

# **Additional Figures for: A constrained polynomial regression procedure for estimating the local False Discovery Rate**

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## **Independent datasets**

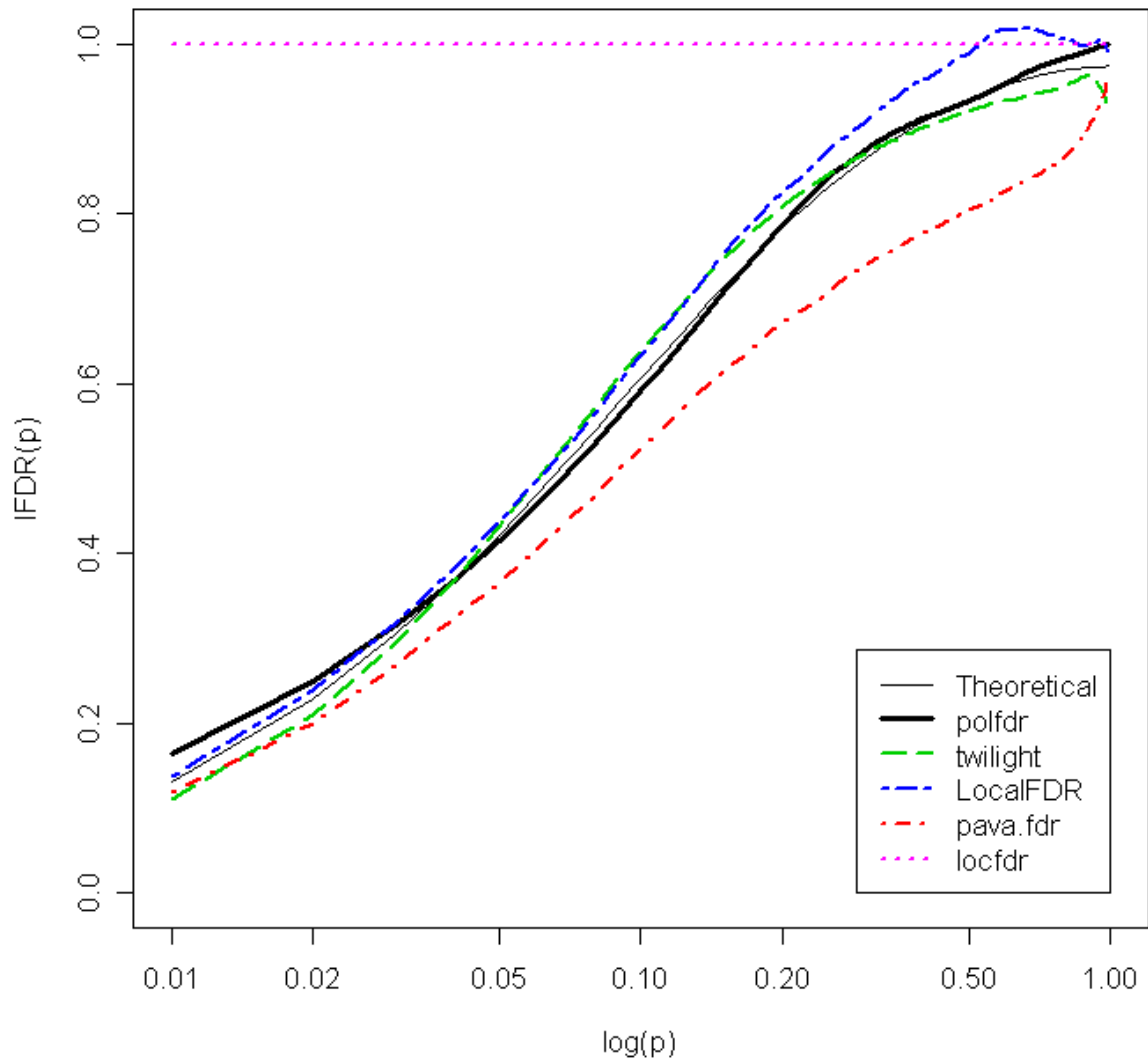


Figure 6: Expected IFDR as a function of  $p$  for each estimator with  $m=500$ ,  $\pi_0=0.6$  and configuration (a).

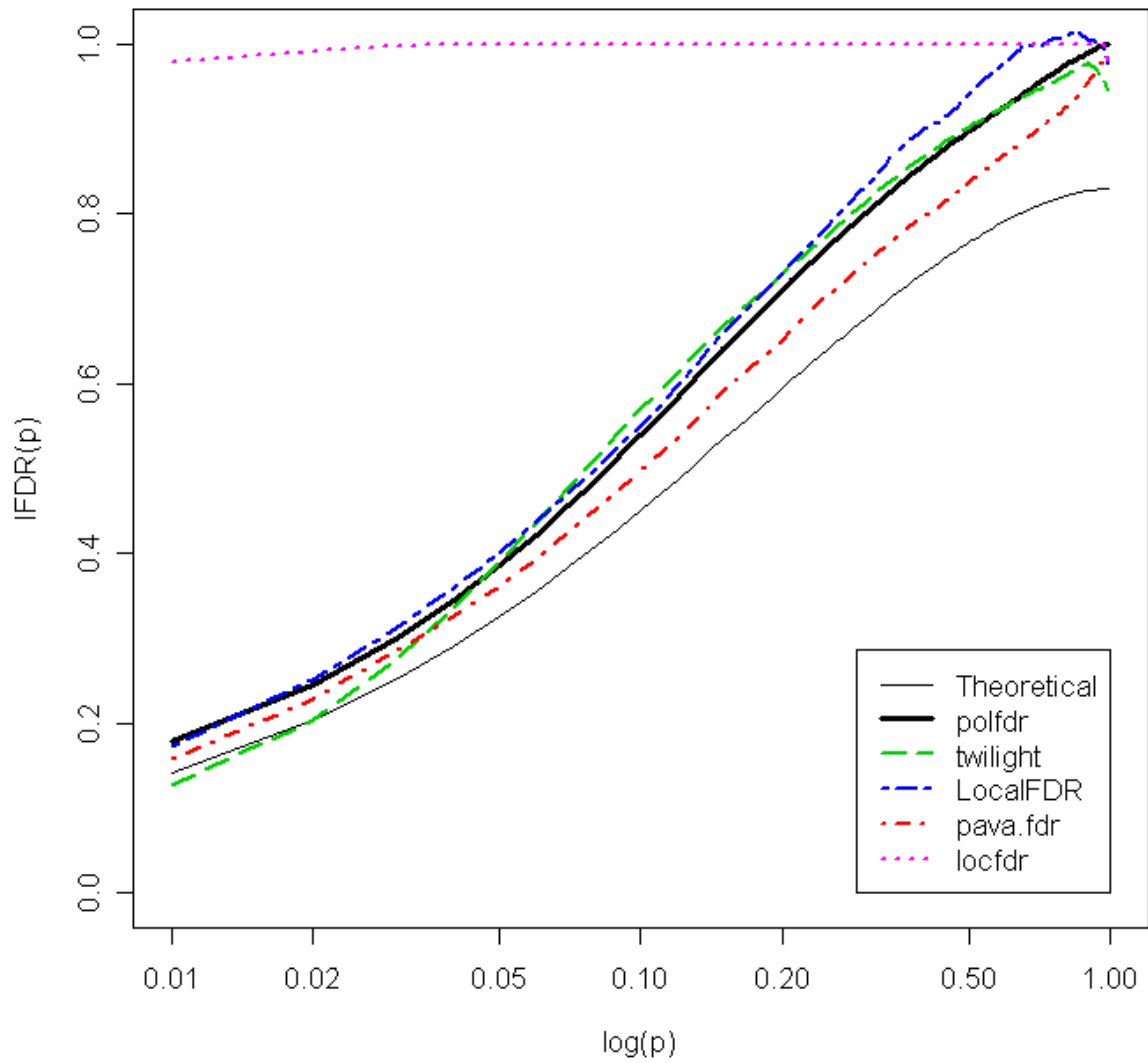


Figure 7: Expected IFDR as a function of  $p$  for each estimator with  $m=500$ ,  $\pi_0=0.6$  and configuration (b).

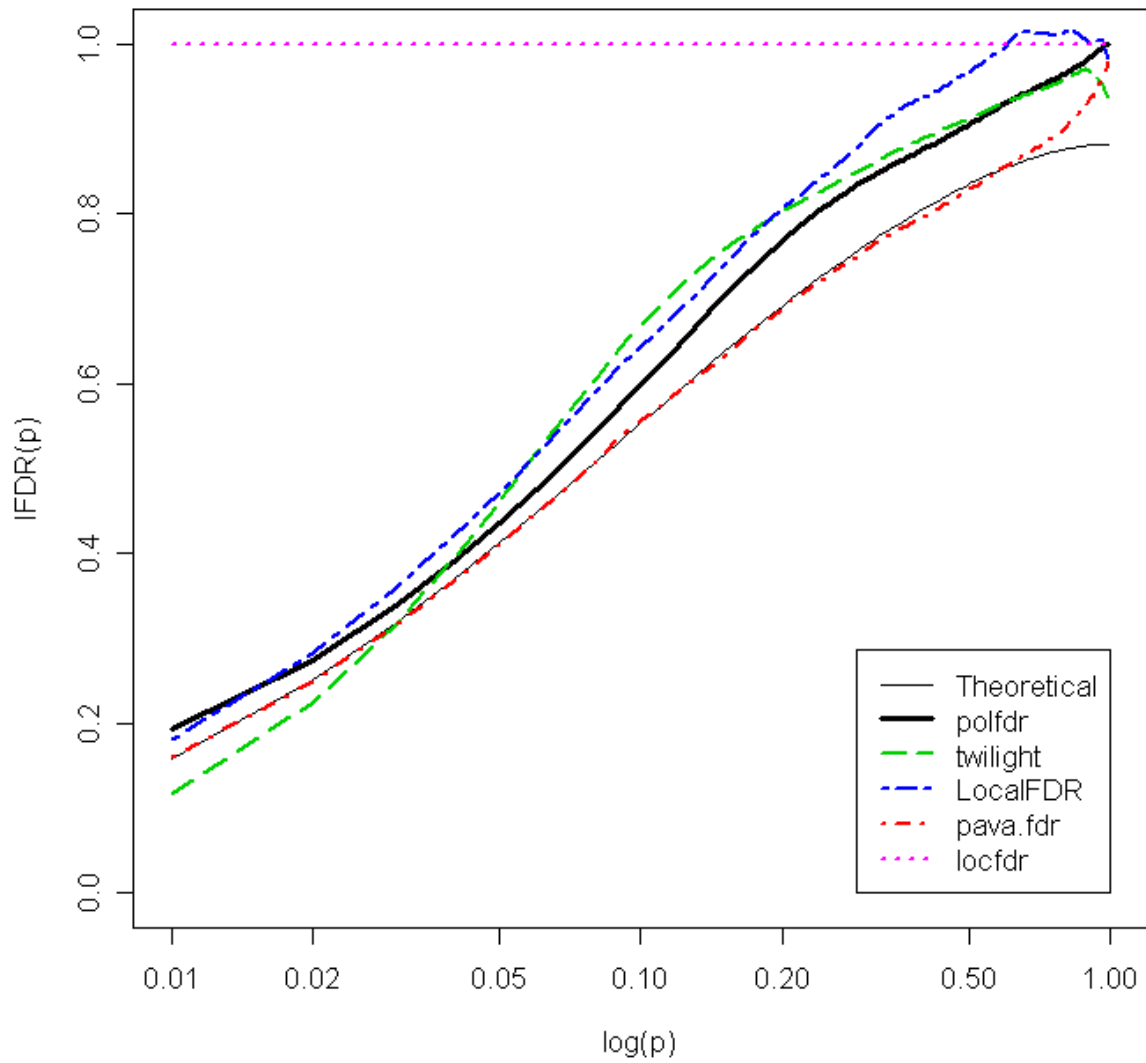


Figure 8: Expected IFDR as a function of  $p$  for each estimator with  $m=500$ ,  $\pi_0=0.6$  and configuration (c).

