

# AI for Digital Film Analysis

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# Overview

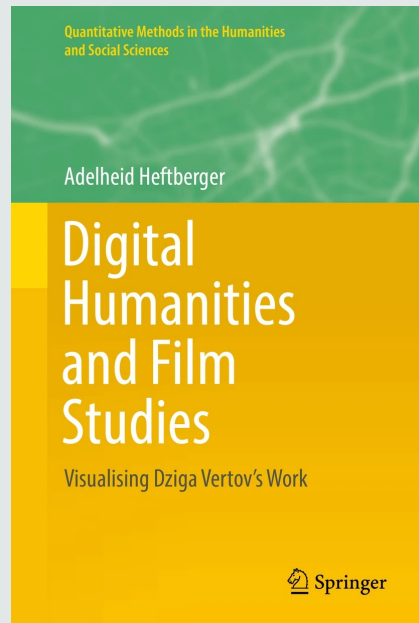
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- What is digital film analysis?
- State of Research
- Notebooks
- Conclusion and Relevance to Film Studies Discipline
- Next steps and further research

# What is Digital Film Analysis?

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Analysis of video or film stills through computational methods, eg. to investigate colours, shot length, or for annotation.

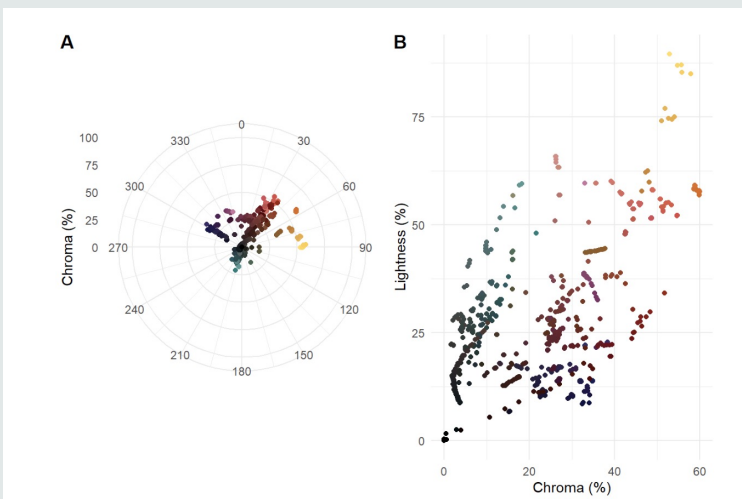


“This book highlights the quantitative methods of data mining and information visualization and explores their use in relation to the films and writings of the Russian director, Dziga Vertov.”

<https://link.springer.com/book/10.1007/978-3-030-02864-0>

# State of Research

- Film Analysis with R (Redfern Nick, 2022)
- Distant Viewing (Taylor Arnold&Lauren Tilton, 2019)
- Video annotation and analysis software (Anvil, TIB-AV-A,VIAN)



# Notebooks

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How can AI be integrated in Film Studies Research?

AI can be a support in the Film Analysis of the Mise-en-Scène, offering a description of the elements and their significance.

- Experiment 1: OpenAI
- Experiment 2: Anthropic
- Experiment 3: Huggingface model
- Experiment 4: LLamaIndex

# Conclusion and Relevance to Film Studies Discipline

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- LLMs are able to not only describe the image, but also offer a detailed Film Analysis.
- LLMs can detect which type of shot the film still is thanks to image classification.
- LLMs can provide significant support in the field of film analysis, serving as a valuable tool for advancing research in film studies.

# Next Steps and Further Research

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- Evaluation
- Train the model on a corpus of Film Analysis texts and on annotated film shots
- Deployment
- Distant Viewing Analysis
- Text-to-Image model

Thank you!

