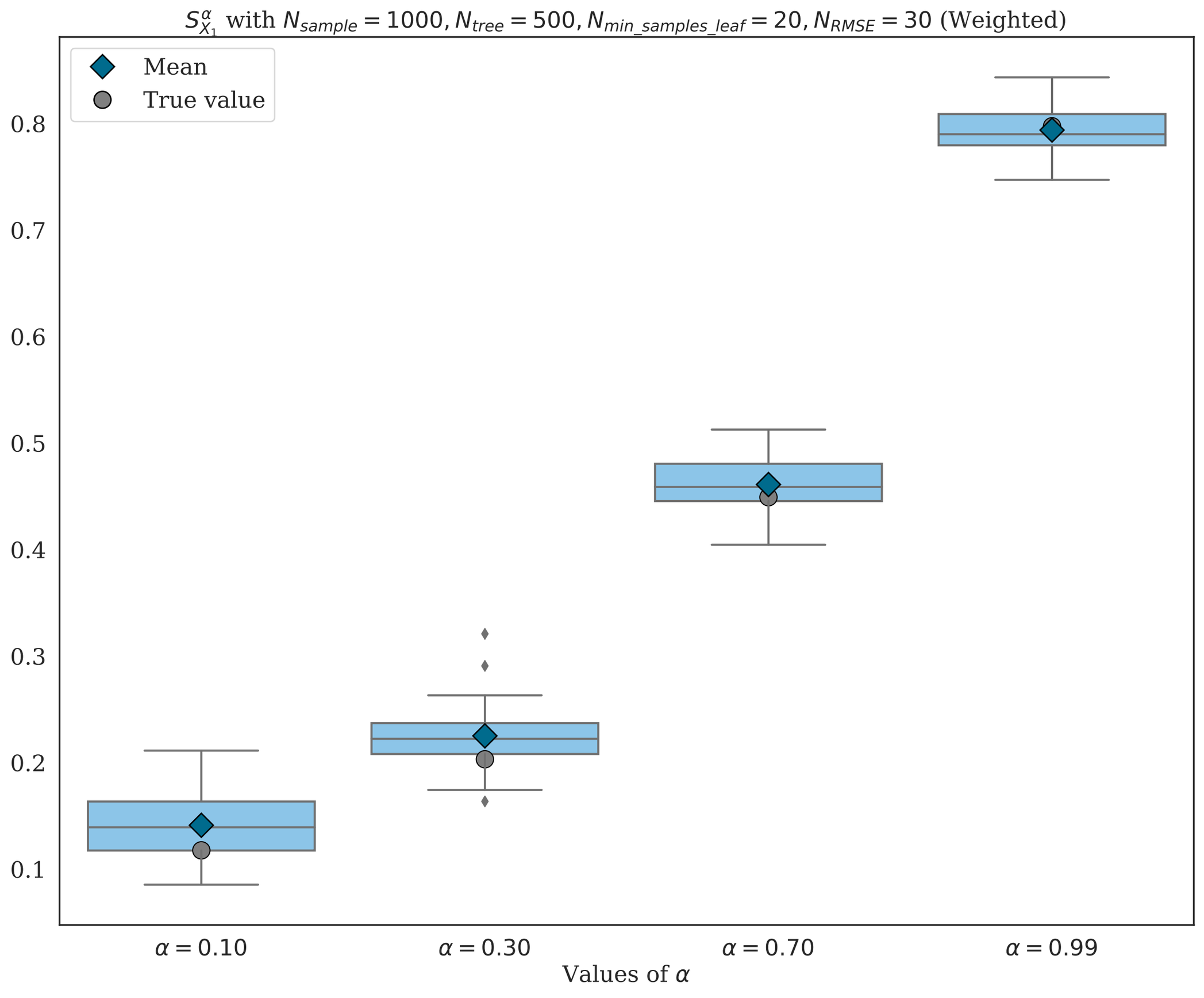

$S^{\alpha}_{X_2}$ with $N_{sample} = 1000, N_{tree} = 500, N_{min_samples_leaf} = 20, N_{RMSE} = 30$
RMSE
weighted RMSE
Normalized RMSE
Normalized weigthed RMSE
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0.2
0.4
0.6
0.8
1.0
Values of α