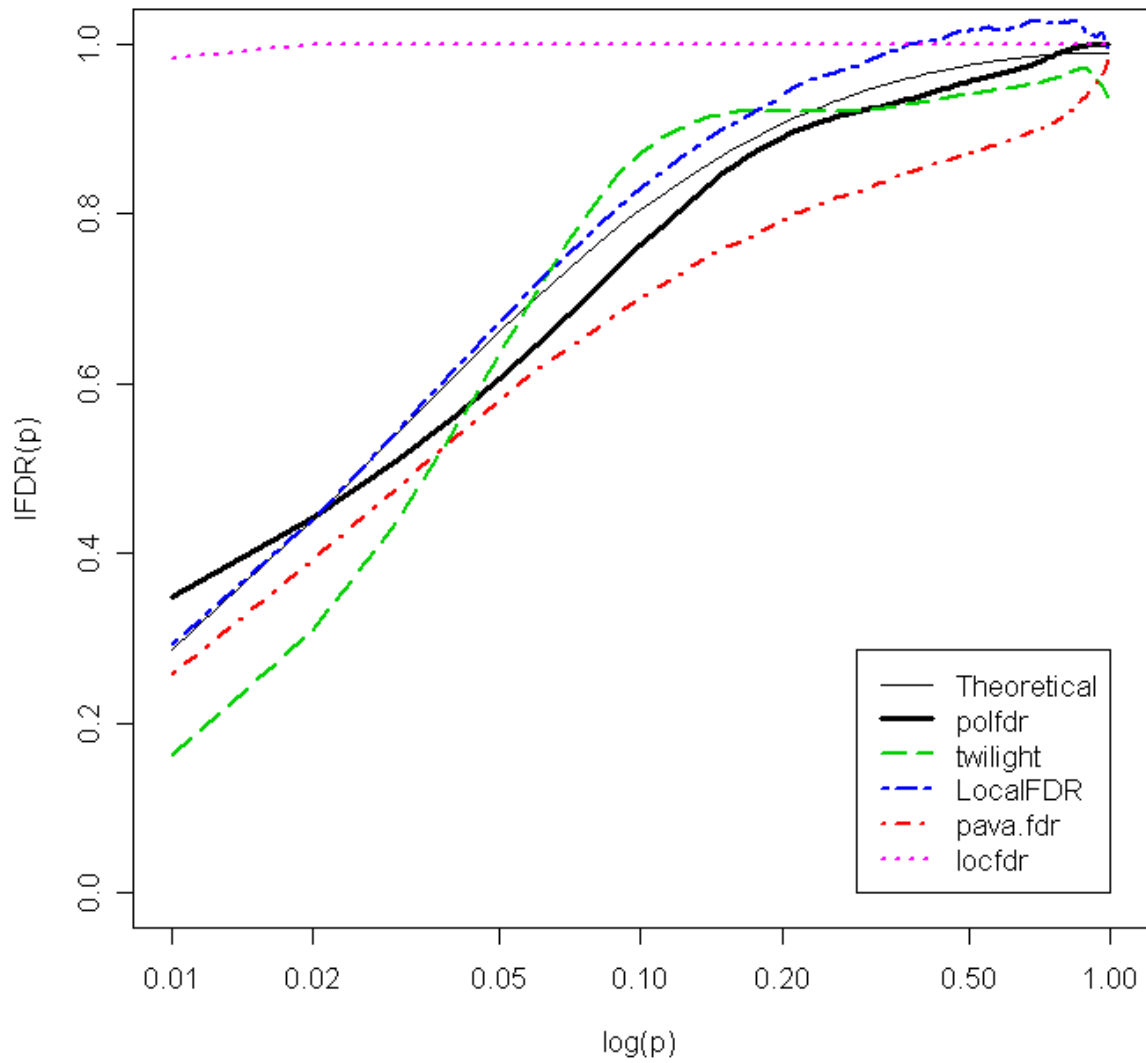


Figure 9: Expected IFDR as a function of  $p$  for each estimator with  $m=500$ ,  $\pi_0=0.8$  and configuration (a).

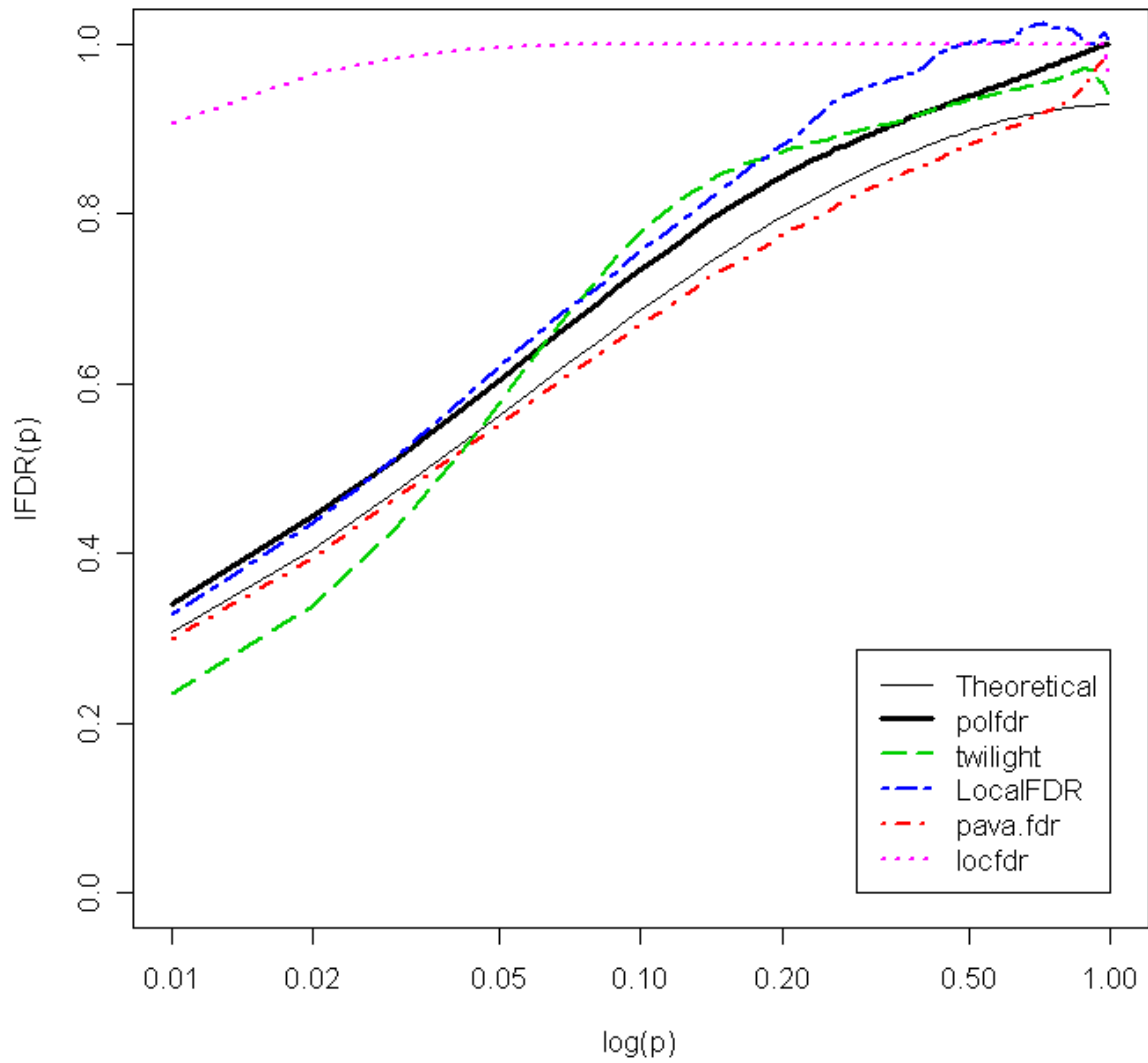


Figure 10: Expected IFDR as a function of  $p$  for each estimator with  $m=500$ ,  $\pi_0=0.8$  and configuration (b).

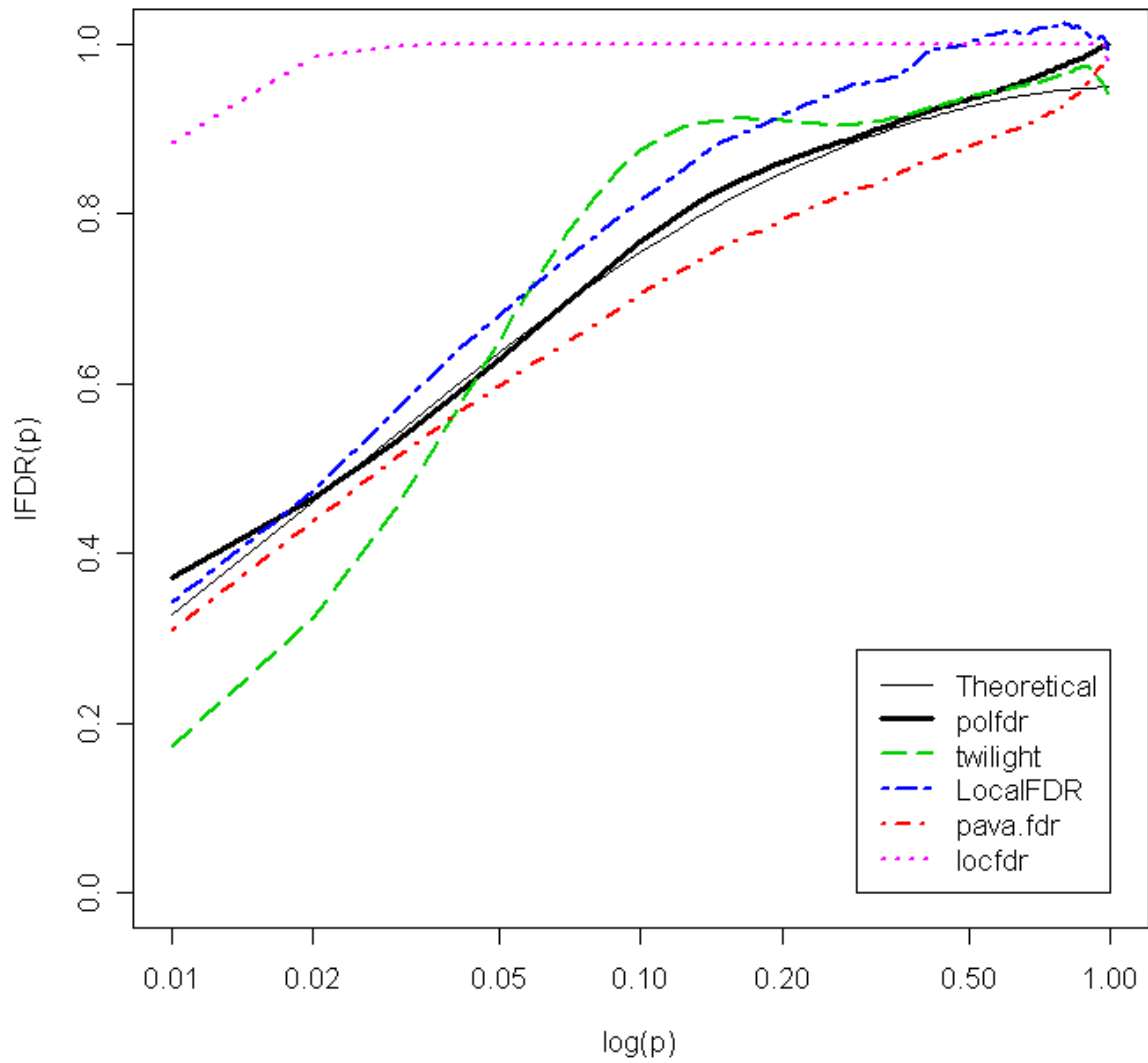


Figure 11: Expected IFDR as a function of  $p$  for each estimator with  $m=500$ ,  $\pi_0=0.8$  and configuration (c).

