

Proseminar

Wissenschaftliche Recherche & Präsentation

Mathias Lux

Universität Klagenfurt, Austria

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Video retargeting: automating pan and scan

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Authors: [Feng Liu](#) University of Wisconsin, Madison, Madison, WI
[Michael Gleicher](#) University of Wisconsin, Madison, Madison, WI

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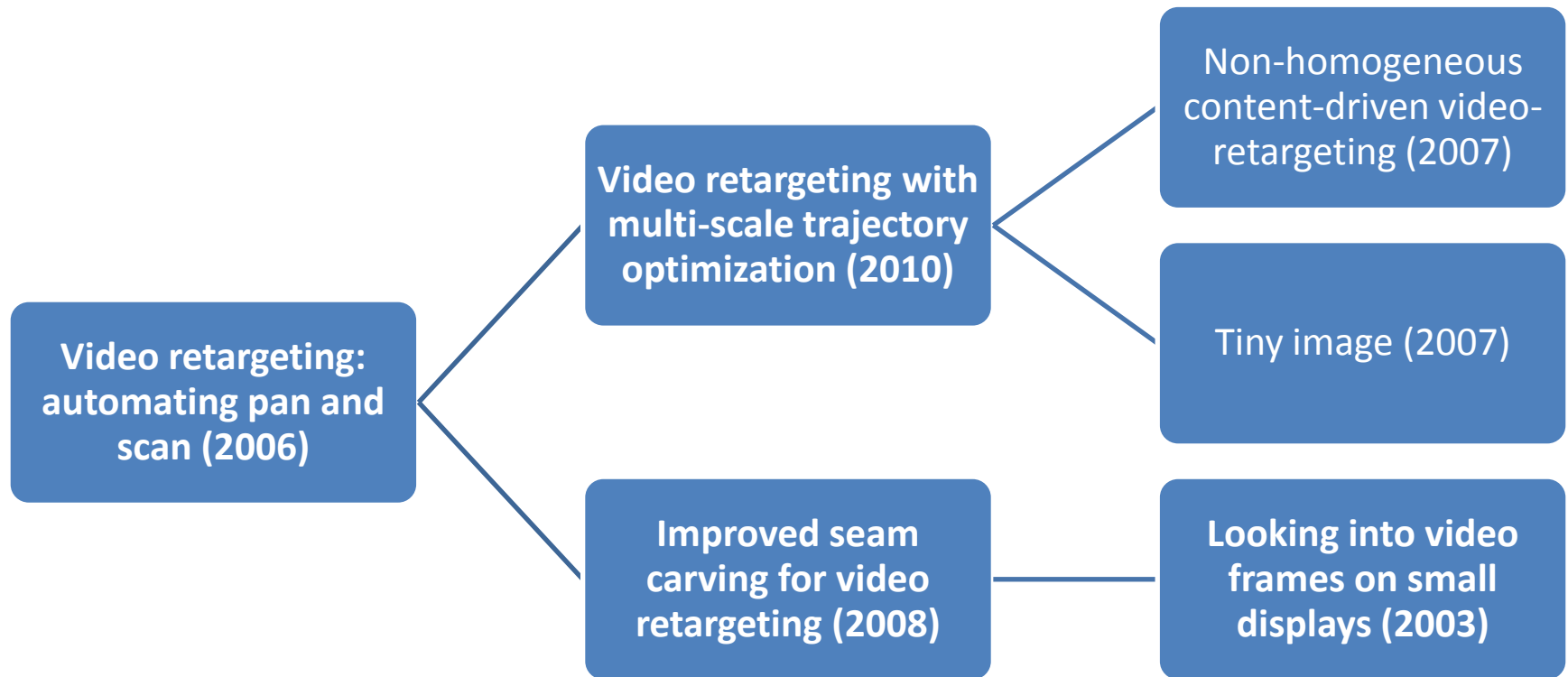
- [Yuanning Li , Yonghong Tian , Jingjing Yang , Ling-Yu Duan , Wen Gao. Video retargeting with multi-scale trajectory optimization, Proceedings of the international conference on Multimedia information retrieval, March 29-31, 2010, Philadelphia, Pennsylvania, USA](#)
- [Liang Shi , Jingqiao Wang , Lingyu Duan , Hangqing Lu. Sports video retargeting, Proceedings of the seventeen ACM international conference on Multimedia, October 19-24, 2009, Beijing, China](#)
- [Huiying Liu , Shuqiang Jiang , Qingming Huang , Changsheng Xu , Wen Gao. Region-based visual attention analysis with its application in image browsing on small displays, Proceedings of the 15th international conference on Multimedia, September 25-29, 2007, Augsburg, Germany](#)
- [Dieter Van Rijsselbergen , Barbara Van De Keer , Maarten Verwaest , Erik Mannens , Rik Van de Walle. On the implementation of semantic content adaptation in the drama manufacturing process, Proceedings of the 2009 IEEE international conference on Multimedia and Expo, p.822-825, June 28-July 03, 2009, New York, NY, USA](#)
- [Muhammad Abul Hasan , Changick Kim. An automatic image browsing technique for small display users, Proceedings of the 11th international conference on Advanced Communication Technology, p.2044-2049, February 15-18, 2009, Gangwon-Do, South Korea](#)
- [Michael Rubinstein , Ariel Shamir , Shai Avidan. Multi-operator media retargeting, ACM Transactions on Graphics \(TOG\), v.28 n.3, August 2009](#)
- [Michael Rubinstein , Ariel Shamir , Shai Avidan. Improved seam carving for video retargeting, ACM Transactions on Graphics \(TOG\), v.27 n.3, August 2008](#)

