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To overcome the drawbacks of terrestrial infrastructure with fair and highquality services due to limited coverage areas, integrated satellite and terrestrial networks have been proposed in many fields for various applications, which are especially beneficial for users in rural or disasterstricken scenarios [1], [2]. With the rapid development of multimedia and broadband services, the problem for spectrum scarcity is becoming severely urgent for both satellite and terrestrial networks. In this regard, various researchers propose the application of cognitive radio, which leads to an emerging architecture known as cognitive satellite-terrestrial networks (CSTNs) [3].

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