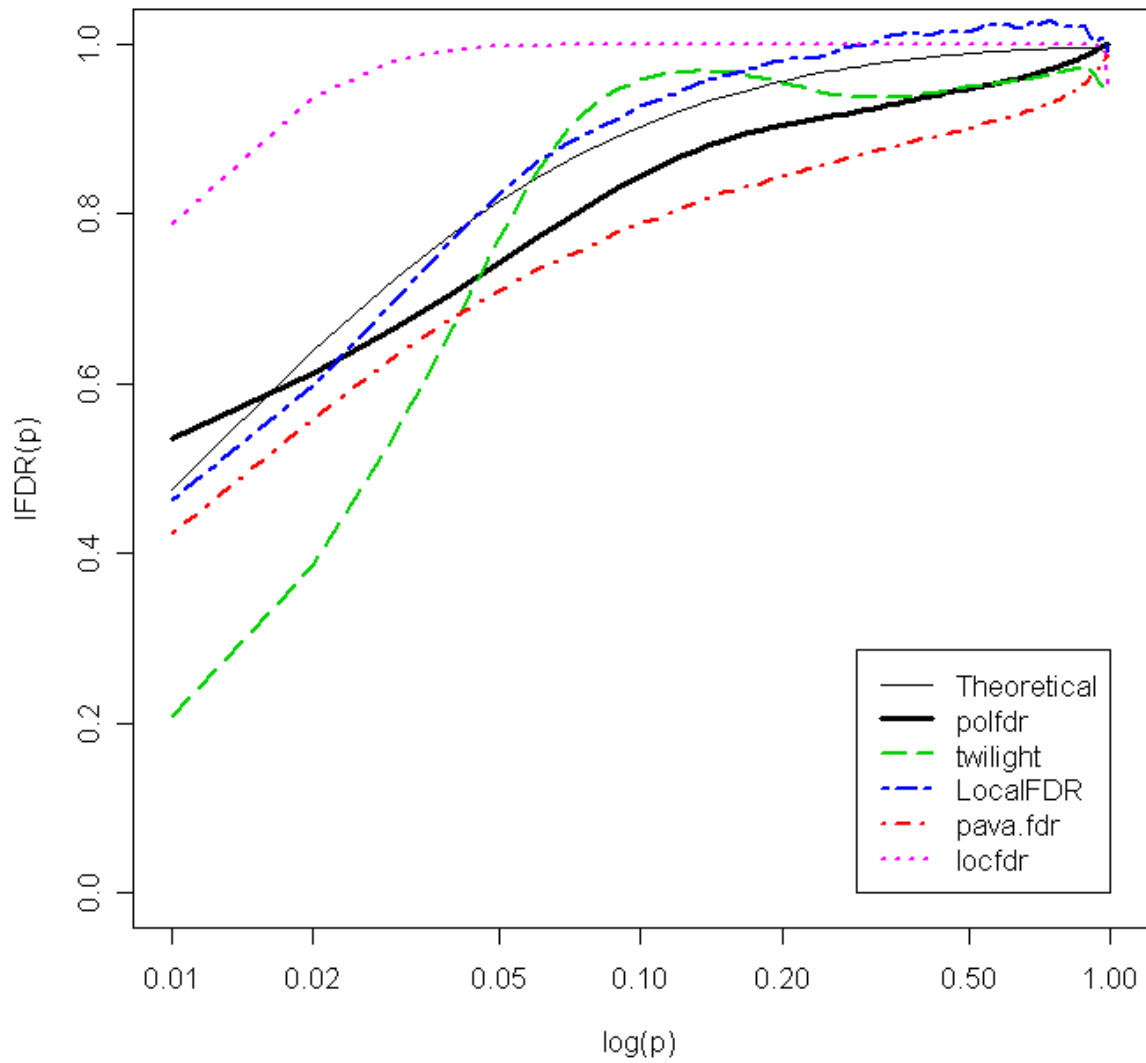


Figure 12: Expected IFDR as a function of  $p$  for each estimator with  $m=500$ ,  $\pi_0=0.9$  and configuration (a).



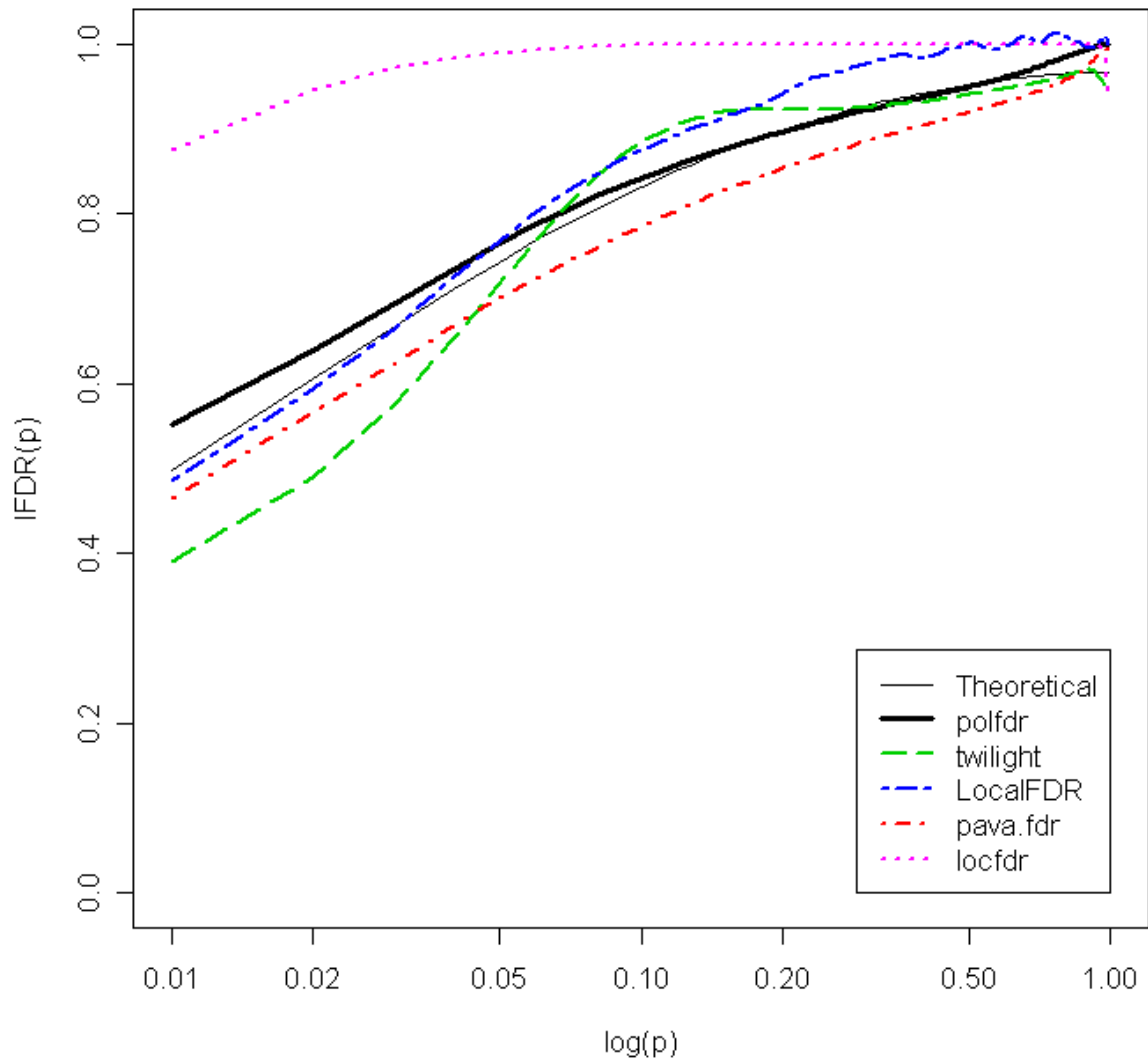


Figure 13: Expected IFDR as a function of  $p$  for each estimator with  $m=500$ ,  $\pi_0=0.9$  and configuration (b).

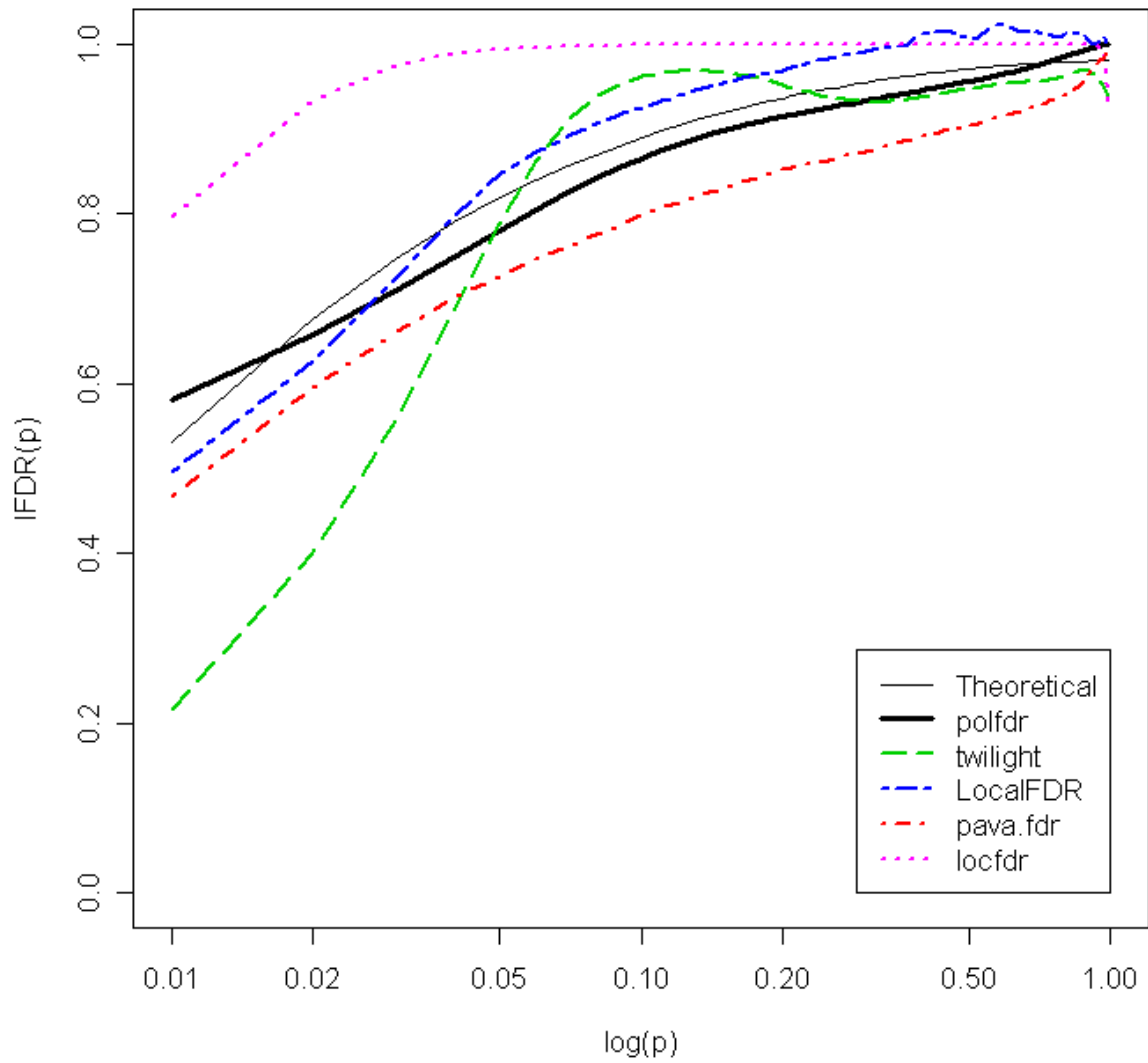


Figure 14: Expected IFDR as a function of  $p$  for each estimator with  $m=500$ ,  $\pi_0=0.9$  and configuration (c).

