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6G-BRAINS: Bring Reinforcementlearning Into Radio Light Network for Massive Connections

CENTRIC: Towards an Al-Native User-

Centric Air Interface for 6G Networks



6G BRAINS infographic »Non-Public Industrial environment«



CENTRIC AI training environment for 6G Air Interface design

6G-BRAINS research topics

Enhanced new spectrum links:
 OWC and THz

CENTRIC research topics

AI methods for the discovery of
novel and efficient waveforms
novel and efficient transceivers

- AI-driven D2D cell free network architecture for highly dynamic and ultra-dense connectivity
- AI-based end-to-end directional network slicing with guaranteed QoS over highly dynamic networks
- AI-driven data fusion for 3D indoor position mapping
 - 1mm location position accuracy
 - · 1° orientation accuracy

- customized lightweight communication protocols
- Novel end-to-end hardware
 co-design solutions for energyefficient Al-native transceivers
- Training and monitoring for AI
 Air Interface deployments
- Validate user-centric solutions



More information: https://6g-brains.eu/



More information: https://centric-sns.eu/





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