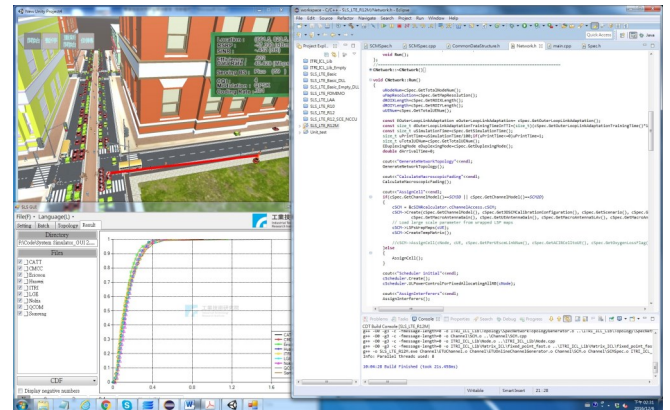


Abstract

System-level simulator software developed by ITRI to simulate the complex scheduling, interaction, transmission and interference between a large number of base stations and user equipment. It is especially suitable for simulating LTE FDD system and LTE TDD system. Can accurately simulate the Downlink and Uplink features, but also have Fast (fast execution speed) Accurate (correct) Cloud (cloud) Training, and other four characteristics.

Product features

- Software requirement: only C++ Compiler (GCC)
- LTE FDD System and LTE TDD System simulation
- Downlink and Uplink functions
- Scheduling based on the results of Closed-loop CSI Feedback (eg, Proportional Fair, FIFO, and Round-Robin)
- Adaptive transmission mode based on channel capacity



Product functions

Function Type	Function List	
Network Topology	Homogeneous Heterogeneous	Customized
Scenario	TS 36.814 calibration TR 36.828 eIMTA TR 36.872 SCE 256QAM	TR 36.873 3D SCM channel TR 36.897 FD-MIMO TR 36.900 5G NR Channel Model
Transmission Mode	SISO SU-MIMO	MU-MIMO
Channel	TU ETU SCM	3D SCM 5G NR Channel
Scheduling Scheme	Round-Robin (RR) Proportional Fair (PF)	FIFO Fixed FDM UL and RR DL
Traffic Model	Full buffer 3GPP FTP 1	3GPP FTP 3 VoIP
Link-to-system mapping	EESM PHY abstraction RBIR PHY abstraction	
Output	Jain fairness index Resource utilization HARQ retransmission number per Sec. Capacity (bps)	Spectral efficiency (bps/Hz) Cell edge spectral efficiency Average packet delay (Sec.)