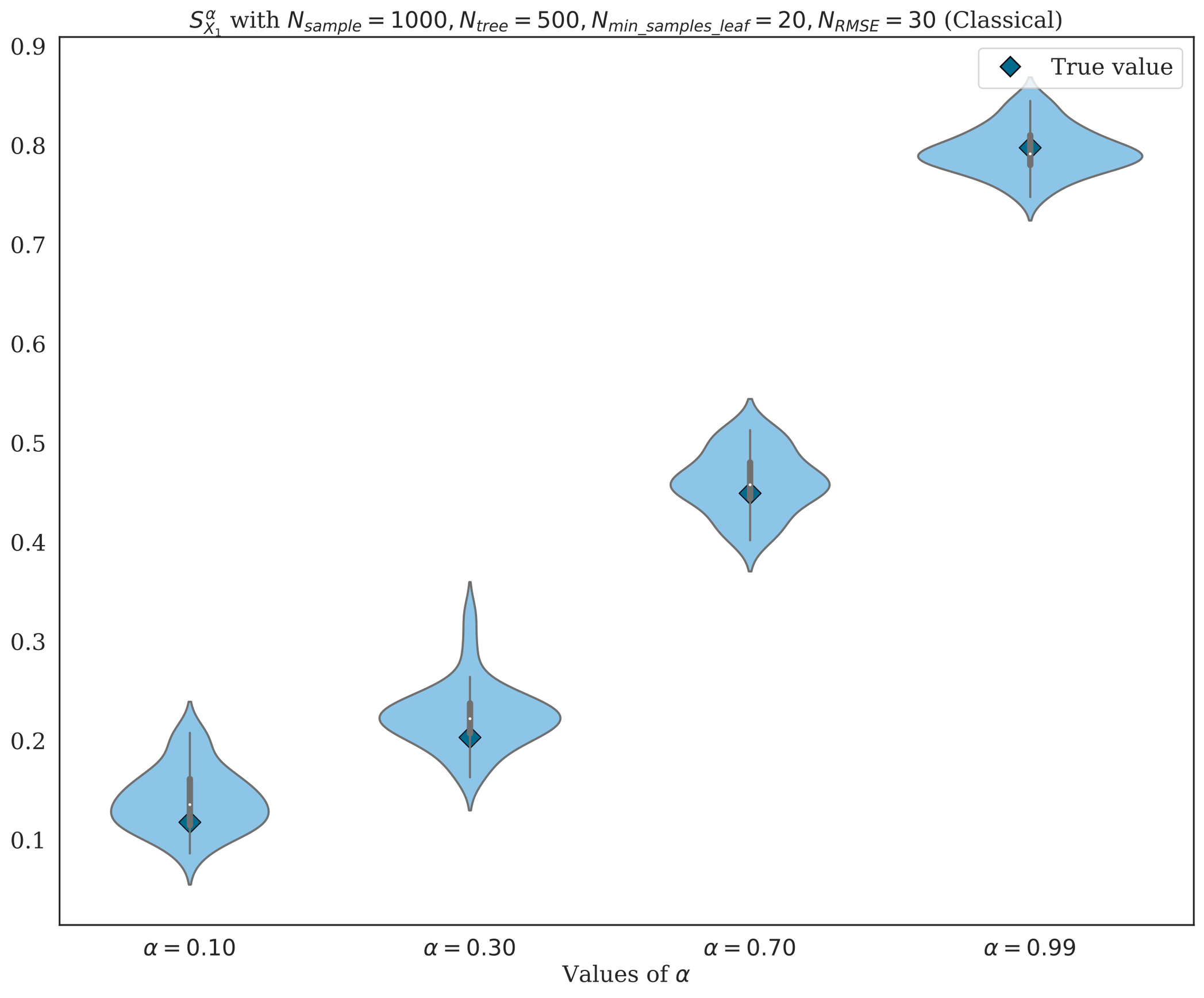

$S^{\alpha}_{X_2}$ with $N_{sample} = 1000, N_{tree} = 500, N_{min_samples_leaf} = 20, N_{RMSE} = 30$
RMSE
weighted RMSE
Normalized RMSE
Normalized weigthed RMSE
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
$\alpha = 0.10$
$\alpha = 0.30$
$\alpha = 0.70$
$\alpha = 0.99$
Values of α

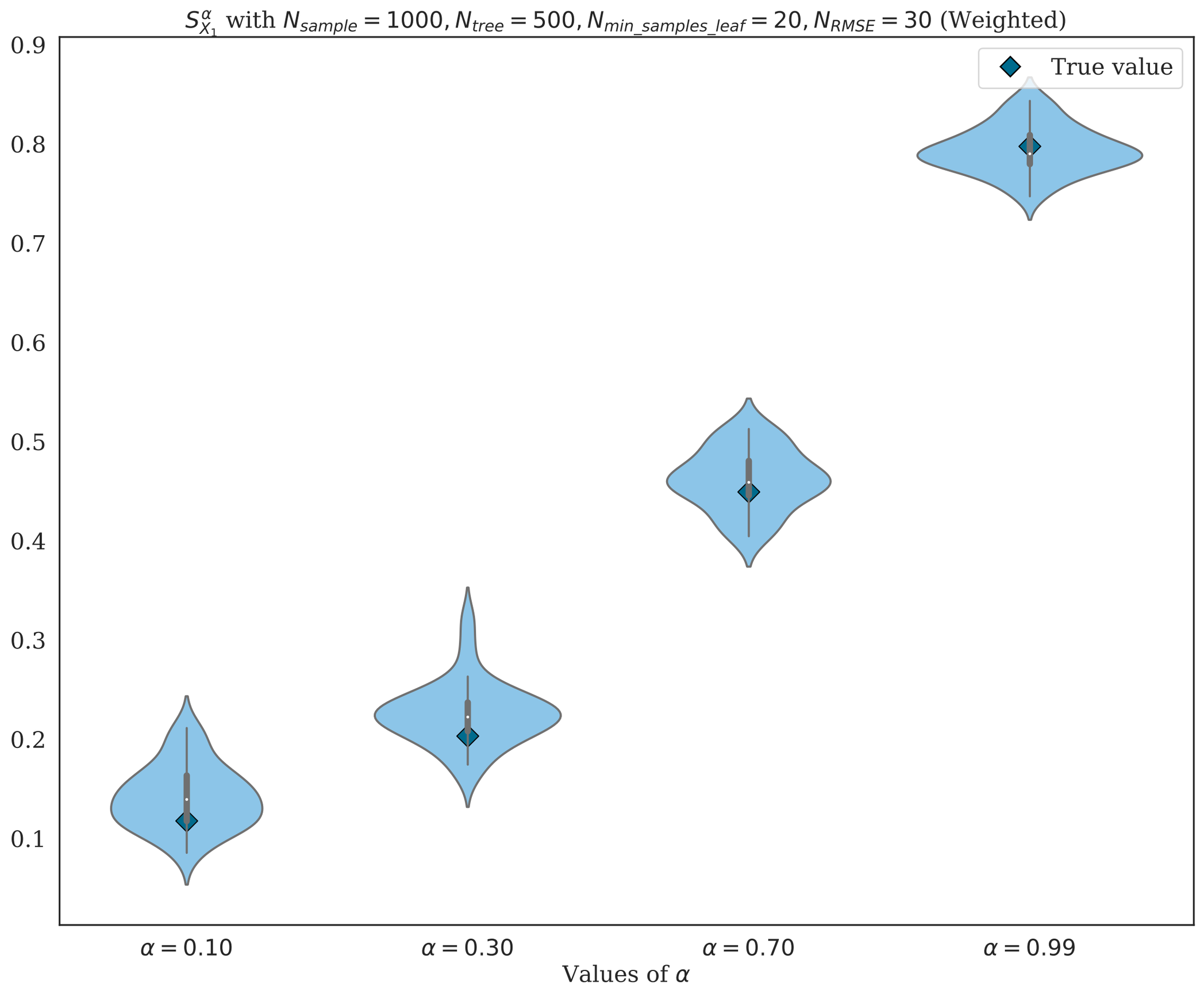

$S_{X_1}^{\alpha}$ with $N_{sample} = 1000, N_{tree} = 500, N_{min_samples_leaf} = 20, N_{RMSE} = 30$ (Classical)
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.1
0.3
0.7
0.99
Values of α

