## Multicode Multicarrier Interleave Division Multiple Access Communication

Habib ur Rehman\*, Imran Zaka\*, Muhammad Naeem\*\*, (Syed Ismail) Shah\*\*, Jamil Ahmad\*\*)

## **Abstract**

A new Mulitcode Multicarrier Interleave Division Multiple Access (MC-MC-IDMA) system is proposed and analyzed in frequency selective channels. The system supports different modulation schemes for variables data rates. Each user transmits his message by choosing a sequence from an orthogonal code-set. An MC-MC-IDMA system achieves spreading gains both in time and frequency domains. Bit error rate of the system is derived and simulation results are presented.

Full-text is available in the Library IQRA University Islamabad Campus

<sup>\*</sup>Center for Advanced Studies in Engineering (CASE) Islamabad.

<sup>\*\*</sup>Iqra University Islamabad Campus, H-9, Islamabad.