

# Change of the higher education paradigm in the context of digital transformation: From resource management to access control

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## Abstract

© 2020, Sciedu Press. All rights reserved. Digitalization and transition to a new technological structure bring humanity to another level of development. The changing technological structures, industry and society progress, enhance the importance of improving the university development model. The existing management system and infrastructure in universities are often outdated and unable to ensure their competitive and adequate functioning. Hence, the need to improve the processes of using the university infrastructure through digital technology. The composition and range of the resources should also be reviewed and supplemented with new components. The purpose of this work is to reveal the principles and requirements for improving the university infrastructure using digital technology. The methodology is based on modeling the university management system, with the concept of infrastructure logic as a core, meant to include new elements in the university management infrastructure: university stakeholders, cultural values, investments and translation. The management model transformation implies a transition from structural to infrastructural approach, from infrastructure management to managing the infrastructure logic. The digital network platform incorporating the information on all the infrastructure facilities, their status, will provide effective user access management to each university resource. The recommendations formulated to improve the university infrastructure using digital technology will make higher education more effective.

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## Keywords

Access control, Infrastructure logic, Resource management, University development strategy, University digital transformation, University digitalization, University infrastructure

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