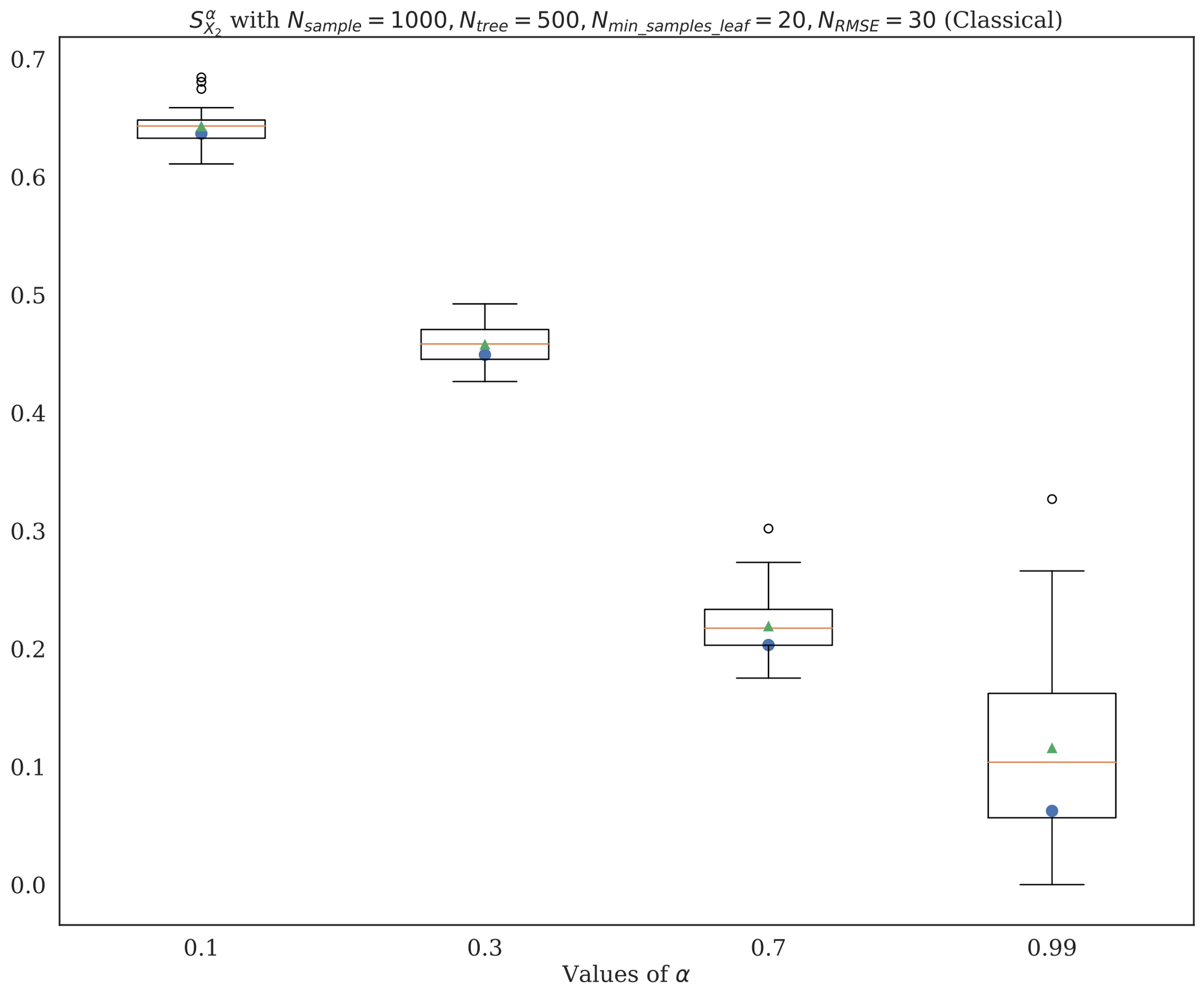

$S^{\alpha}_{X_1}$ with $N_{sample} = 1000, N_{tree} = 500, N_{min_samples_leaf} = 20, N_{RMSE} = 30$ (Weighted)
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.1
0.3
0.7
0.99
Values of α

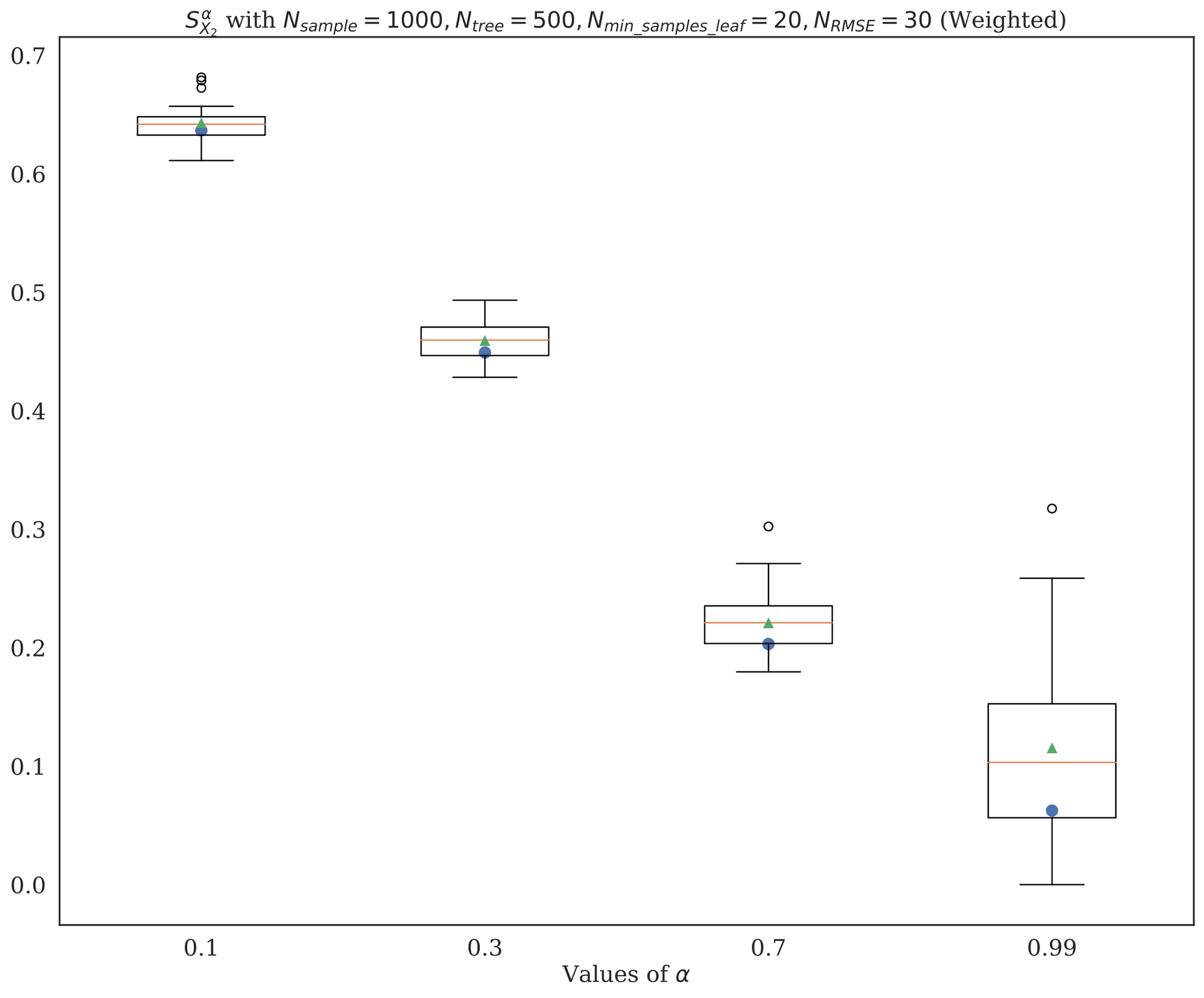

$S^{\alpha}_{X_1}$ with $N_{sample} = 1000, N_{tree} = 500, N_{min_samples_leaf} = 20, N_{RMSE} = 30$ (Classical)
Mean
True value
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
$\alpha = 0.10$
$\alpha = 0.30$
$\alpha = 0.70$
$\alpha = 0.99$
Values of α

