The detection of traffic differentiation by ISPs has drawn significant attention for over ten years. One of the first studies was conducted by Beverly, Bauer, and Berger (2007), which measured the blocking of traffic belonging to a particular application or class of applications in their assigned TCP or UDP port. Zhang, Mao, and Zhang (2009) developed NetPolice as a system to verify traffic differentiation in backbone ISPs by taking loss measurements from end hosts. Lu *et al.* (2009) presented a user-level tool named POPI to detect packet forwarding prioritization in routers through an end-to-end measurement. Dischinger *et al.* (2010) proposed Glasnost to identify whether the ISP was performing application-specific traffic shaping of Internet users. Through DiffProbe, Kanuparthy and Dovrolis (2010) focus on delay discrimination and loss discrimination by comparing latency and packet loss between exposed and controlled traffic. Li *et al.* (2019) address the impact of content-based traffic differentiation practices, deployed in operational mobile networks, by conducting a large-scale study that detected fixed-rate bandwidth limits as the most observed conduct. Khandkar and Hanawal (2021) propose a measurement framework named FairNet to detect any deliberate traffic discrimination over the Internet using audio and video media streaming services.

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