

## **Dr. Amitava Mukherjee**

IBM Global Services, Kolkata

Abstract of talk

### **“Nanonetworks: An emerging area in communications”**

In 1959, the Nobel laureate physicist Richard Feynman, in his famous speech entitled “There’s Plenty of Room at the Bottom,” has pointed out the concepts in nanotechnology and described how the manipulation of individual atoms and molecules would give rise to more functional and powerful man-made devices. In his vision, he talked about having a billion tiny factories able to manufacture fully functional atomically precise nano-devices. “Nanotechnology mainly consists of the processing of, separation, consolidation, and deformation of materials by one atom or by one molecule.” The first simple structures on a molecular scale were obtained, the activities surrounding nanotechnology began to increase slowly and this term became more socially accepted in the early 2000s. The development of nanomachines are the aims of nanotechnology 2000 onwards- that is integrated functional devices consisting of nanoscale components and which are able to perform simple tasks at the nano-level. Going one step ahead, the interconnection of nanomachines in a network or nanonetwork is proposed as the way to overcome the limitations of individual nano-devices. This talk will discuss the over view of the framework of the nano-communication network.

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