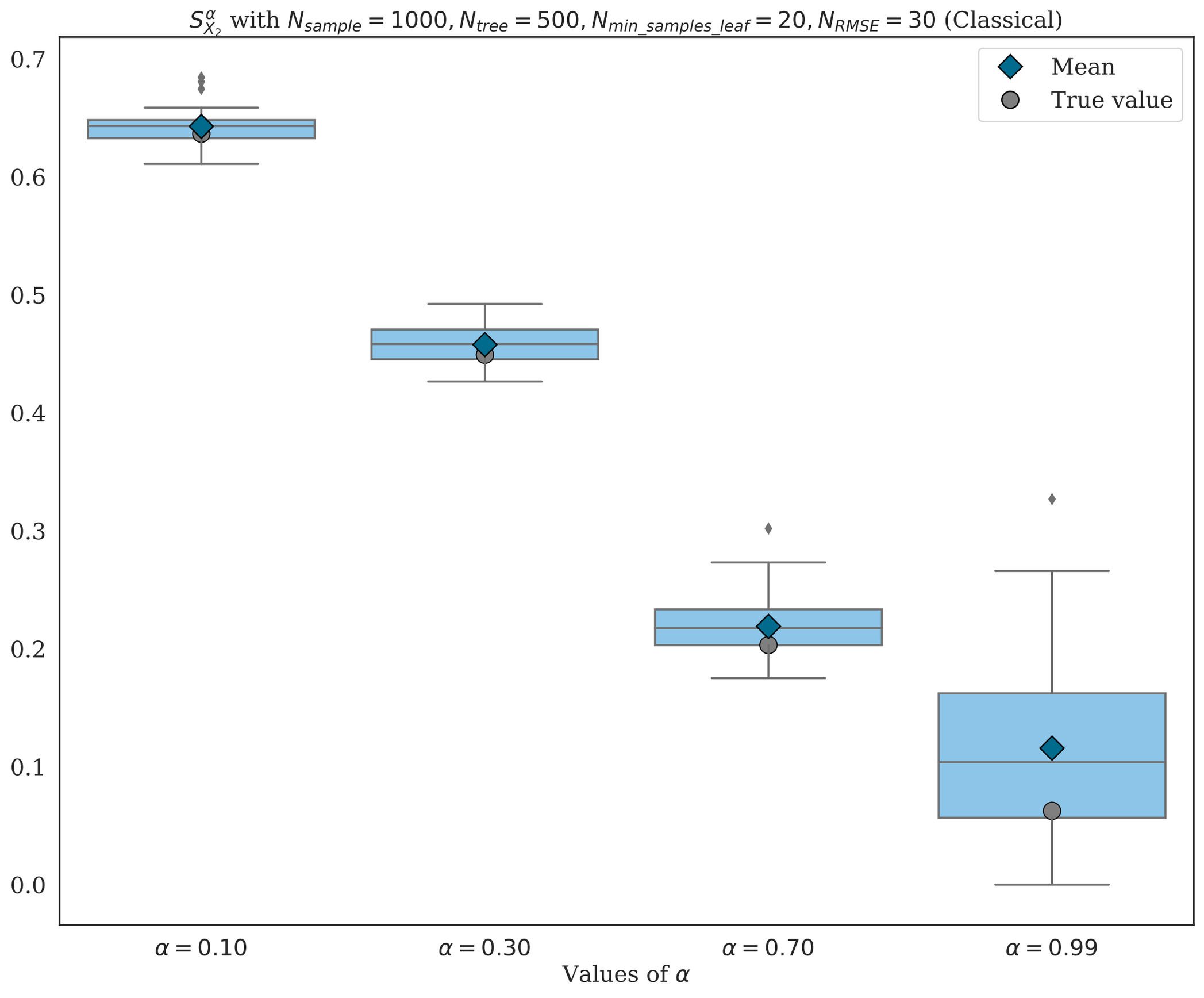

$S^{\alpha}_{X_1}$ with $N_{sample} = 1000, N_{tree} = 500, N_{min_samples_leaf} = 20, N_{RMSE} = 30$ (Weighted)
Mean
True value
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
$\alpha = 0.10$
$\alpha = 0.30$
$\alpha = 0.70$
$\alpha = 0.99$
Values of α

