

Wireless Intelligent Networks

5GWIN Association

Tackling AIB and AI Scheduler Complexity

5G WIN Association members

5G WIN is a non-profit association in Israel funded in 2020 for the sole purpose of advancing the research and knowhow in specific 5G Intelligent Network topics

Academic Institutes

- 1. Technion Haifa
- 2. Bar Ilan Uni
- 3. Ariel Uni.
- 4. Ben Gurion Uni (BGU)
- 5. Tel Aviv Uni (TAU)
- 6. LEV Uni. Jerusalem

Industrial associates

- 1. Asocs
- 2. Elbit
- 3. RunEl
- 4. CEVA
- 5. Ceragon
- 6. Mobilicom



Mesh IAB Topology





AI based scheduler

<u>Challenge</u> No Deterministic Model for optimal 5G Scheduler

WAI – Wireless Artificial Intelligence

- The requirements in 5G for high data rates, low latency, high BW and the dense number of users cannot be solved in conventional methods
- Use of neural networks in ML (reinforcement Learning) has the potential to enhance performance relative to conventional approach



Thanks