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# «ASEDU-2020: Advances in Science, Engineering and Digital Education»

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«Essential characteristics,  
types of digital media  
and their use in education»

Valentina Mantulenko



Contradictions in the process of using digital media in education are between:

- the need to regulate the information saturation of training sessions and independent work of students and the variety, multidirectional information flows of different quality that affect the educational audience;
- multimedia nature of digital technologies and insufficient expression of the emotional component of educational interaction when using media;
- a strong motivational component of learning through new media (interest and media experience of students) and high requirements for self-discipline in the process of digital or distance learning;
- productivity provided by modern media, and the need to conduct double preparation for training sessions using media in case there are technical problems.



Essential  
features of  
digital media:

- multimedia
- modeling ability
- Interactivity
- communication
- high availability
- productivity
- user-generated content



## Opportunities for using digital media in education:

- modeling of the studied processes and phenomena,
- broad demonstration capabilities, the ability to demonstrate phenomena in dynamics;
- computer visualization of processes and phenomena inaccessible to direct perception;
- interactive management of simulated processes;
- individualization and differentiation of the learning process (development of individual educational trajectories);
- new scales of current and final control over students' cognitive activity, receiving and processing feedback;
- students can create their own content (productive media usage).

Individualized  
media  
consumption

Vs.

network  
communities  
(networking)

media literacy

Vs.

media culture

online format  
as value

Vs.

offline format  
as value



# Contacts

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