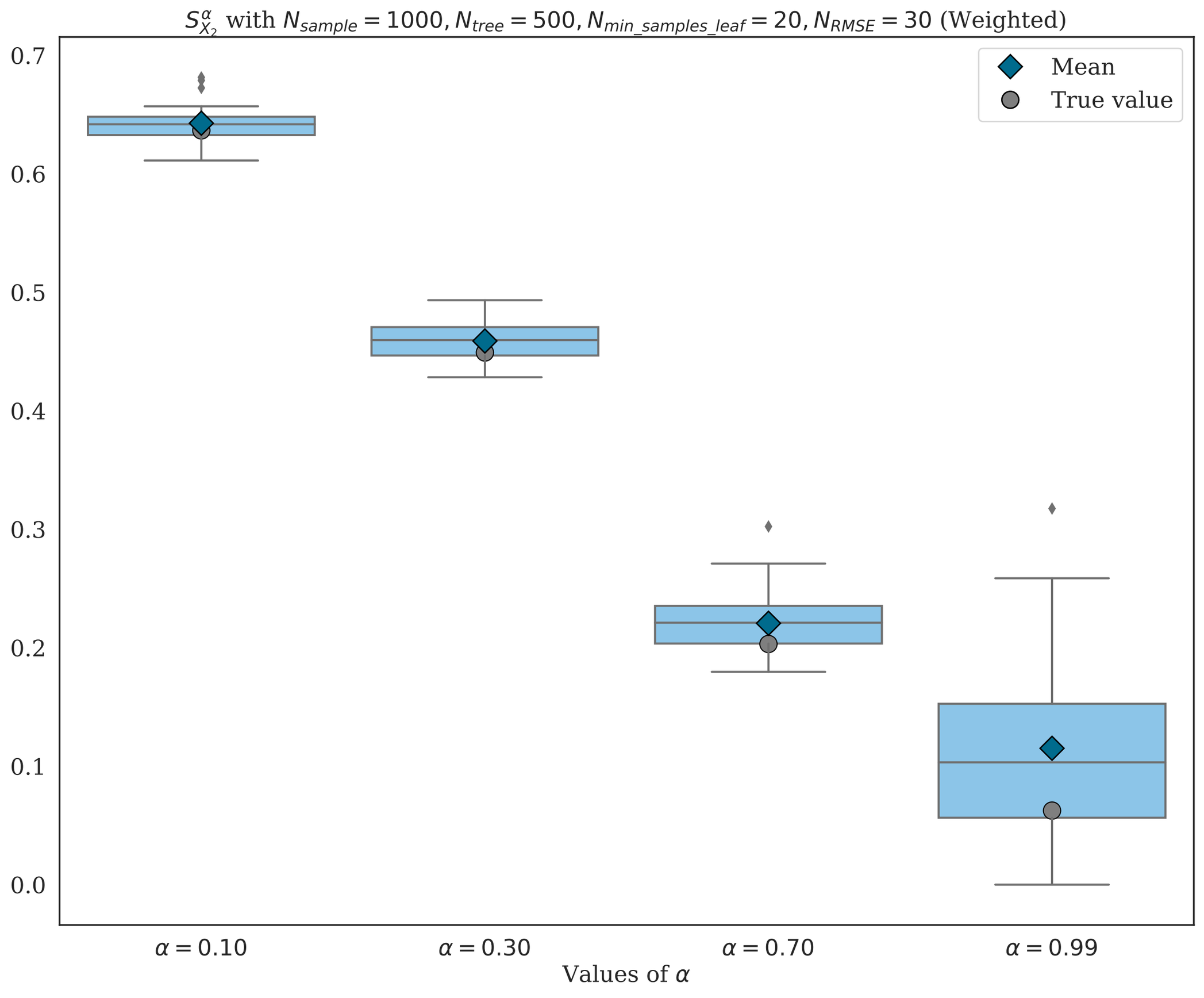

$S_{X_1}^{\alpha}$ with $N_{sample} = 1000, N_{tree} = 500, N_{min_samples_leaf} = 20, N_{RMSE} = 30$ (Classical)
True value
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
$\alpha = 0.10$
$\alpha = 0.30$
$\alpha = 0.70$
$\alpha = 0.99$
Values of α

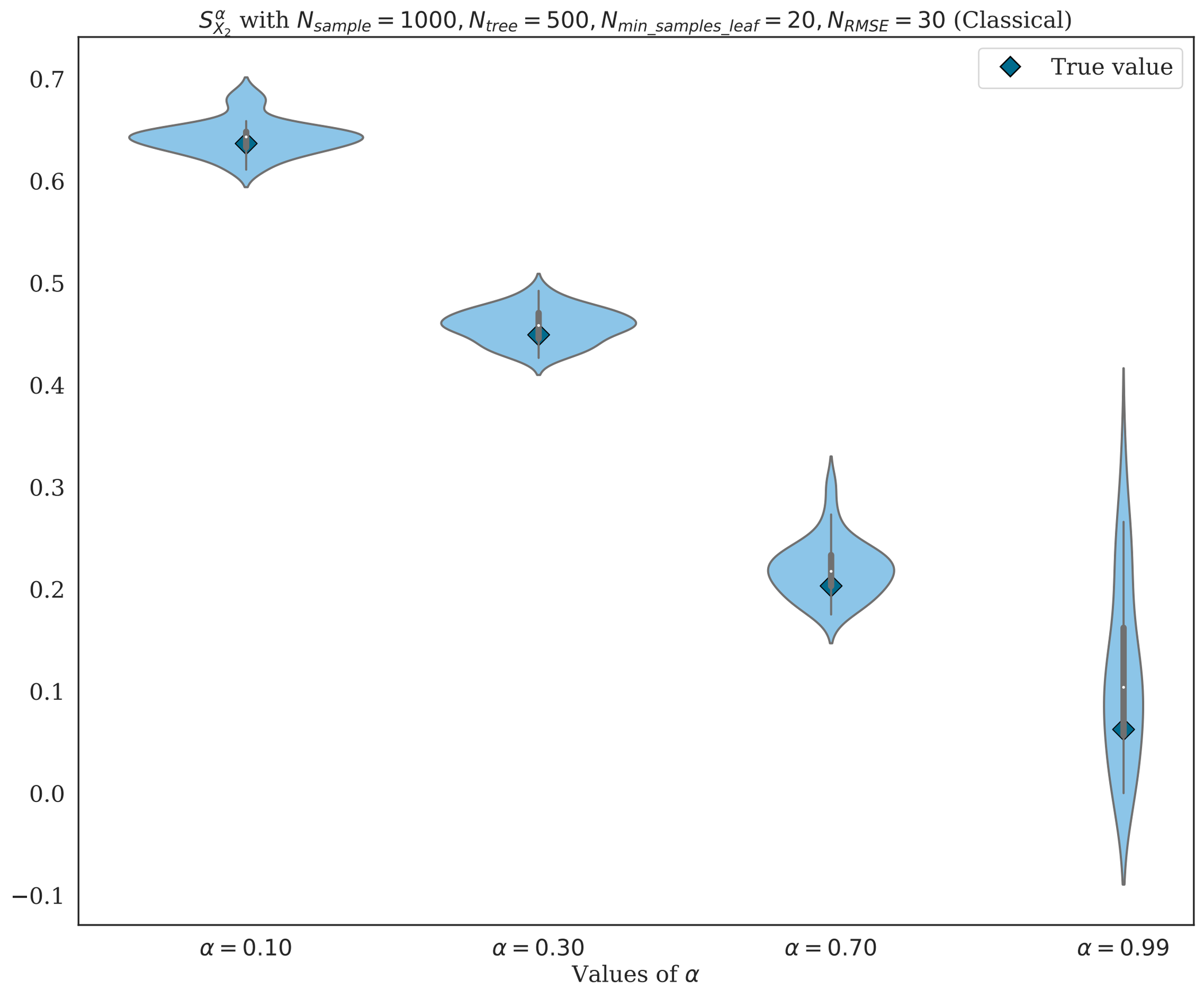

$S^{\alpha}_{X_1}$ with $N_{sample} = 1000, N_{tree} = 500, N_{min_samples_leaf} = 20, N_{RMSE} = 30$ (Weighted)
True value
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
$\alpha = 0.10$
$\alpha = 0.30$
$\alpha = 0.70$
$\alpha = 0.99$
Values of α

