## **Fundamental Challenges of Building Digital Twins**

## **Perumal Nithiarasu**

Swansea University, UK

## Abstract

Digital twin technology is emerging as a potential solution for complex engineering problems needing comprehensive designs and long-term monitoring and control. This talk will define a digital twin or twining and show some examples, including healthcare and energy applications. This talk will also identify this area's significant challenges and speculate potential solutions. In addition, this talk will discuss digital twins as devices for solving personalised health challenges, especially cardiovascular challenges.