

Alexandru Averian, *Digital Ecosystems Software Modeling from a Niche Perspective*
Abstract

A digital ecosystem is a new technical-social networked platform and collaborative environment derived from properties observed in natural ecosystems. Such properties as openness, loosely-coupling, auto-organizing and niche oriented could be used to design new type of applications. In this paper we provide an ecosystem model implemented as a multi-agent system from a niche based perspective. We are introducing the concept of niche from a philosophical perspective and then provide a definition of fundamental and realized niche.

Keywords: digital ecosystem, digital species formal context, self-organization multi-agent systems

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