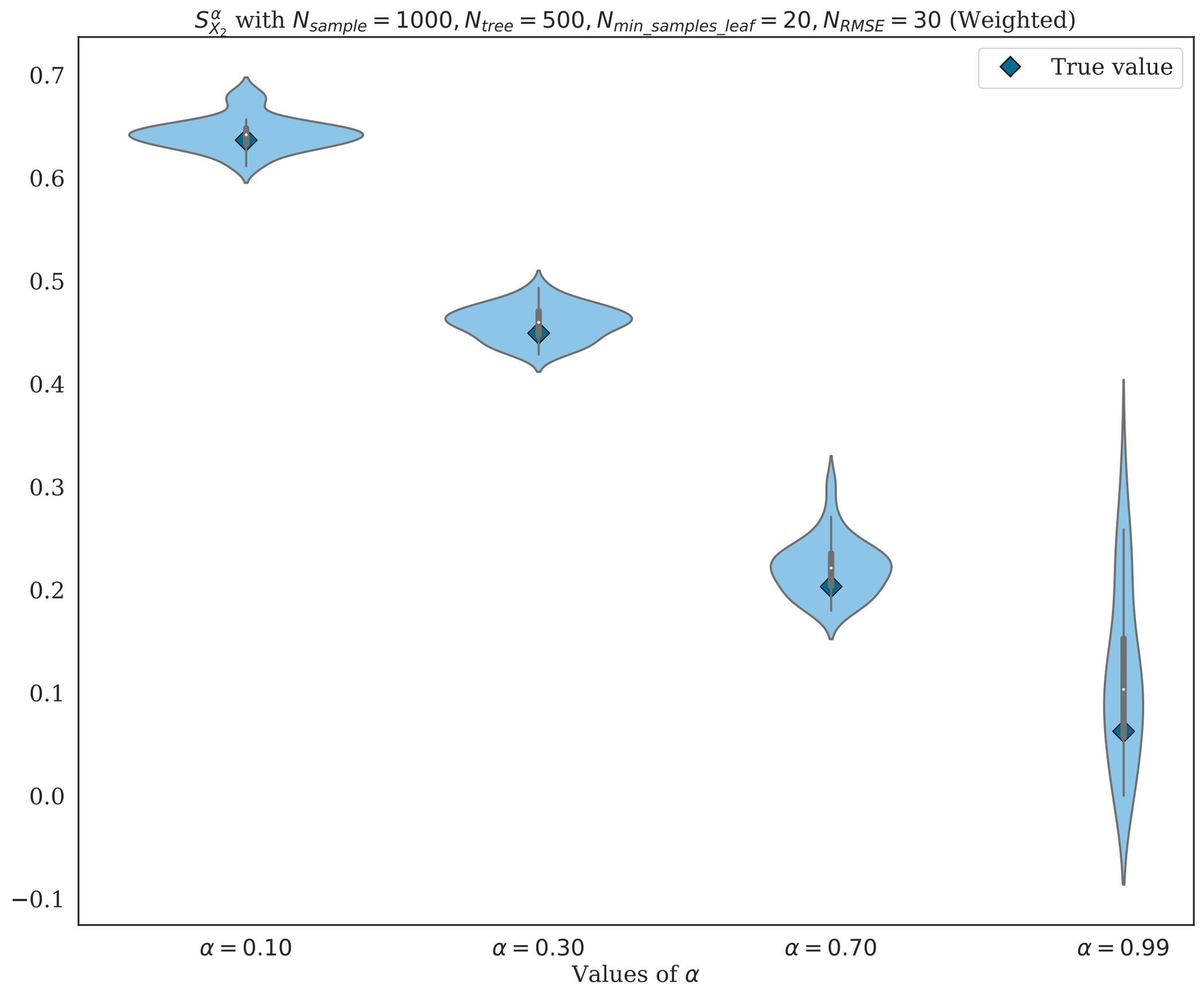

$S^{\alpha}_{X_2}$ with $N_{sample} = 1000, N_{tree} = 500, N_{min_samples_leaf} = 20, N_{RMSE} = 30$ (Classical)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
0.1
0.3
0.7
0.99
Values of α

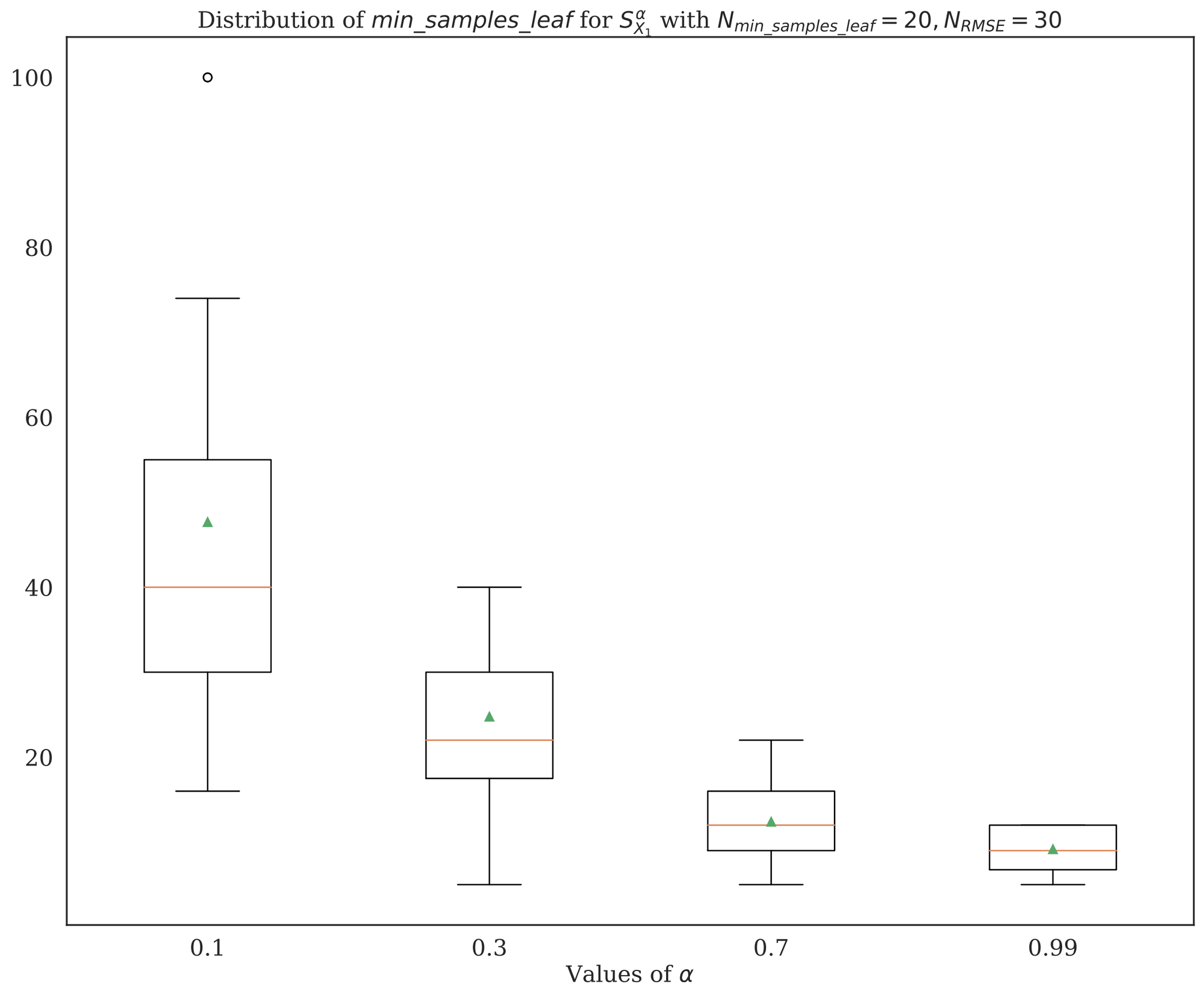

$S^{\alpha}_{X_2}$ with $N_{sample} = 1000, N_{tree} = 500, N_{min_samples_leaf} = 20, N_{RMSE} = 30$ (Weighted)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
0.1
0.3
0.7
0.99
Values of α

