

Figure 8. Distribution of score for male and female about a9a dataset by optimizing the classification accuracy subject to partial demographic parity. The interval \mathcal{I} is $[0\%, 40\%]$.

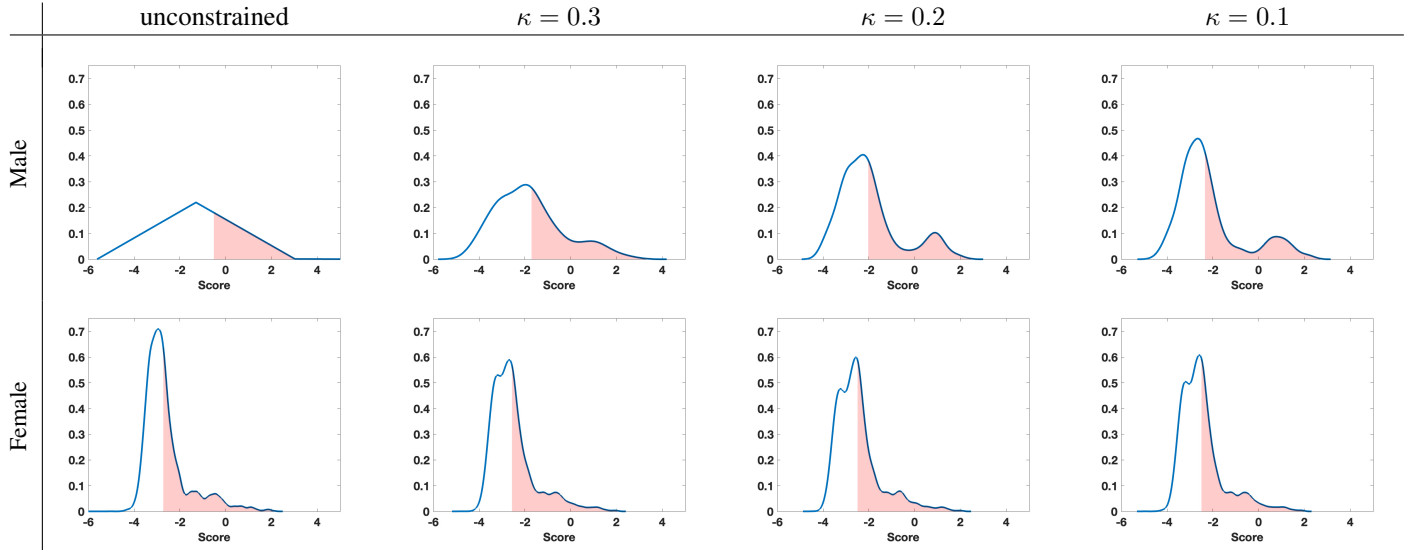


Figure 9. Distribution of score for male and female about bank dataset by optimizing the classification accuracy subject to partial demographic parity. The interval \mathcal{I} is $[0\%, 40\%]$.