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Dept. of Comput. Sci., Nat. Tsing Hua Univ., Hsinchu, Taiwan

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ABSTRACT

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Abstract:

When a video is displayed on a smaller display than originally intended, some of the information in the video is necessarily lost. In this paper, we introduce Video Retargeting that adapts video to better suit the target display, minimizing the important information lost. We define a framework that measures the preservation of the source material, and methods for estimating the important information in the video. Video retargeting crops each frame and scales it to fit the target display. An optimization process minimizes information loss by balancing the loss of detail due to scaling with the loss of content and composition due to cropping. The cropping window can be moved during a shot to introduce virtual pans and cuts, subject to constraints that ensure cinematic plausibility. We demonstrate results of adapting a variety of source videos to small display sizes.

Citations

- 35 [Intelligent multi-shot visualization interfaces for dynamic 3d worlds](#) - Bares, Lester - 1999
- 6 [Automatic video production of lectures using an intelligent and aware environment](#) - Bianchi - 2004
- 2 [Grammar of the Film Language, Silman-James Press; Reprint edition](#) - Arjion - 1991

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BOOKMARKS

OPENURL

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[Video retargeting: automating pan and scan](#)

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F Liu... - [Proceedings of the 14th annual ACM ...](#), 2006 - [portal.acm.org](#)

ABSTRACT When a **video** is displayed on a smaller display than originally intended, some of the information in the **video** is necessarily lost. In this paper, we introduce **Video Retargeting** that adapts **video** to better suit the target display, minimizing the important information ...

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[Non-homogeneous content-driven video-retargeting](#)

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L Wolf, M Guttman... - 2007 - [computer.org](#)

... of the input frames are mapped into the first and last few columns of the **retargeted** frames, hence disappearing. ... (a) Original, (b) our **retarget** using L1-norm to half the width, (c) **retarget** using L2-norm, (d ... [3] F. Liu and M. Gleicher. **Video retargeting: automating pan and scan**. ...

