

### **833 – Use of virtual reality for training on electric motor condition monitoring**

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Abstract: The use of virtual reality has proliferated in many applications of our everyday life providing advantages in many aspects. The use of these technologies has an immediate application for electric motors condition monitoring since both field engineers and University students have the option to learn how to apply these techniques on electric machines using these technologies, avoiding the necessity of having real faulty motors which are sometimes difficult to be tested either in the lab or in the field. This paper presents the basis of a virtual reality platform developed by the authors which is aimed to be used for electric motor condition monitoring training. More specifically, the platform enables the user to apply different modern predictive methods based on the analysis of transient quantities to machines affected by different faults. The benefits of the platform are being of great value both for researchers, students and field engineers dealing with the maintenance of these assets.