

Ph.D. School in Engineering Science Seminar Announcement

March 11th - 15:30 on [TEAMS](#)

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Digital transformation in manufacturing: Enabling the Digital Thread

Digital transformation and Industry 4.0 technologies hold great promise – and peril – for engineering firms from both an internal and external perspective. The Digital Thread refers to the communication framework that enables a connected data flow and integrated view of an asset's data throughout its entire lifecycle. The digital thread concept is at the core of the digital enterprise, raising the bar for delivering “the right information to the right place at the right time”. While all supporting technologies are “production ready,” significant challenges confront companies as they attempt to stitch the necessary components together, revise workflows, and adapt manufacturing processes and other organizational structures to realize the available benefits. This seminar will frame the importance of establishing, and using, a digital thread in standard engineering business practices, and discuss how the digital thread can improve decision-making capabilities and enable digital transformation strategies.