

A Need for Co-evolution between Technological Innovations and Social Innovations

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Abstract

The 4th industrial revolution must be approached from the perspective of industrial ecology in order to lead to industrial reorganization facing after deindustrialization. This is because, as the characteristics of agriculture and manufacturing differ, the basic characteristics of industries related to the 4th industrial revolution differ from those of manufacturing. Differences in the way agriculture and manufacturing value is created require differences in human type, social systems, and even distribution system. That is, just as ecosystems focus on the interrelationship of organisms and their relationship with the physical environment, the industrial ecosystems to be accompanied by the 4th industrial revolution require new human beings to live in the new industrial ecosystem and new systems to support the new industrial ecosystem, with new technologies in the related fields. This paper will show that the industrial ecology required by the 4th industrial revolution calls for Homo Empathicus different from Homo Economicus of industrial society, a reciprocal economy different from the capitalist economy, and an autonomous democracy different from free democracy.