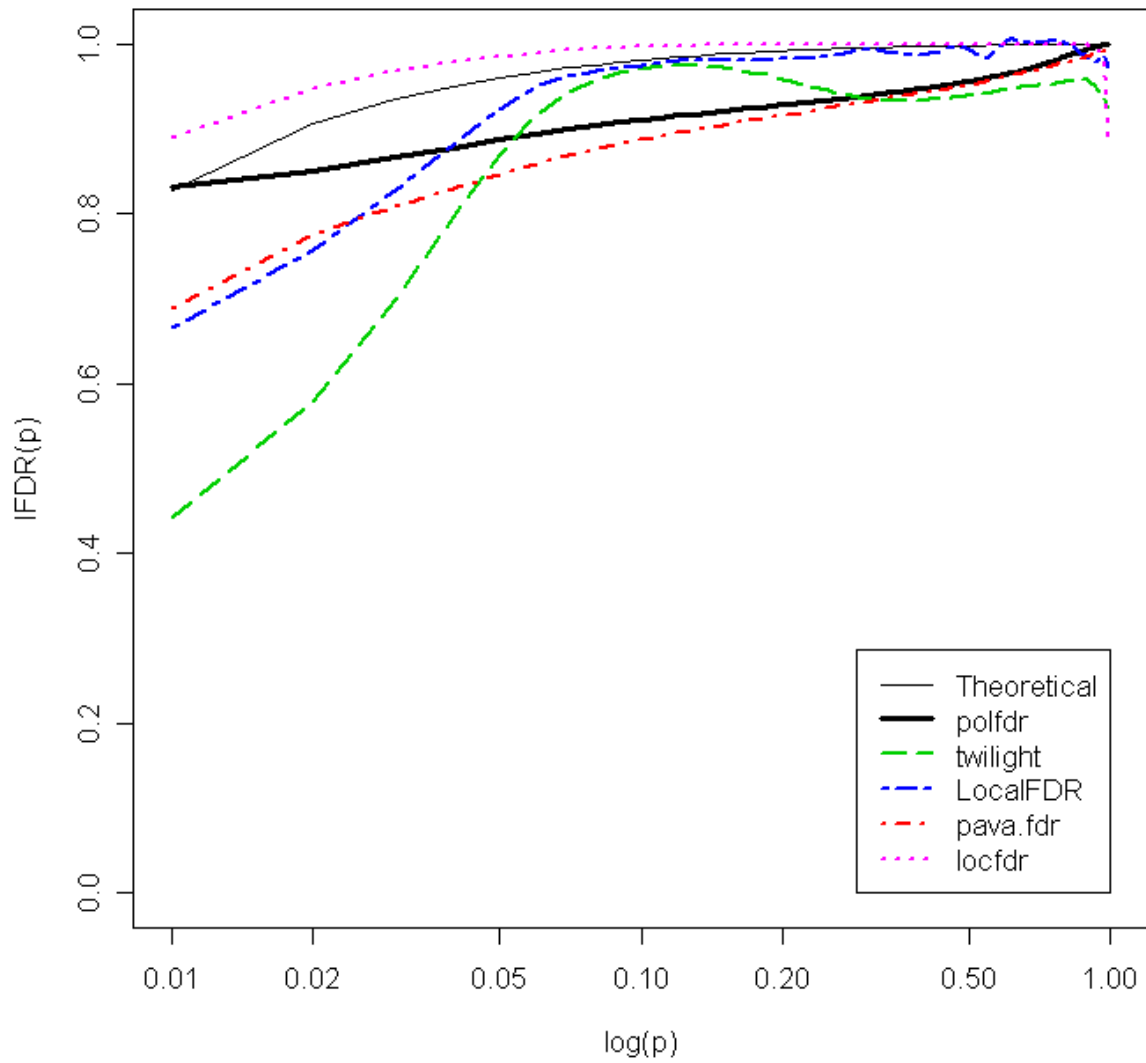


Figure 15: Expected IFDR as a function of  $p$  for each estimator with  $m=500$ ,  $\pi_0=0.98$  and configuration (a).

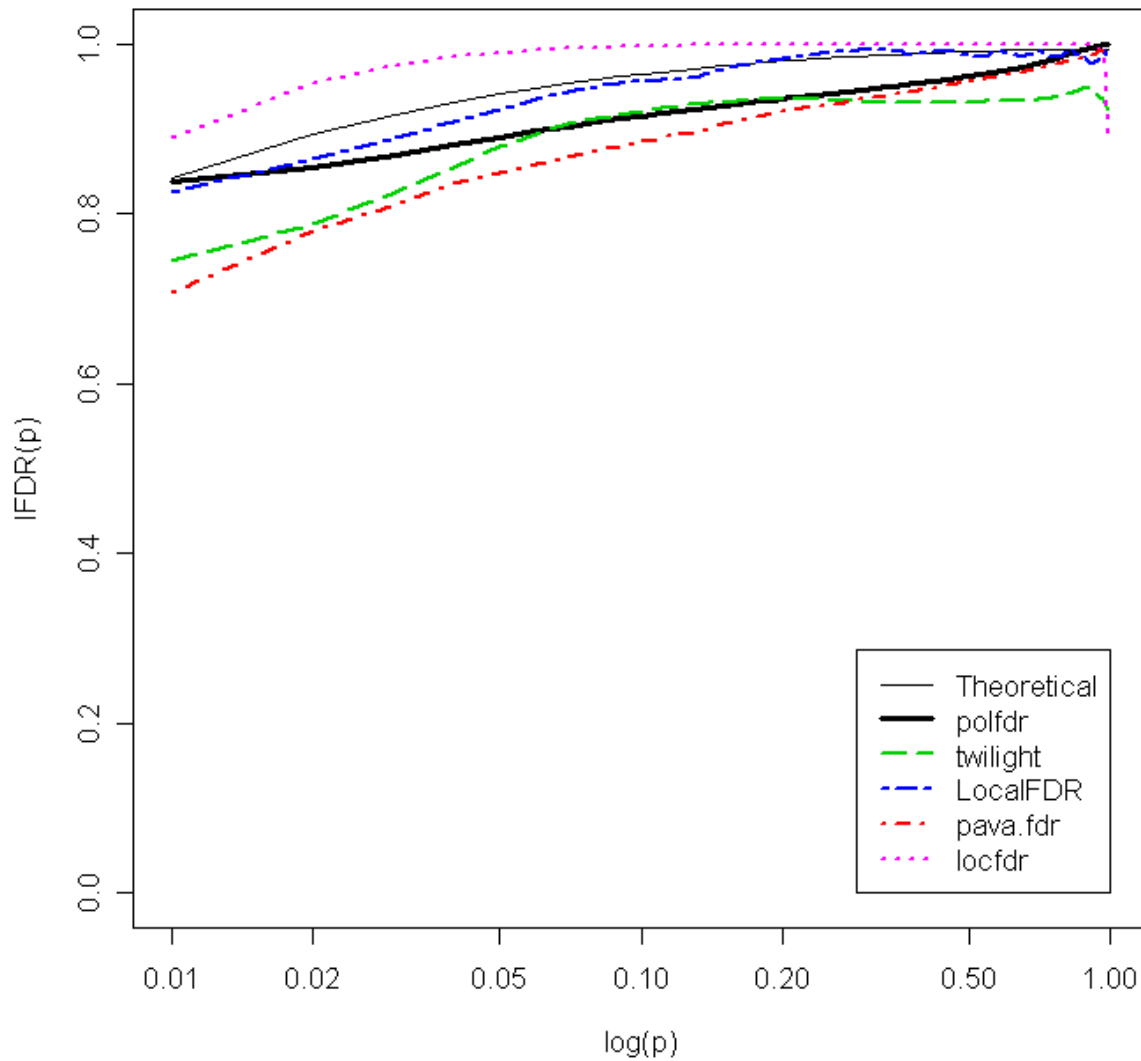


Figure 16: Expected IFDR as a function of  $p$  for each estimator with  $m=500$ ,  $\pi_0=0.98$  and configuration (b).

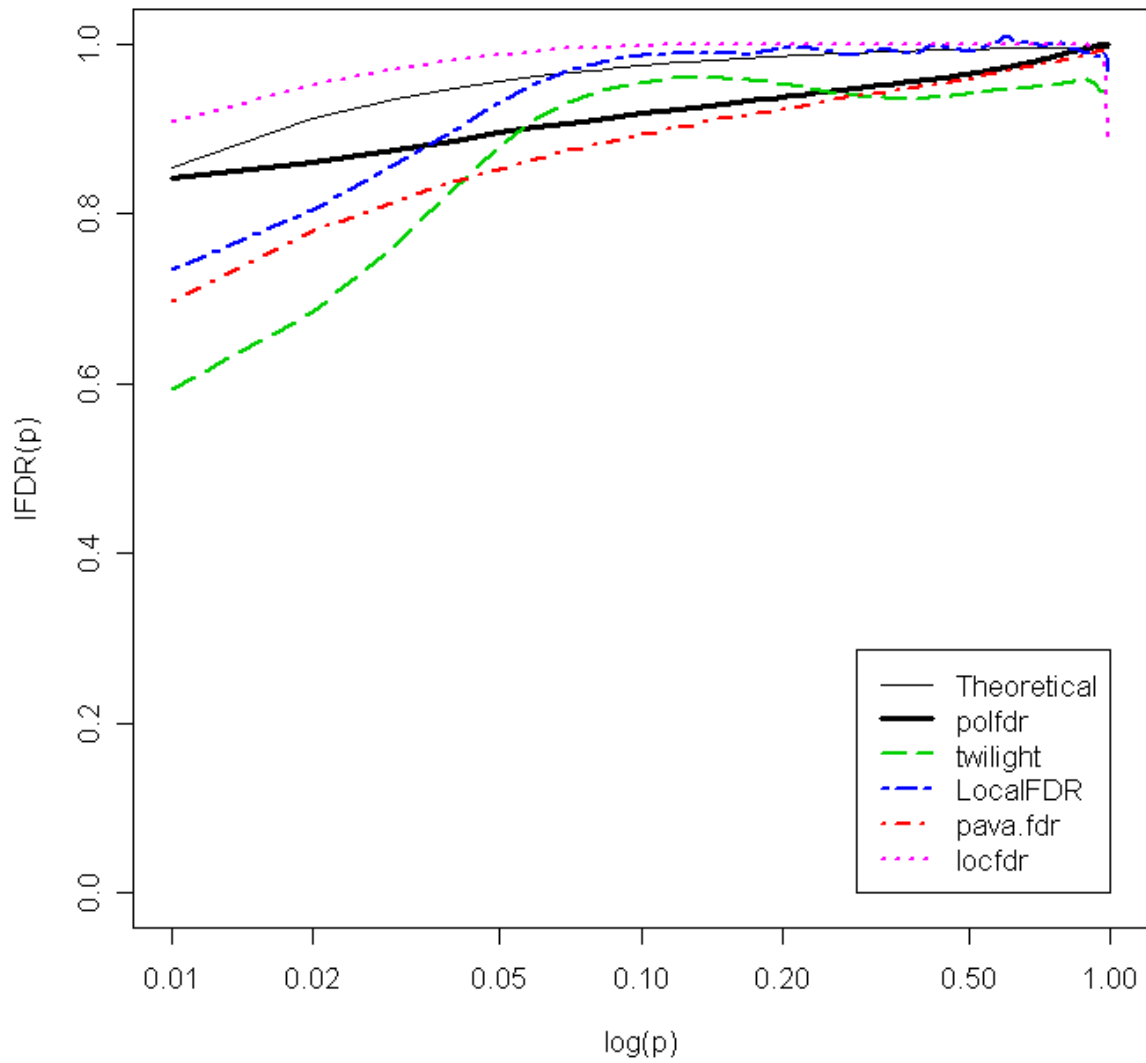


Figure 17: Expected IFDR as a function of  $p$  for each estimator with  $m=500$ ,  $\pi_0=0.98$  and configuration (c).

