

## **AVERIAN Alexandru, *A Survey on Context Aware Computing in Digital Ecosystems***

### **Abstract**

Ecosystems are considered complex adaptive systems formed from diverse elements which interact at a local level, adapt to a medium and evolve through a selection process. The most interesting characteristics of an ecosystem are adaptability to a medium and its tendency to reach a dynamic balance. Adapting to a medium in an ecosystem assumes the existence of context-aware applications that interact to achieve a general global goal. A context-aware application has the ability to adapt in an autonomous way to the actual context, which is permanently changing, with the purpose of giving an answer and an optimal experience for its user. In this article we consider digital ecosystems as open systems of applications with a degree of context-awareness and we analyze the most relevant models of context from the perspective of digital ecosystems. This discussion is followed by a comparison of current context modelling and reasoning techniques.

**Keywords:** *context, context-awareness, digital ecosystems.*

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