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Invited Paper

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"Correlation Techniques and Devices"

Abstract:

First a review of Image Correlation techniques is given according to the photogrammetrie and mathematical fundamentals as well as the techniques for video-conversion, correlation and rectification of videosignals.

Then the paper traces the historical development of automatic image correlation devices from the Hobrough Stereomat, via the Bunker Ramo Unamac to the Hobrough Gestalt System and the Bendix AS - 11 - BX.

Reference is made to the Rastar Correlator under development at the University of Hannover, based on designs by G. Hobrough and completed by D. Pape.

Finally other experimental attempts for image correlation, such as (coherent) optical correlation and digital off-line correlation are summarized.

The paper will be distributed to the ISP Congress participants.