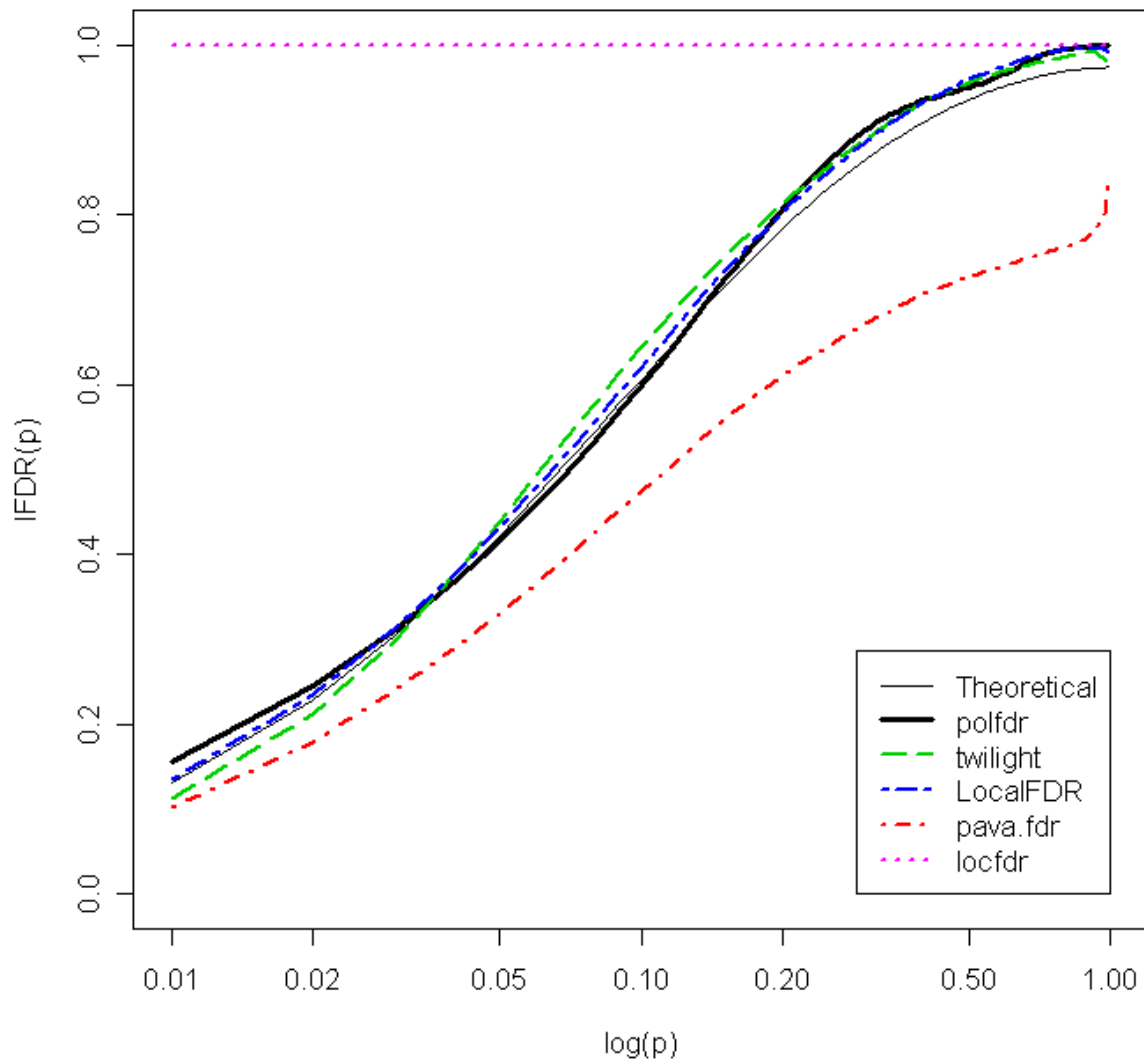


Figure 18: Expected IFDR as a function of  $p$  for each estimator with  $m=5000$ ,  $\pi_0=0.6$  and configuration (a).

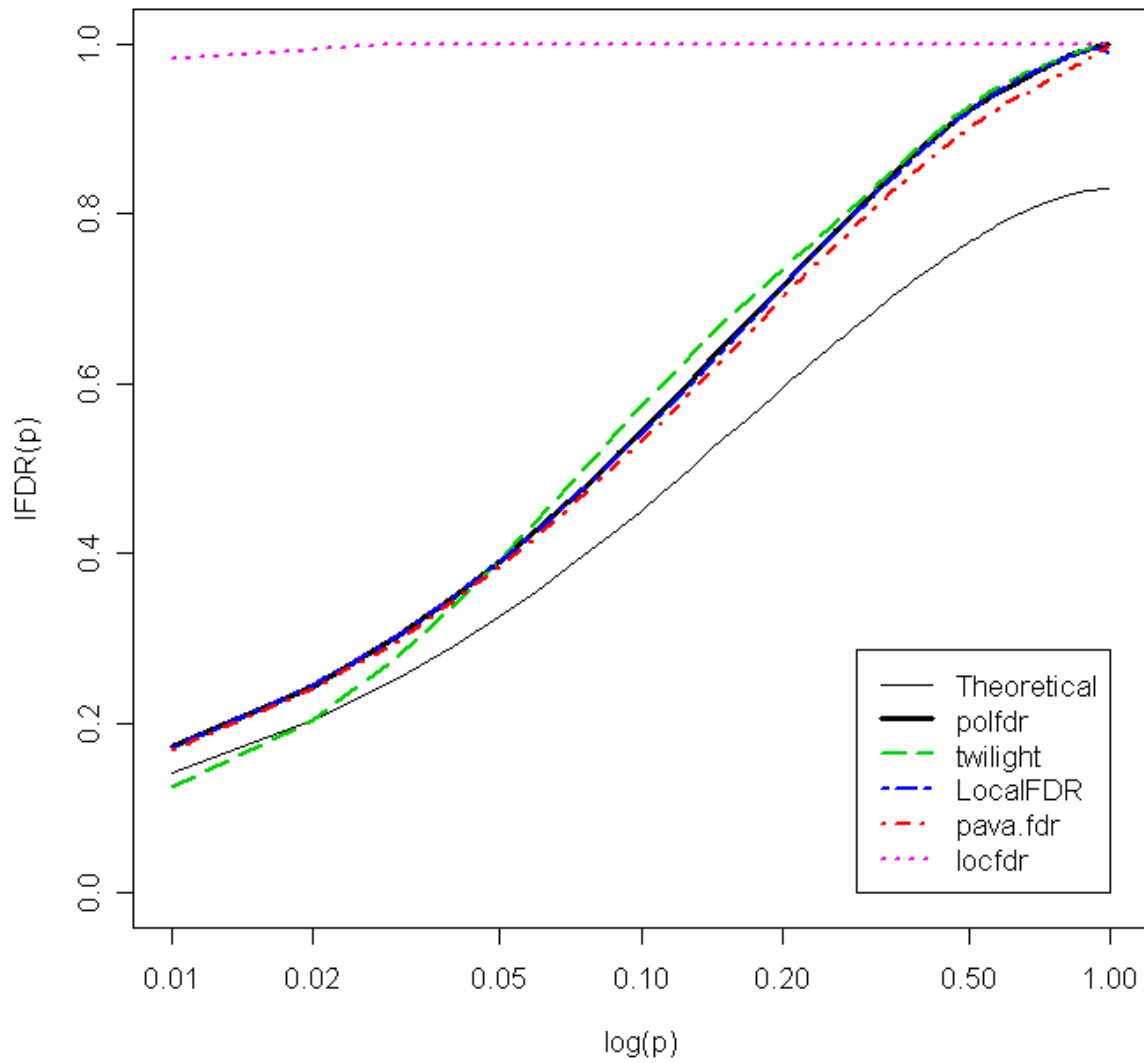


Figure 19: Expected IFDR as a function of  $p$  for each estimator with  $m=5000$ ,  $\pi_0=0.6$  and configuration (b).

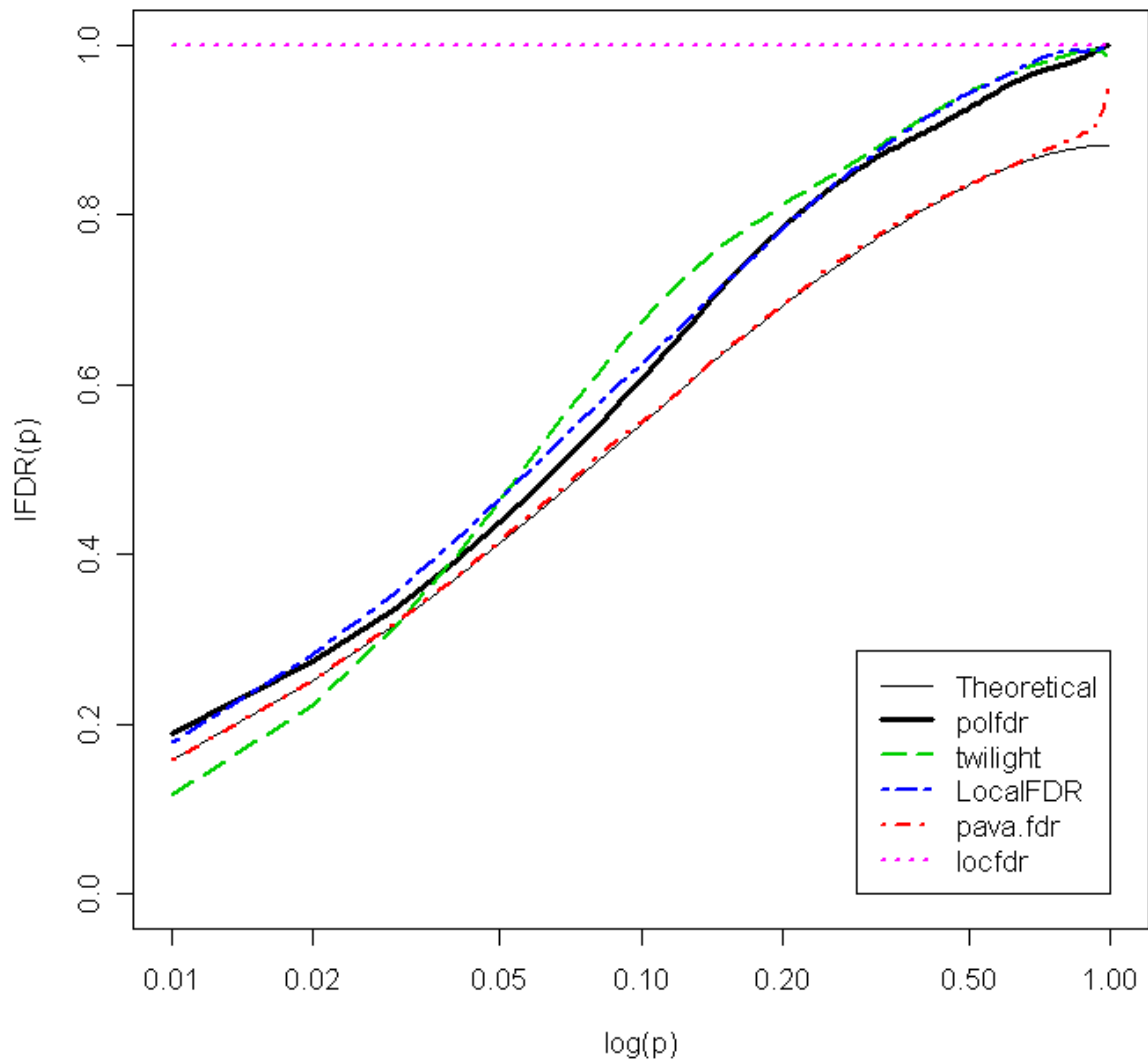


Figure 20: Expected IFDR as a function of  $p$  for each estimator with  $m=5000$ ,  $\pi_0=0.6$  and configuration (c).



