“From virtual objects to virtual knowledge”

Xavier Fouger

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Over 30 years, **Xavier FOUGER** has established learning programs and advised educational institutions and governments across the world in establishing innovative engineering education programs focused on outcome based learning and employability. A member of the consultative board of the UNESCO Aalborg Centre for Problem Based Learning, he is an ASEE and a SEFI Fellow and earned the “Peter the First medal” of the Association for Engineering Education of Russia (AEER) and the “Nikola Tesla chain” of the International Society for Engineering Education (IGIP).

Beyond its impacts on engineers’ work performance through automation and assistance in decision making, , AI becomes generative and produces complete digital definitions of new products and new processes. Achieving such capabilities requires that the “ocean of data” it navigates, unlike the worldwide web, is as valid as the expected results. “Valid” means scientifically accurate and reflecting the most complete accumulation of all lessons learned by a company. It will be a new role of engineers to establish, maintain and enrich these data assets. We will explore the consequences of this new responsibility on engineer’s competences and engineering education.