

Summarize an article

“Authenticity and Integrity in the Digital Environment: An
Exploratory Analysis of the Central Role of Trust”

Digital Libraries

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Authenticity and integrity are in fact profound and controversial philosophical ideas that are complexly linked to our conceptual views of documents and artifacts and to our legal, social, cultural, and historical contexts and roles. Authenticity and integrity are two main areas where computing technology is connected to philosophy and social structure. Digital information is considered to have a higher standard of authenticity and completeness than printed information, given that many people are concerned about Internet information.

To define integrity or authenticity, it is recommended that you first intuitively understand how the digital environment (Online space) differs from the physical world (now called "meat space" ; Offline space). In the meat space, we extend the concept of authenticity to much more than objects. The difference from the digital environment is that even the empirical part can be put into the realm of authenticity. In addition, the difference is that in the physical world, the integrity of most authenticated texts is verified, and in the digital world, the integrity of the information must be checked after the authenticity of the information is evaluated.

Virtually every decision about authenticity or integrity in a digital environment is ultimately up to trust. We identify claims or sources of claims for digital objects and assign a belief or confidence level to claims based on those sources. Furthermore, a more intelligent form of analysis can take into account the consistency of arguments and then further consider these arguments in the light of other contextual knowledge and common sense.

In the end, trust plays a key role, but it is often difficult to grasp. Watermarks and digital signatures are supported for this purpose, but they cannot fully prove authenticity and integrity. However, if more technologies are deployed and developed in the future and the infrastructure grows, it will be easy to manage integrity and authenticity. This requires economic costs and efforts to develop systems to build trust in a digital environment.