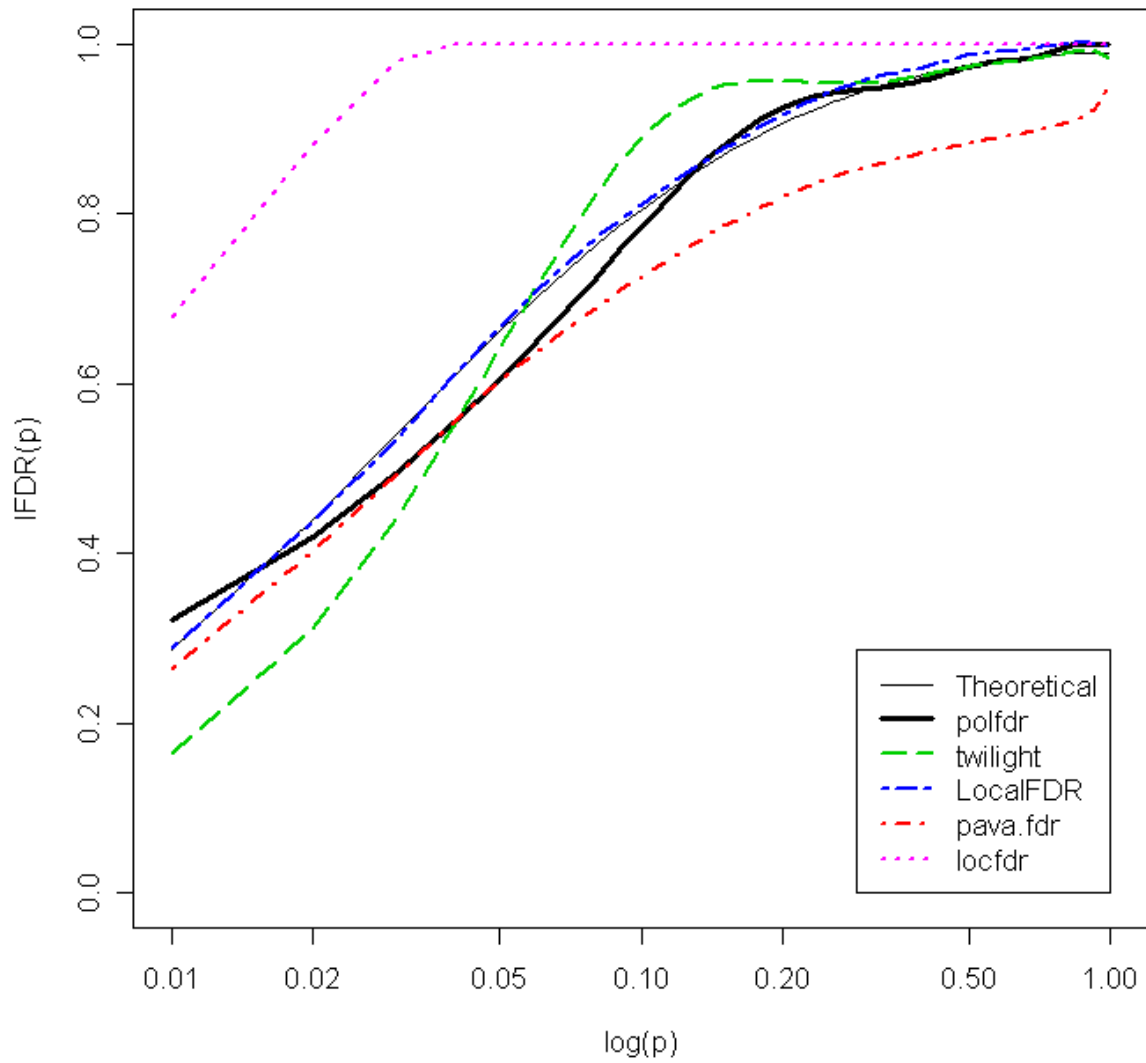


Figure 21: Expected IFDR as a function of  $p$  for each estimator with  $m=5000$ ,  $\pi_0=0.8$  and configuration (a).

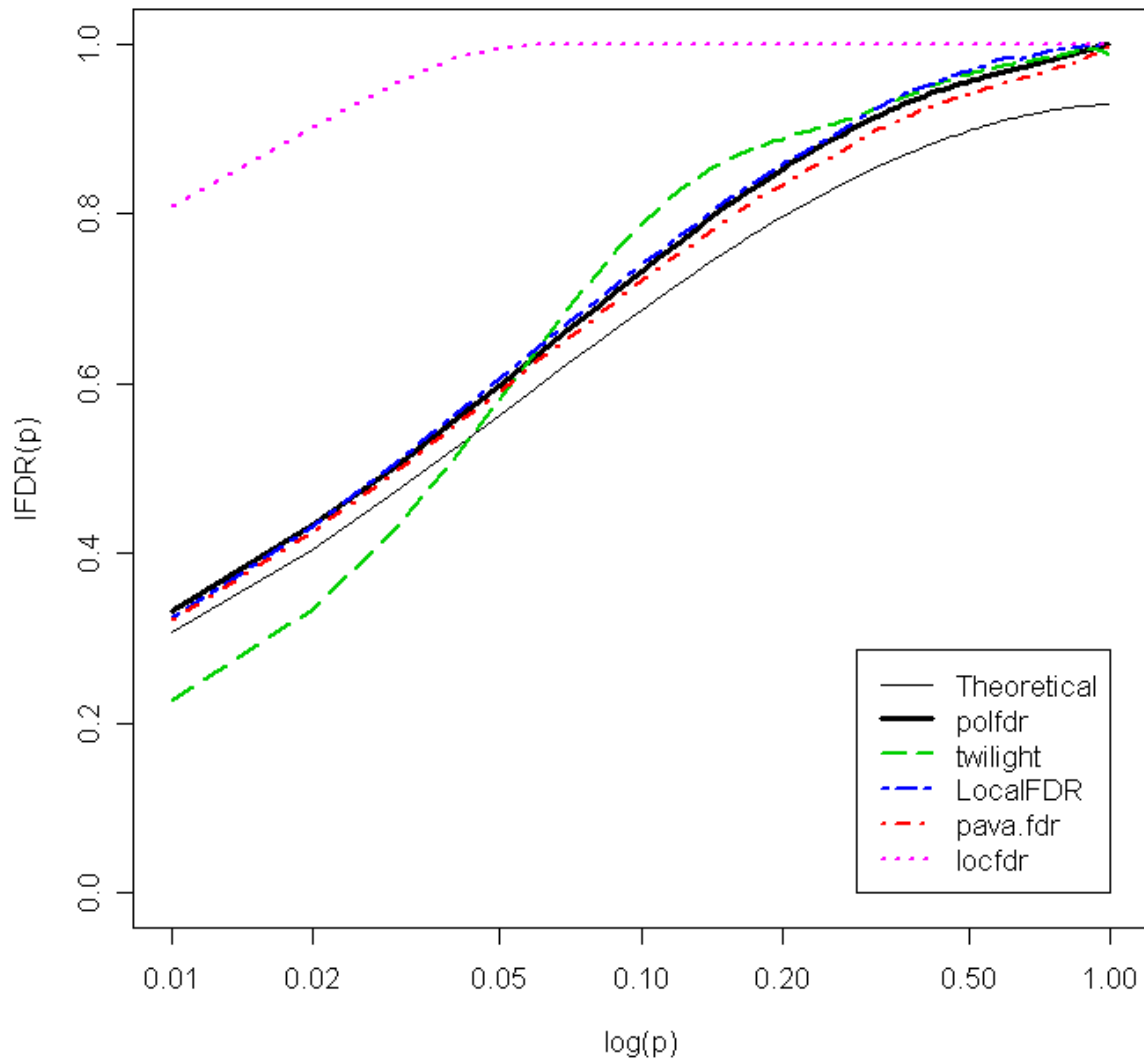


Figure 22: Expected IFDR as a function of  $p$  for each estimator with  $m=5000$ ,  $\pi_0=0.8$  and configuration (b).

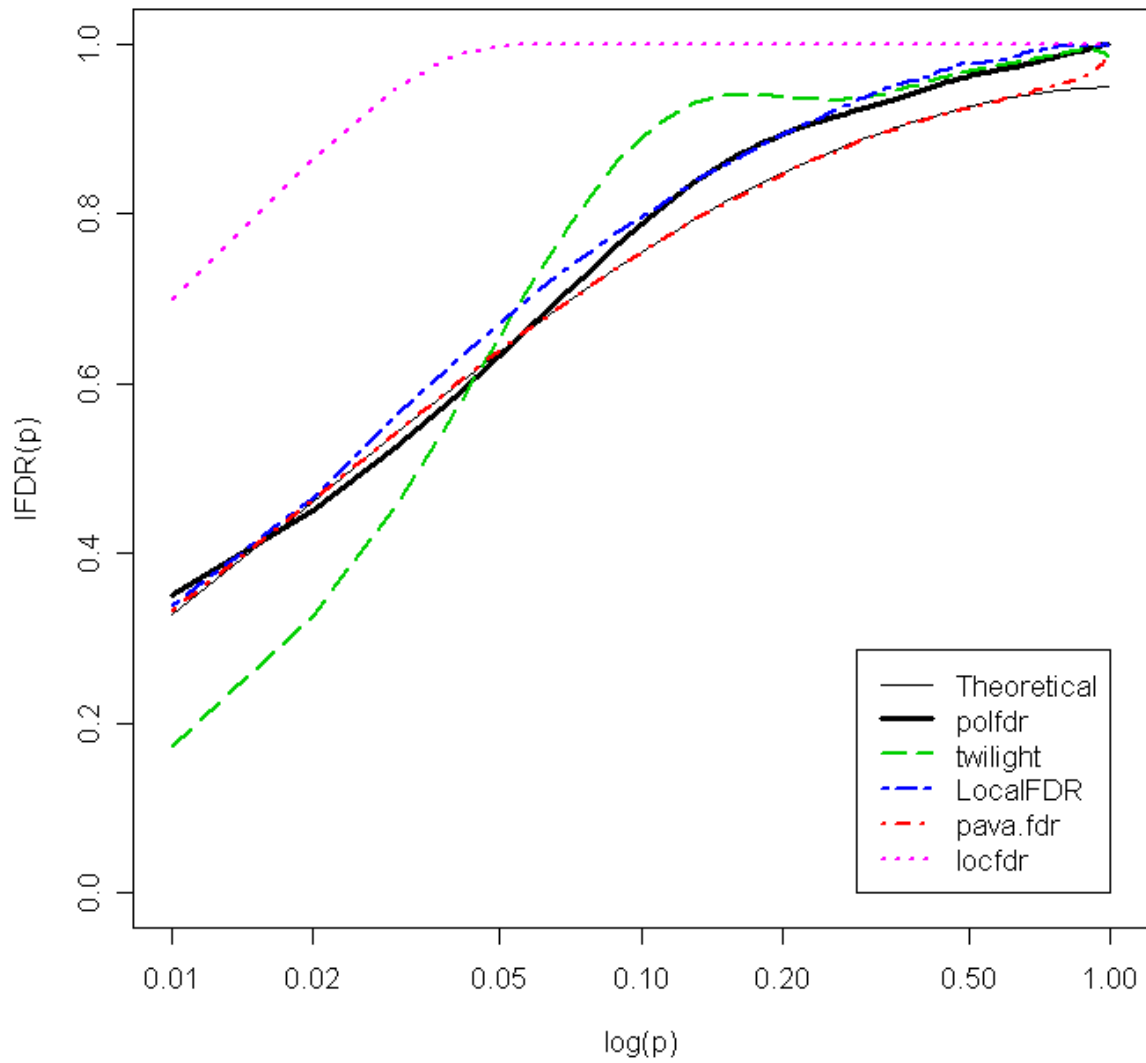


Figure 23: Expected IFDR as a function of  $p$  for each estimator with  $m=5000$ ,  $\pi_0=0.8$  and configuration (c).

