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VERA - SEMINAR

von

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**Computerized Archaeology –
3D Tools for Investigating Archaeological Artifacts**

The computerized revolution poses challenges and creates new opportunities in archaeological research. The Computerized Archaeology Laboratory at the Hebrew University integrates techniques and ideas from computer science (e.g., computer graphics, machine learning) in the archaeological research methodologies. We operate optical scanners which provide the three dimensional (3D) digital models that are then analyzed with the computer programs developed in our laboratory. These programs address research issues and needs which could not be addressed without the availability of digital 3D models. Beyond ‘capturing’ and visualizing data, I will focus on the process of analysis and provide novel ways of interpretation. For example, recently we developed new ways for determining the degree of similarity between flakes from various Middle Paleolithic lithic assemblages in the Southern Levant. Preliminary results are promising since the methodology applied distinguished between assemblages not using the traditional techno-typological criteria. This may provide a novel method for clustering and separation of prehistoric assemblages, new means to check the validity of the traditional classification.

Donnerstag, 22. Oktober 2015, 16:30 Uhr

**1090 Wien, Währinger Str. 17, "Kavalierstrakt",
1. Stock, Victor-Franz-Hess-Hörsaal**