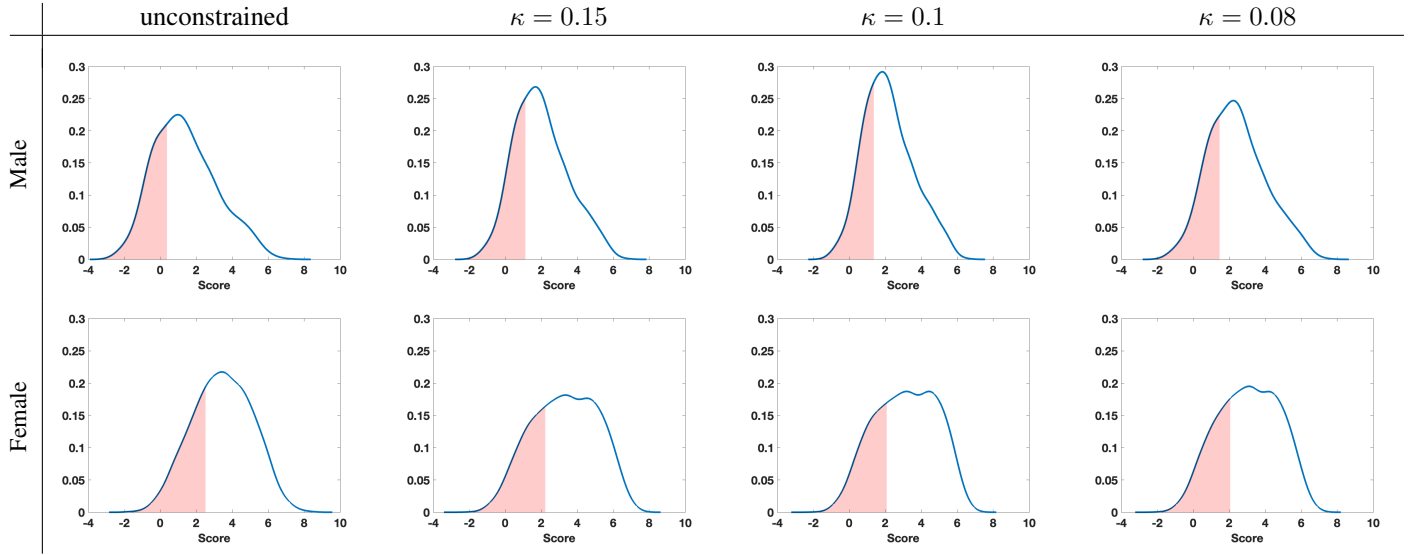


Figure 10. Distribution of score for male and female about law school dataset by optimizing the classification accuracy subject to partial demographic parity. The interval \mathcal{I} is $[70\%, 100\%]$.

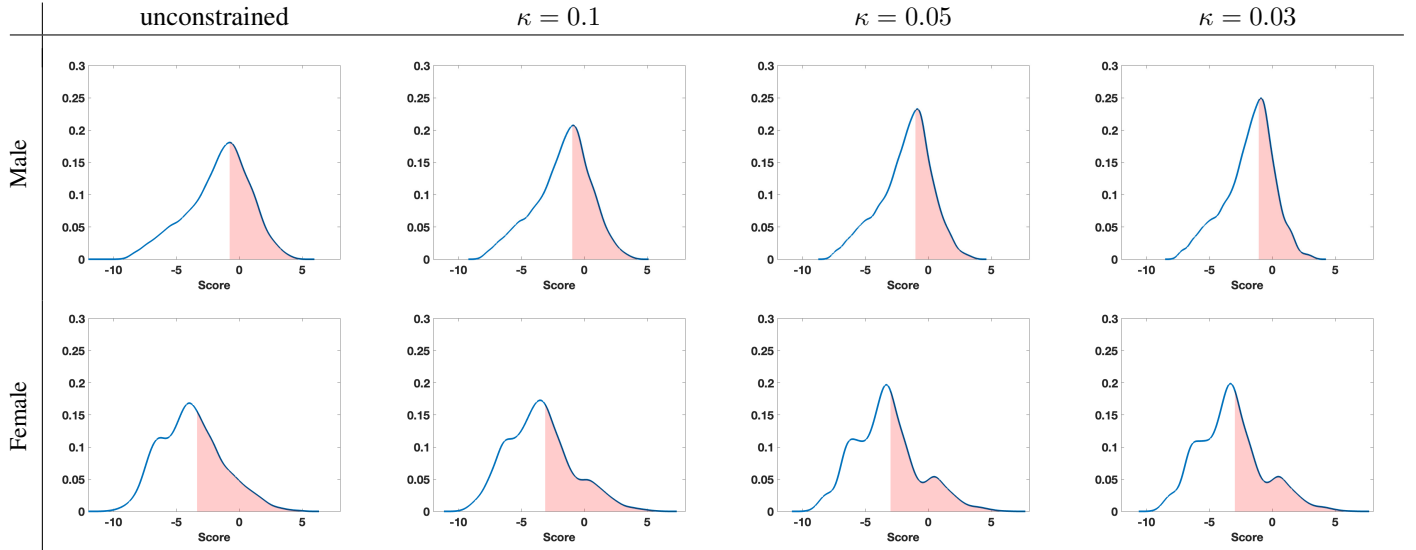


Figure 11. Distribution of score for male and female about a9a dataset by optimizing the classification accuracy subject to weak partial demographic parity. The interval \mathcal{I} is $[0\%, 40\%]$.