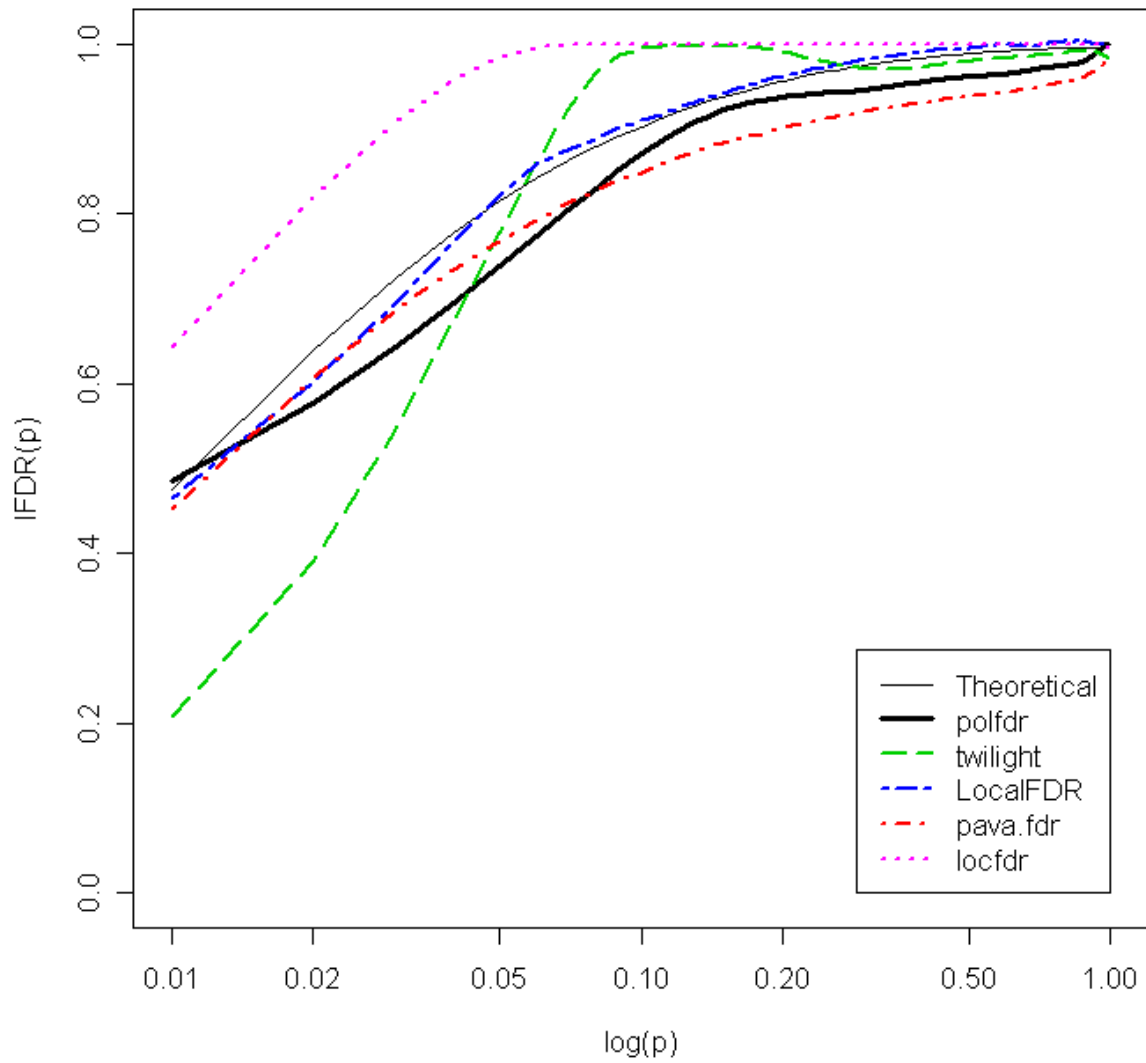


Figure 24: Expected IFDR as a function of  $p$  for each estimator with  $m=5000$ ,  $\pi_0=0.9$  and configuration (a).

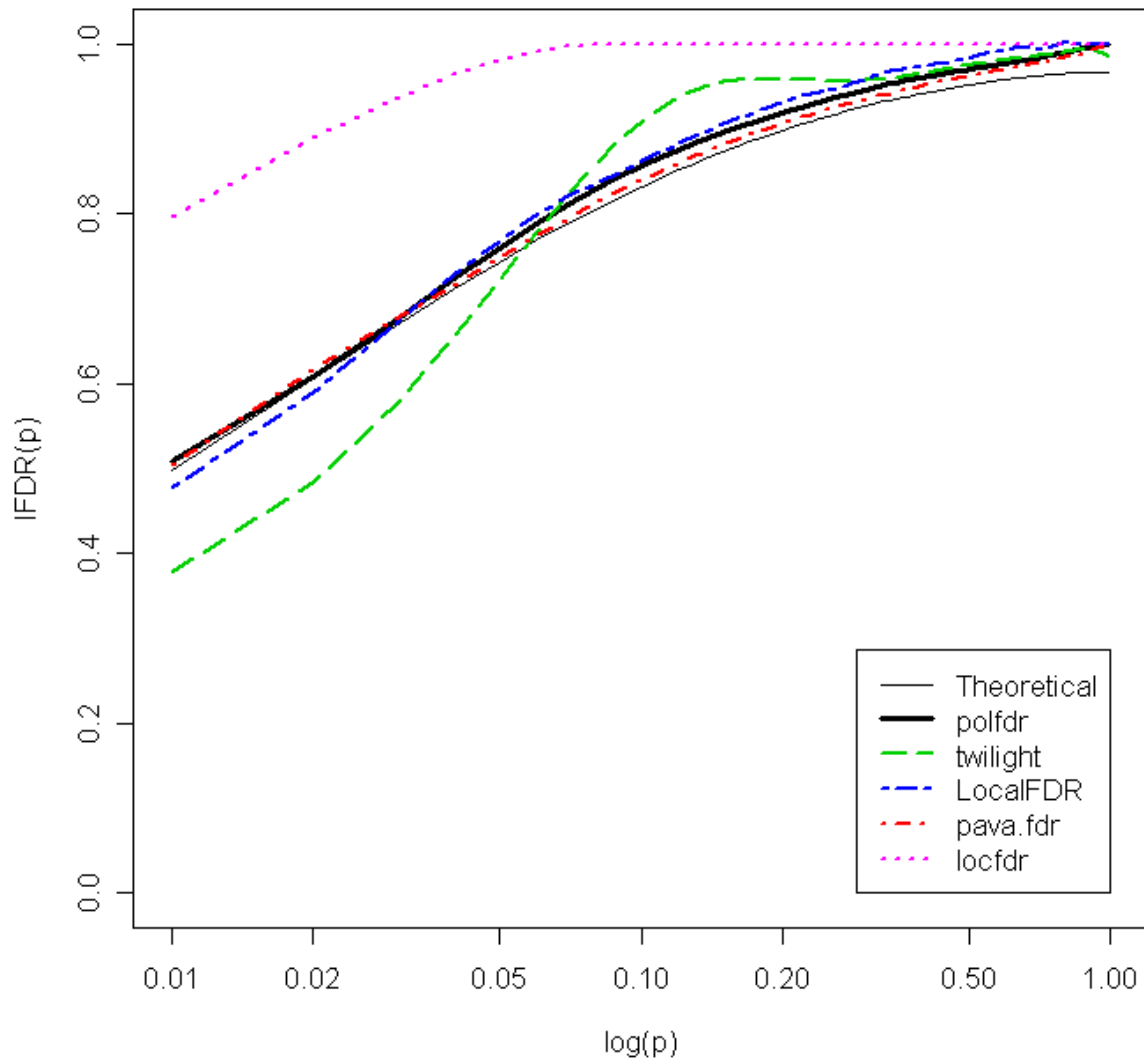


Figure 25: Expected IFDR as a function of  $p$  for each estimator with  $m=5000$ ,  $\pi_0=0.9$  and configuration (b).

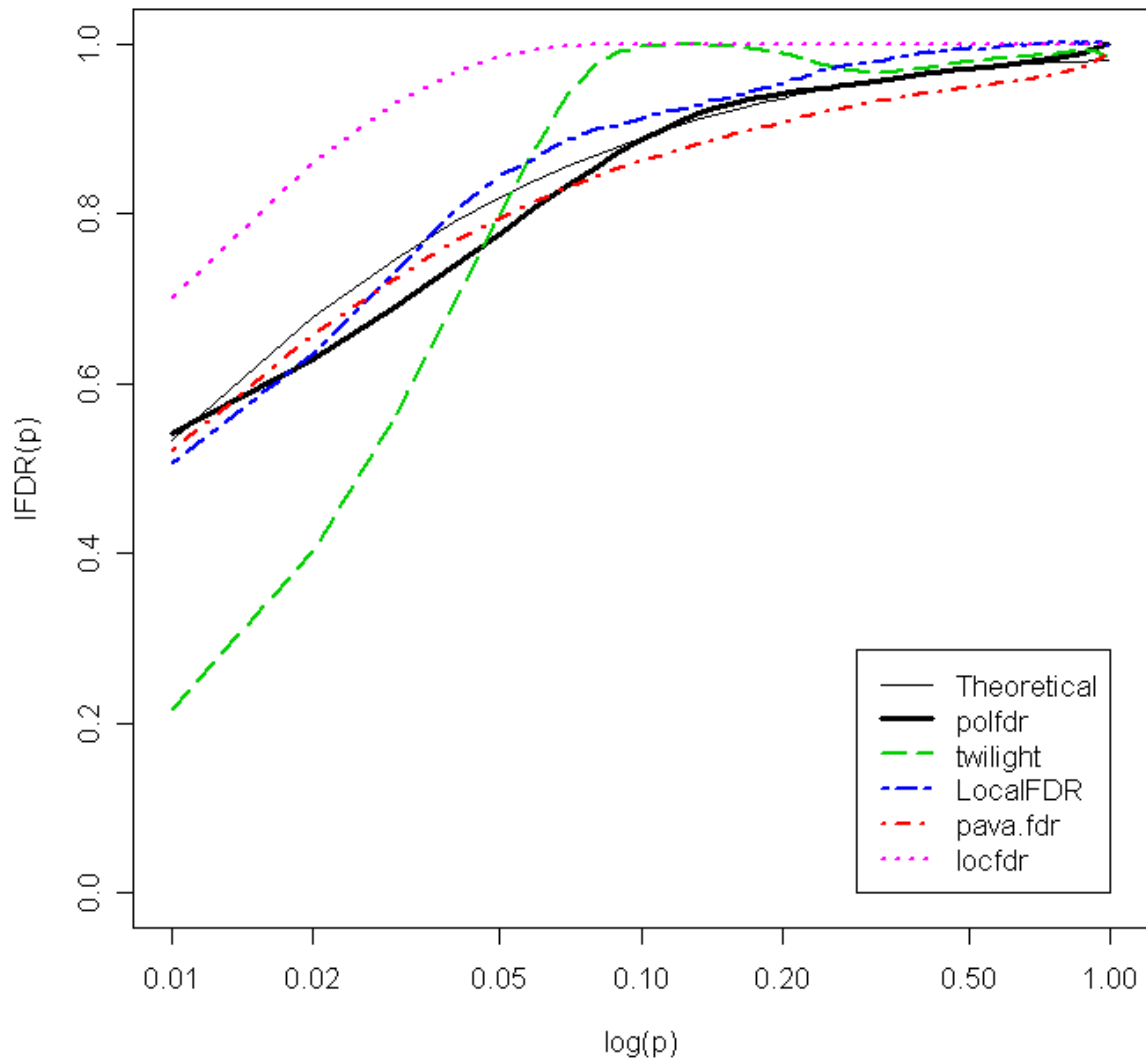


Figure 26: Expected IFDR as a function of  $p$  for each estimator with  $m=5000$ ,  $\pi_0=0.9$  and configuration (c).