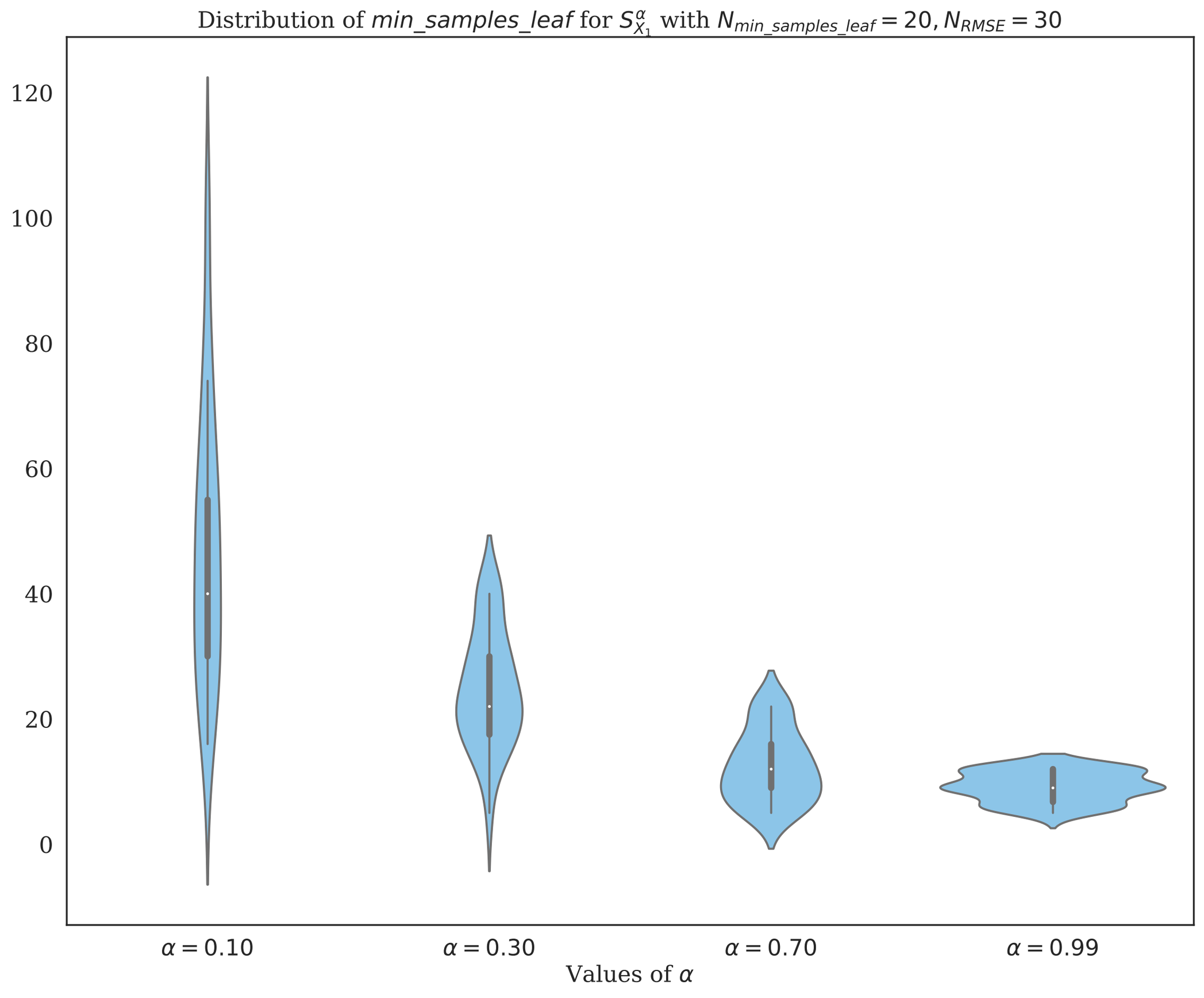

$S^{\alpha}_{X_2}$ with $N_{sample} = 1000, N_{tree} = 500, N_{min_samples_leaf} = 20, N_{RMSE} = 30$ (Classical)
Mean
True value
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
$\alpha = 0.10$
$\alpha = 0.30$
$\alpha = 0.70$
$\alpha = 0.99$
Values of α

