oueees-202006 topic 02:

Multiplexing

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Lecture notes and reporting

- https://github.com/jj1bdx/oueees-202006-public/
- Check out the README.md file and the issues!
- Keyword at the end of the talk
- URL for submitting the report at the end of the talk

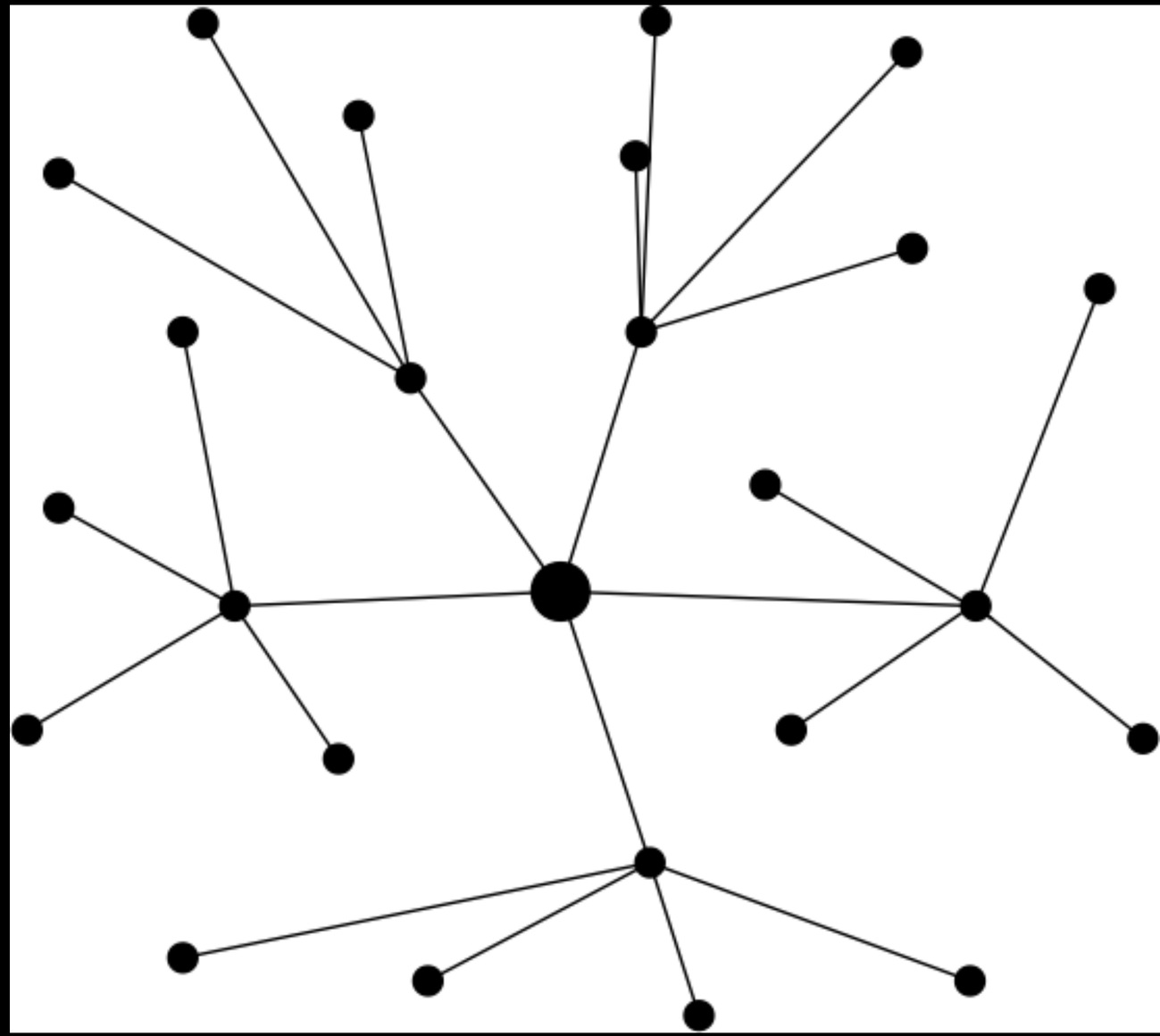
Topic of this video:

Multiplexing

Multiplexing: sharing the same link by multiple nodes and communication devices

Multiplexing enables decentralization

- Some links carry shared traffics for many different nodes



How to multiplex different types of information, and put them together for sharing a same medium?

Signal characteristics used for multiplexing

- Space division (multiple lines or multiple beam-formed antennas)
- Time division
- Frequency/wavelength division
- Polarization division
- Code division (multiple codes of very small cross-correlation)

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