

UNDERSTANDING DIGITAL TRANSFORMATION

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Abstract:

Digital transformation and industry 4.0 has been the most important agenda item for businesses since 2011. It looks like it will remain there for some time. Latest industrial revolution presents not only the transformation of manufacturing systems but also other social interactions of lifelong systems. It is essential to spend a great amount of effort for understanding the real dynamics of the "revolutions" and generate sustainable and implementable roadmap towards transforming the systems accordingly. Failing to comprehend basic components, interactions and methodologies of the industrial revolutions may create permanent problems which would not help improvements even if they are implemented in later times. This presentation will highlight basic issues of the latest digital transformation. It will take the attention to some facts which can be considered as "golden Rules" of better transformation. Digital transformation appears in different forms for different purposes. Technological changes, manufacturing system changes, methodological changes, environmental changes, managerial changes and customer related changes have been dominating the industrial societies to transform and it seems that it will remain as the main source of social evolvment. This digitization process is not easy. It will have to deal with various challenges as well. This presentation will also highlight important issues to be sorted out for better transformation. It will also point out the need for a clear roadmap and a framework program to be established and implemented aiming to shorten institutional transformation in addition to the need for the standardization of the process.