

Aktuelle Forschungs- und Praxisperspektiven zur Schriftpsychologie

- Kurzhinweise zu Themenfeldern -

- (1) Aktuelle kognitionspsychol. Forschungen Schnittstelle Laptop- vs. Handschriftaufzeichnung
 - (2) Neue Forschungsansätze zur Schreibanalyse
 - (3) Neue Forschungs- und Praxisperspektiven
-

(1) Aktuelle kognitionspsychol. Forschungen Schnittstelle Laptop- vs. Handschriftaufzeichnung

1 download vorh

Mueller, Pam A., and Daniel M. Oppenheimer. "The Pen Is Mightier Than the Keyboard Advantages of Longhand Over Laptop Note Taking." *Psychological science* (2014):

Taking notes on laptops rather than in longhand is increasingly common. Many researchers have suggested that laptop note taking is less effective than longhand note taking for learning. Prior studies have primarily focused on students' capacity for multitasking and distraction when using laptops. The present research suggests that even when laptops are used solely to take notes, they may still be impairing learning because their use results in shallower processing.

In three studies, we found that students who took notes on laptops performed worse on conceptual questions than students who took notes longhand. We show that whereas taking more notes can be beneficial, laptop note takers' tendency to transcribe lectures verbatim rather than processing information and reframing it in their own words is detrimental to learning

2 download vorh

Alonso, M. A. P. (2015). Metacognition and Sensorimotor Components Underlying the Process of Handwriting and Keyboarding and Their Impact on Learning. *An Analysis from the Perspective of Embodied Psychology. Procedia-Social and Behavioral Sciences*, 176, 263-269.

Digital writing devices such as the computer or the personal digital assistant are inundating the higher education classrooms around the globe. They have developed to indispensable learning tools and consequently the use of longhand in the education context is in continual detriment.

From the perspective of cognitive science the processes of typing and handwriting differ considerably. This paper firstly analyzes the highly complex nature of handwriting, further highlights the psycho neurological mechanisms involved in acquiring and practising this skill and points out the differences to typewriting. Finally, the author deliberates about how the use of the two different writing techniques may affect the learning outcome of students.

(2) Neue Forschungsansätze zur Schreibanalyse:

(nur Abstr vorh)

Ikegami, K., & Ohsawa, Y. (2014, December). Modeling of Writing and Thinking Process in Handwriting by Digital Pen Analysis. In *Data Mining Workshop (ICDMW), 2014 IEEE International Conference on* (pp. 447-454). IEEE.

In order to acquire infrequent events as new ideas and evaluate the ideas quantitatively, it is necessary to know how people create and refine ideas and to model creating and refining process. In this paper, we focused on relations between thinking time and writing time in handwriting, and proposed to model the relation by externalization, classification, relation, transportation and systematization, which are elements to make sentences. The relation depended on questions and formats of sheets. When sheets give participants the question answered by sentences, writing time become longer as thinking time is longer. On the other hand, if sheets give the question which could be answered only by words, writing time become shorter as thinking time is longer. We hypothesized that participants spent more time classifying, relating and transporting words in answering only by words than in answering by sentences. We could also confirm that when the same questions were given twice, writing time became longer and thinking time became shorter second time than first time. It was because enough externalizations were performed first time and participants spent less time externalizing second time.

(3) Neue Forschungs- und Praxisperspektiven

Tagungsflyer

Broaders, Sara C., and Michael Smutko. "Internet Usage During Class Associated With Lower Course Grades."

<http://www.weinberg.northwestern.edu/discover/news/2015/documents/electronic-devices-impact-classroom-broaders-smutko.pdf>

Sehr vielfältig

download vorh

Hirsh-Pasek, K., Zosh, J. M., Golinkoff, R. M., Gray, J. H., Robb, M. B., & Kaufman, J. (2015). Putting Education in "Educational" Apps Lessons From the Science of Learning. *Psychological Science in the Public Interest*, 16(1), 3-34.

<http://psi.sagepub.com/content/16/1/3.full.pdf+html>

download vorh

Mullins, Daniel A., Harvey Whitehouse, and Quentin D. Atkinson. "The role of writing and recordkeeping in the cultural evolution of human cooperation." *Journal of Economic Behavior & Organization* 90 (2013): S141-S151