

Wireless Multiple Access

David Fatseas and Ron Addie

University of Southern Queensland

2022

Wireless Multiple Access

- ▶ CSMA/CA
- ▶ Sharing by Treating Other Channels as Noise
- ▶ Code Sharing
- ▶ OFDMA
- ▶ Discussion

Objectives

We aim to understand:

- ▶ how nearby wireless devices are able to share access to spectrum;
- ▶ the CSMA/CA multiple access scheme;
- ▶ how devices are able to co-exist by treating nearby signals as noise;
- ▶ the alternative spectrum sharing technologies that are available.