[Zitiert durch: 89](#) - [Ähnliche Artikel](#) - [Alle 10 Versionen](#)

[Pan, zoom, scan—Time-coherent, trained automatic video cropping](#)

[\[PDF\] von psu.edu](#)

T Deselaers, P Dreuw... - [Computer Vision and Pattern ...](#), 2008 - [ieeexplore.ieee.org](#)

... Additionally, it is possible to learn a model that performs well on all types of **video** content. Related work. The problem of **automatic pan and scan** for **videos** was addressed in [10] and [13 ... The **video retargeting** is smoothed by adding constraints for consecutive frames. ...

[Zitiert durch: 15](#) - [Ähnliche Artikel](#) - [Alle 14 Versionen](#)

[A system for retargeting of streaming video](#)

P Krähnbühl, M Lang, A Hornung... - [ACM Transactions on ...](#), 2009 - [portal.acm.org](#)

... This allows us to **retarget** annotated **video** streams at a high quality to arbitrary aspect ratios while retaining the intended cinematographic scene composition. ... 17. Liu, F., and Gleicher, M. 2006.

Video retargeting: automating pan and scan. In *ACM Multimedia*, 241–250. ...

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Tuesday 10:00-11:00 except 10/26

I am a professor working in Computer Graphics and related areas (visualization, multimedia, animation, vision, ...). A brief [biography](#) will tell you how I got here. You can see a reasonably current [CV](#), but you probably are looking for select publications ([papers](#), [videos](#), [talks by project](#)), or a more complete list of [papers](#), [talks](#), or [videos](#) in date order. I'll try to keep a list of [project descriptions](#).

On this page: [things I'm working on](#), [teaching](#), [recent papers](#).

Here is my most recent attempt at summarizing my research interests:

How can we use our understanding of human perception and artistic traditions to improve our tools for communicating and data understanding.

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Präsentation



- Umgebung
- Aufbau & Inhalt
- Beispiele

Umgebung Meine Bühne



- Störfaktoren entfernen
 - Tafel löschen, Mülleimer, Overhead-Projektor, Flipcharts, Jacken
- Umgebung einrichten
 - Getränk, Computer, Kreide, Flipchart

Umgebung

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- Stehen statt Sitzen
 - Redner muss “aus der Masse stechen”
- Zum Publikum sprechen
 - Nicht zur Tafel oder in einen Monitor

Aufbau: Story



- Präsentation vermittelt eine Geschichte
- Geschichten haben
 - Einen Beginn
 - Einen roten Faden
 - Ein Ende

Aufbau: Folienlayout



- Lesbar (große Schrift)
 - Bestehende Templates sind gute Vorlagen
- Nicht zu viel Text
 - Lesen statt Zuhören?
- Visualisieren
 - Bild zu Text vs. Bild zu Sprache
 - Erklärend vs. unterstreichend

Aufbau: Inhalt



- Individuelle Geschwindigkeit
 - Folien pro Minute
- Planung auf Zielzeit
 - Einleitung & Motivation
 - Agenda
 - ...
 - Zusammenfassung / Schlussfolgerung
- Zusatzfolien
 - FAQ vorab beantworten (visuell)

Beispiel

Kevin Butler @ E3



- Fictional character promoting the PS3
- Note the speech
 - Speed
 - Intonation
 - Pauses
- <http://www.youtube.com/watch?v=mGZbJlpsohc>

Beispiel: Lawrence Lessig



- Law professor
- Creative commons
- Known for his presentations
- Note his
 - unique style
 - expressiveness of the slides cp. to the speech
 - synchronization to the slides
- http://www.ted.com/talks/larry_lessig_says_the_law_is_strangling_creativity.html

Beispiel: Dick Hardt - Identity 2.0



- Adaptation of Lessig's style
- Note the speed
- Note the contradictions
- <http://www.youtube.com/watch?v=RrpajcAgR1E>

Beispiel: Scribble Video



- Not using powerpoint ...
- <http://www.youtube.com/watch?v=wRe2TKOLIGA>