

## **FDSOI specific design techniques for analog, RF and mmW applications**

**Abstract:** This course will first present a very short overview of the major analog and RF technology features of 28nm FDSOI technology. Then we will focus on the benefits of FD-SOI technology for analog/RF and millimeter-wave circuits. Design examples such as analog low-pass filter, inverter-based analog amplifiers and 30GHz and 60GHz Power Amplifiers, as well as mmW oscillators are given. A special focus will be done on the advantages of body biasing and special design techniques offering state of the art performance.