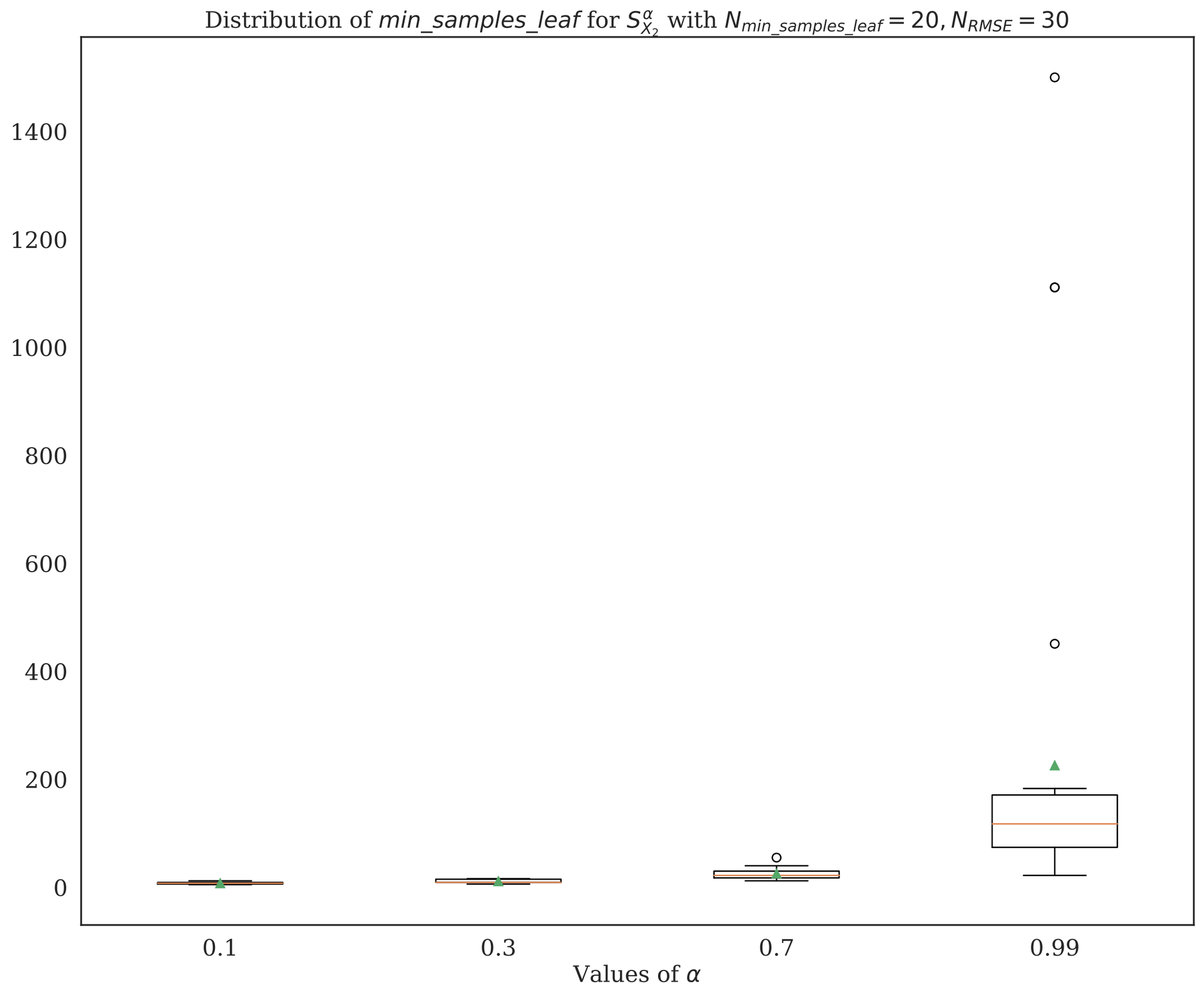

$S^{\alpha}_{X_2}$ with $N_{sample} = 1000, N_{tree} = 500, N_{min_samples_leaf} = 20, N_{RMSE} = 30$ (Weighted)
Mean
True value
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
$\alpha = 0.10$
$\alpha = 0.30$
$\alpha = 0.70$
$\alpha = 0.99$
Values of α

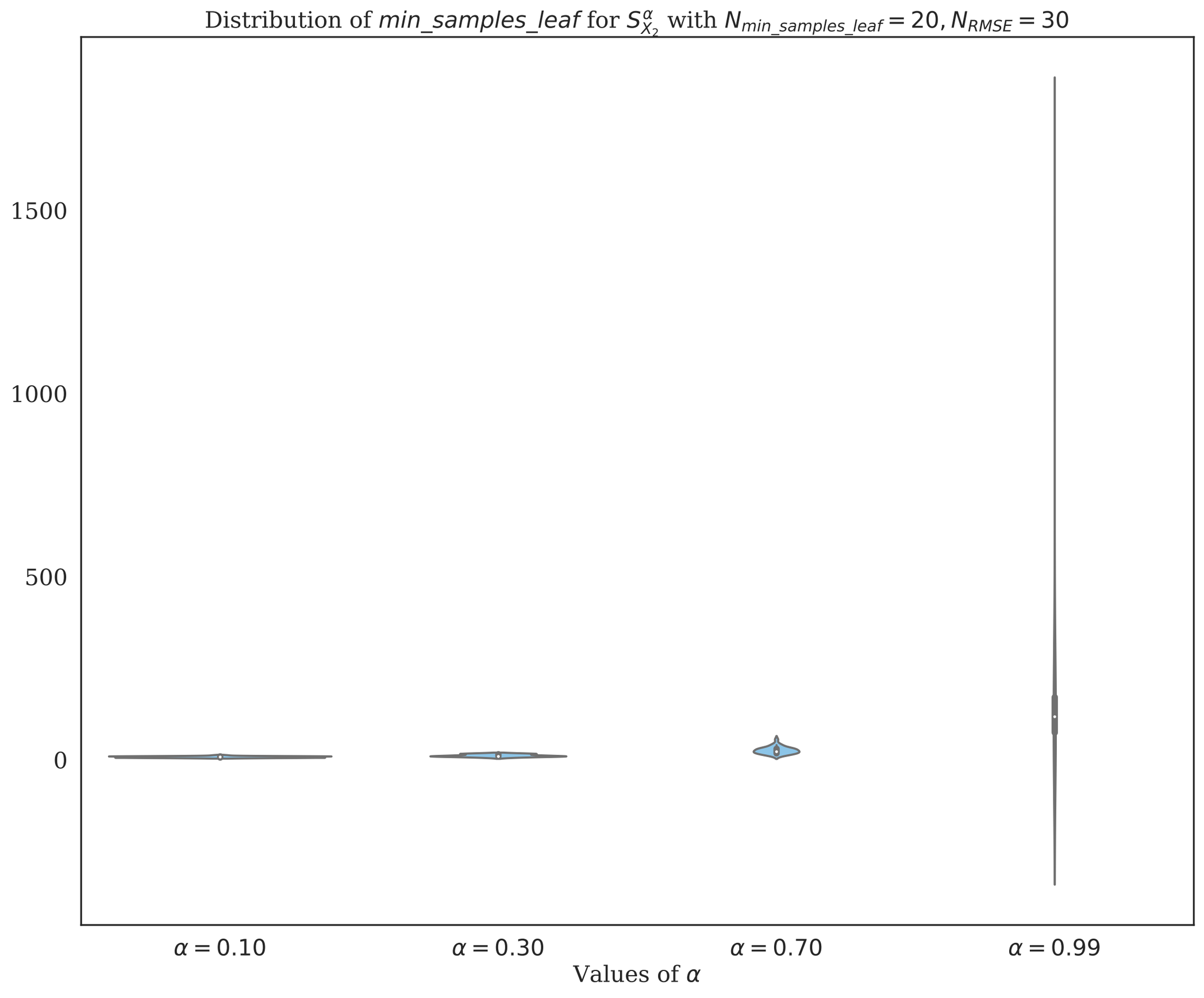

$S^{\alpha}_{X_2}$ with $N_{sample} = 1000, N_{tree} = 500, N_{min_samples_leaf} = 20, N_{RMSE} = 30$ (Classical)
True value
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
$\alpha = 0.10$
$\alpha = 0.30$
$\alpha = 0.70$
$\alpha = 0.99$
Values of α


$S^{\alpha}_{X_2}$ with $N_{sample} = 1000, N_{tree} = 500, N_{min_samples_leaf} = 20, N_{RMSE} = 30$ (Weighted)
True value
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
$\alpha = 0.10$
$\alpha = 0.30$
$\alpha = 0.70$
$\alpha = 0.99$
Values of α


Distribution of min_samples_leaf for $S^{\alpha}_{X_1}$ with $N_{min_samples_leaf} = 20, N_{RMSE} = 30$
100
80
60
40
20
0.1
0.3
0.7
0.99
Values of α


Distribution of min_samples_leaf for $S_{X_1}^{\alpha}$ with $N_{min_samples_leaf} = 20, N_{RMSE} = 30$
120
100
80
60
40
20
0
$\alpha = 0.10$
$\alpha = 0.30$
$\alpha = 0.70$
$\alpha = 0.99$
Values of α


Distribution of min_samples_leaf for $S^{\alpha}_{X_2}$ with $N_{min_samples_leaf} = 20, N_{RMSE} = 30$
1400
1200
1000
800
600
400
200
0
0.1
0.3
0.7
0.99
Values of α


Distribution of min_samples_leaf for $S^{\alpha}_{X_2}$ with $N_{min_samples_leaf} = 20, N_{RMSE} = 30$
1500
1000
500
0
$\alpha = 0.10$
$\alpha = 0.30$
$\alpha = 0.70$
$\alpha = 0.99$
Values of α