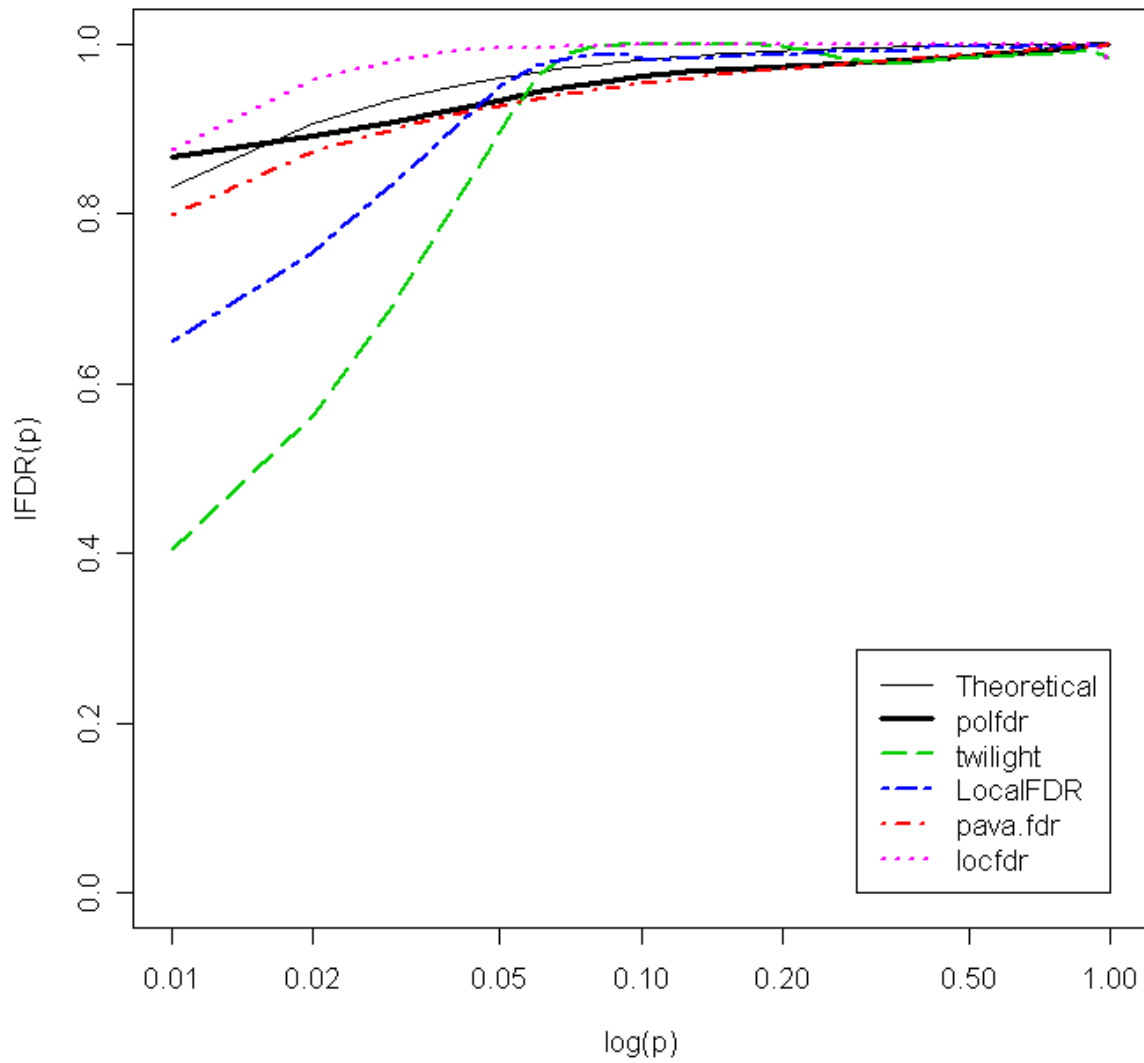


Figure 27: Expected IFDR as a function of  $p$  for each estimator with  $m=5000$ ,  $\pi_0=0.98$  and configuration (a).

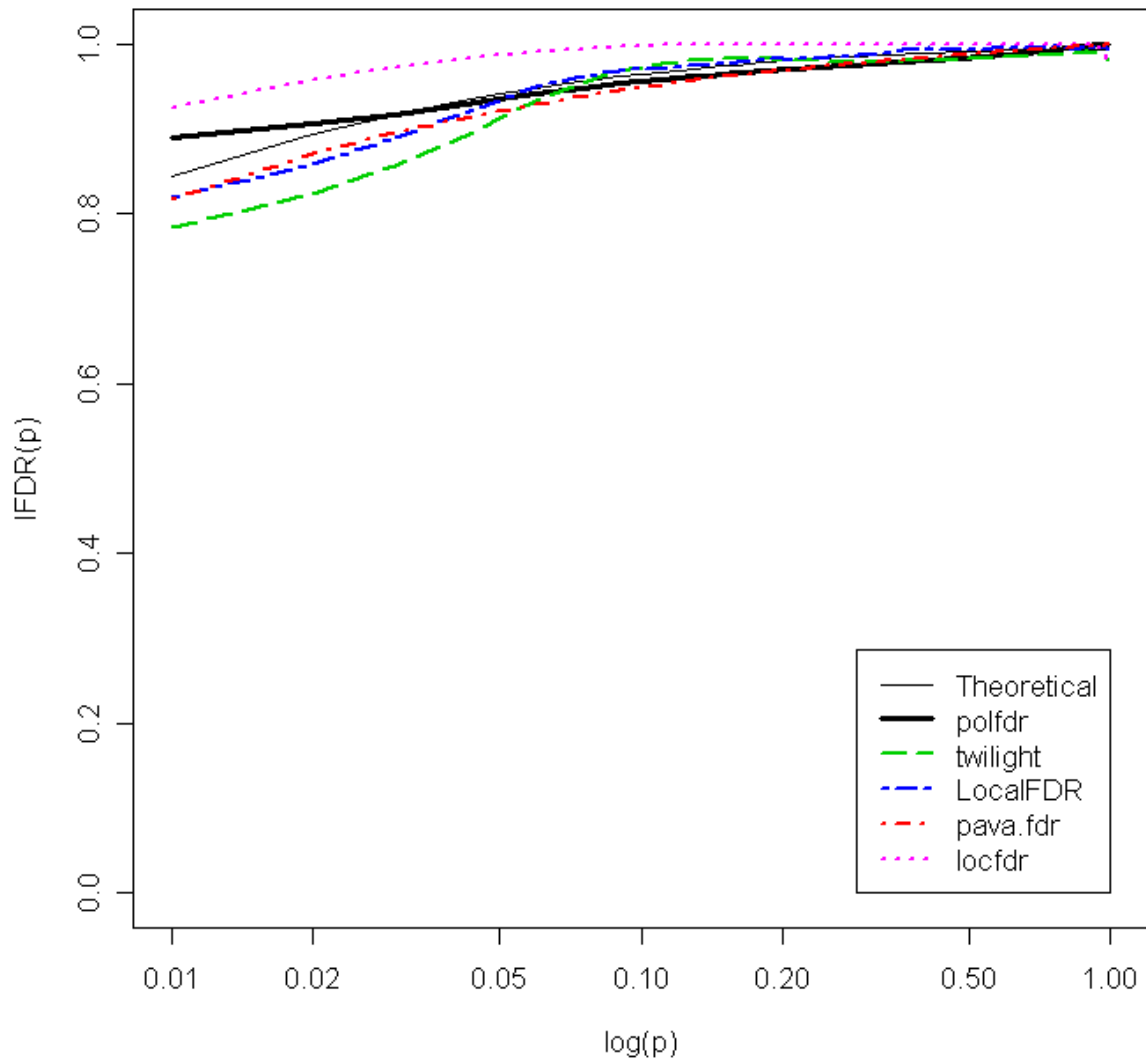


Figure 28: Expected IFDR as a function of  $p$  for each estimator with  $m=5000$ ,  $\pi_0=0.98$  and configuration (b).



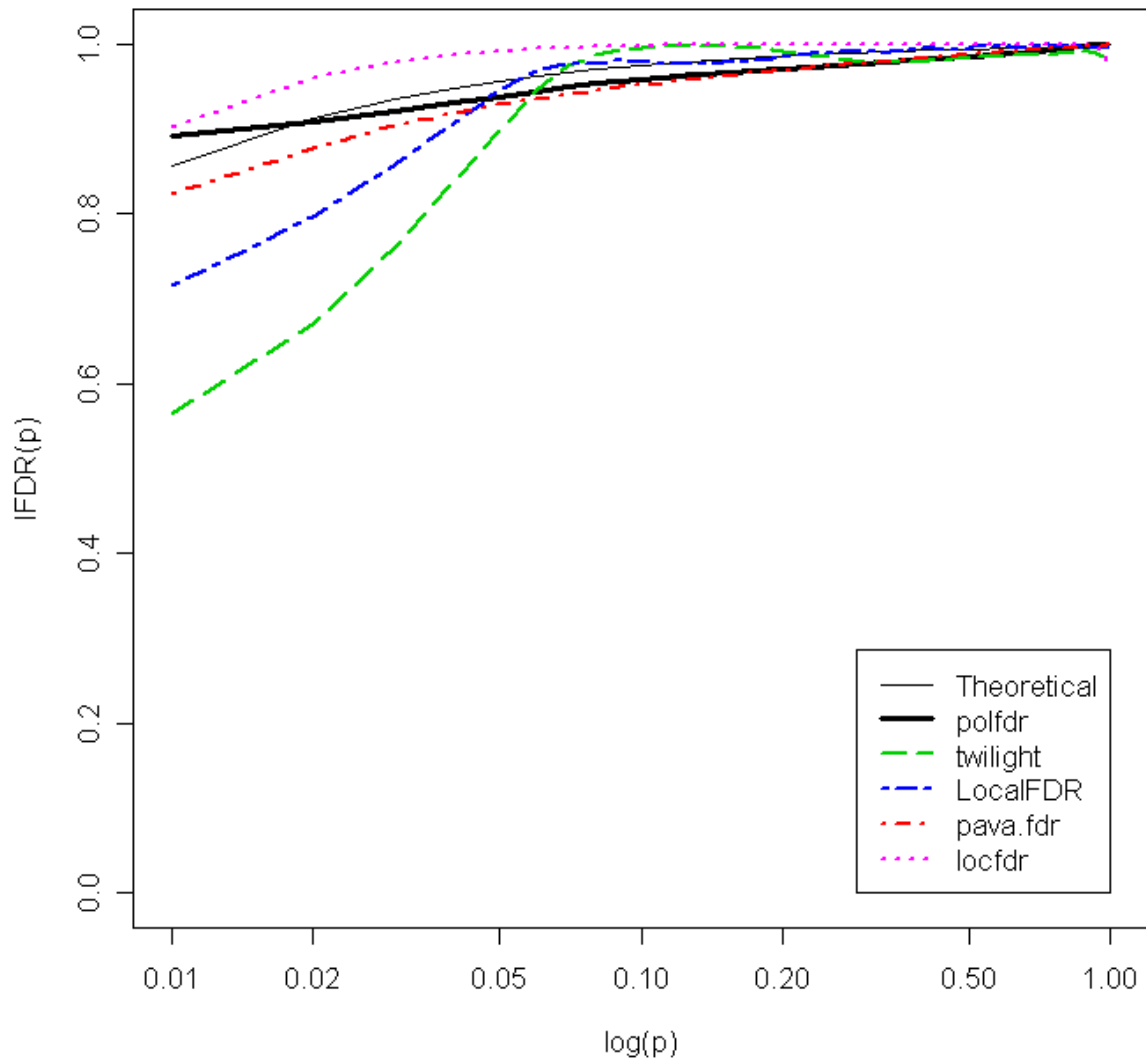


Figure 29: Expected IFDR as a function of  $p$  for each estimator with  $m=5000$ ,  $\pi_0=0.98$  and configuration (c).