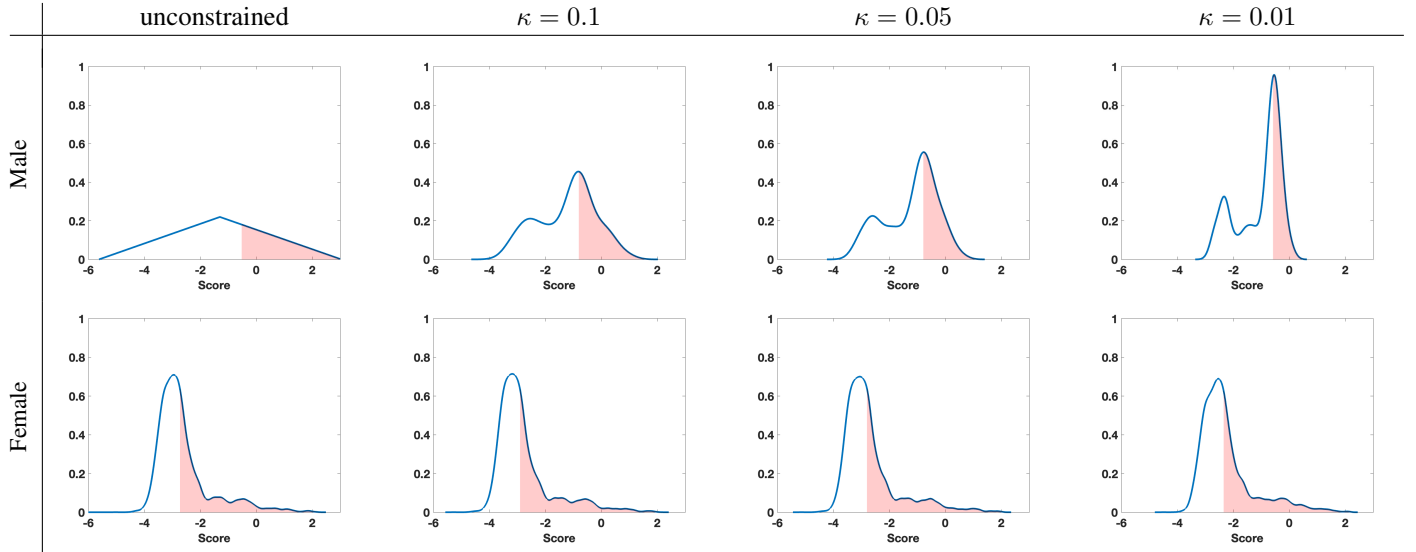


Figure 12. Distribution of score for male and female about bank dataset by optimizing the classification accuracy subject to weak partial demographic parity. The interval \mathcal{I} is $[0\%, 40\%]$.

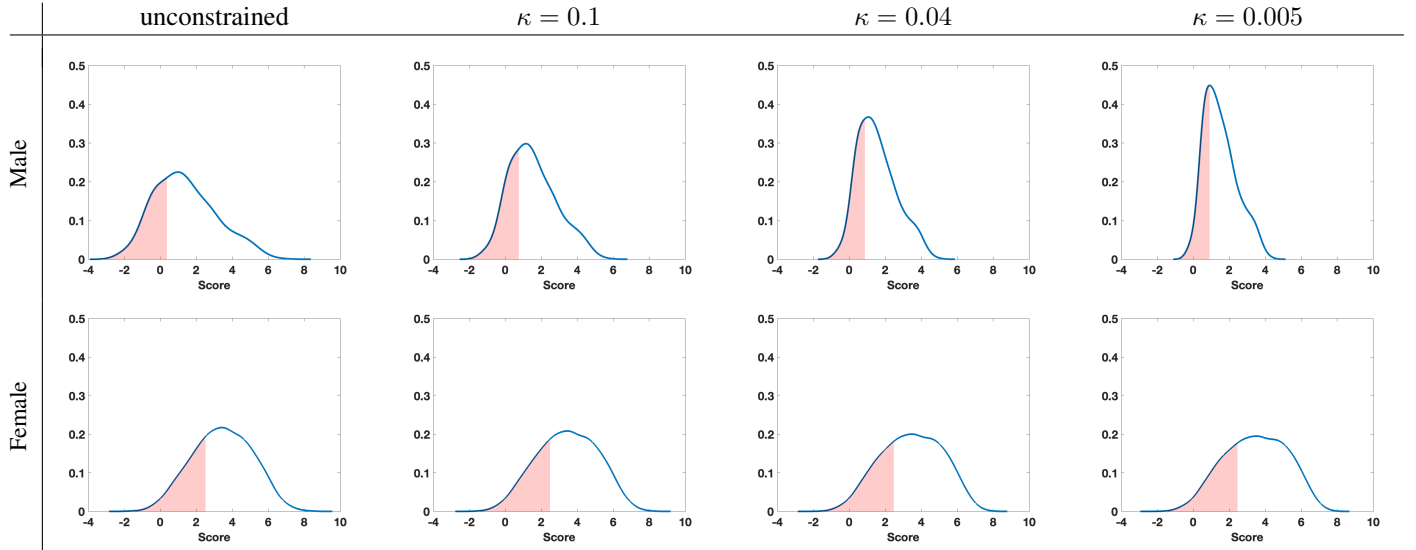


Figure 13. Distribution of score for male and female about law school dataset by optimizing the classification accuracy subject to weak partial demographic parity. The interval \mathcal{I} is $[70\%, 100\%]$.