

## Emerging Trends in Electrical Machine Drives: Design and Applications

**Abstract:** Electrical Machine Drives (EMDs) are the systems which possess sophisticated motion controller for the operation of electrical machines, integrated for carrying out mechanical work through the rotation of motor shaft. The effectiveness of the drives depends inherently on both, the type of electrical machine and the controller under function. The high performance EMDs are preferred for industrial, domestic and commercial applications like Electric Vehicles [EVs]. The proposed webinar shall cover the emerging trends of EMDs in high speed industrial applications currently in practice. The selection of drives based on the design, speed, efficiency and fast dynamic response of machine under operation, shall be discussed. The emphasis on vital role of Special Electrical Machines (SEM) such as Brushless Permanent Magnet (PM) Synchronous Motors deployed for high performance motor drive applications, will be presented.