

Top O-RAN Papers of 2024-2025 in OJCOMS!

The evolution of Open RAN (O-RAN) is transforming the future of wireless networks, enabling greater flexibility, interoperability, and efficiency in 5G and beyond. At OJCOMS, we proudly feature groundbreaking research that advances O-RAN technologies and their applications.

 Here are the most impactful O-RAN papers published in OJCOMS in 2024-2025 (FIRST PART):

1 AI-RAN in 6G Networks: State-of-the-Art and Challenges

 **Naveed Ali Khan; Stefan Schmid**

 <https://lnkd.in/d9NakZRw>

2 Deep Learning for Intelligent and Automated Network Slicing in 5G Open RAN (ORAN) Deployment

 **Shu-ping Yeh; Sonia Bhattacharya; Rashika Sharma; Hassnaa Moustafa**

 <https://lnkd.in/dBRxdXV2>

3 Security Threats to xApps Access Control and E2 Interface in O-RAN

 **Cheng-Feng Hung; You-Run Chen; Chi-Heng Tseng; Shin-Ming Cheng**

 <https://lnkd.in/dWXU5J9j>

4 Colosseum: The Open RAN Digital Twin

 **Michele Polese; Leonardo Bonati; Salvatore D'Oro; Pedram Johari; Davide Villa; Sakthivel Velumani; Rajeev Gangula; Maria Tsampazi; Clifton Paul Robinson; Gabriele Gemmi; Andrea Lacava; Stefano Maxenti; Hai Cheng; Tommaso Melodia**

 <https://lnkd.in/dzRCmUyV>

5 Attacking O-RAN Interfaces: Threat Modeling, Analysis, and Practical Experimentation

 **Pau Baguer; Girma M. Yilma; Esteban M.; Gines Garcia Aviles; Andrés Saavedra; Marco Liebsch; Xavier Costa Pérez**

 <https://lnkd.in/dkZMF8Jh>

As O-RAN continues to shape the future of 6G, AI-driven networks, and intelligent communication systems, these papers provide valuable insights into cutting-edge research and innovations.