THE EVOLUTION OF CONTROL FOR THE SMART TRANSMISSION GRID

The smart transmission grid is a major topic of discussion, but a comprehensive description of such a grid is still developing. It is expected that such a transmission system will have significantly more measurements, communications, and control than the present grid, yet no consensus has been reached on what the specifications of such new functionality should be. Of course, the technical specifications depend on the new applications of monitoring and control that we would like to see for the operation of the grid. Matching the available technology of measurement, communication, and control to our wish list of applications is the way to develop this technical vision of the smart grid.

In this presentation, Bose will describe a specific view of what the smart transmission grid will look like and what new monitoring and control functions will be feasible with existing technologies of measurements, communications, computers and controllers. The new development will be mainly in software, which will also be covered.