

New Media

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Outline

- I. Rules of Engagement
- II. New Media @ VISGRAF Lab.
- III. the NET and Beyond...

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I - Rules of Engagement

- Definitions
- Basic Framework
- Authoring
- Technology
- Design

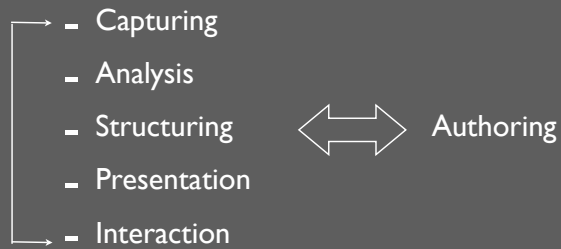
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New Media

- Digital Data
 - Images / Video
 - Sound / Music
- Mobile
 - Wireless / Distributed
 - Geo-referenced
- Interactive !

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Basic Framework



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Authoring

- Rule Based
 - Procedural
- Probabilistic
 - Statistics
- Cognitive
 - Learning

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Technology

- Hardware
 - Capture
 - Presentation
- Software
 - Analysis
 - Synthesis
- ➔ Interaction

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Design

- Application
- Content
- Interface

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2 - VISGRAF Lab

- Computational Music
- Interactive Dance
- Generative Video
- Immersive Panoramas

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Computational Music

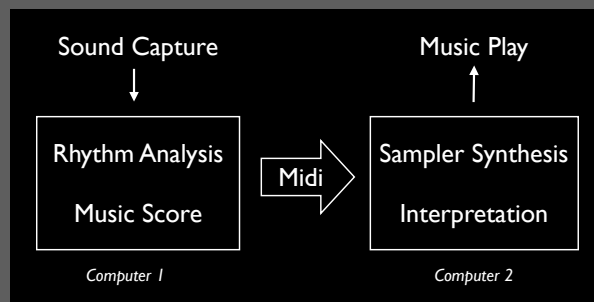
- *New Area at the Lab*
- Interactive Performance / Improvisation
 - Sergio Krakowsky, Ph.D. Student
 - Collaboration with Sony Labs, France
- Percussion & Rhythm

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Pandeiro +



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Interactive Dance

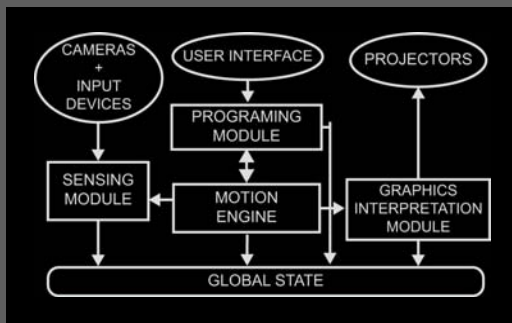
- Interactive Dance
 - Alice Bodanzky (ESDI) / Julio Lucio
 - Collaboration with Analivia Cordeiro
- Motion Capture & Animation

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X-Motion System



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Generative Video

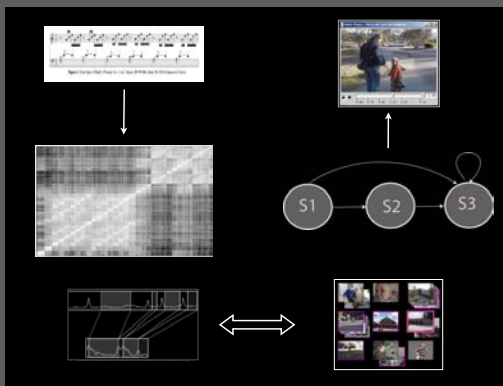
- Automatic Video Generation
 - Anderson Mayrink, Ph.D Student
 - Collaboration with IME / USP
- Stochastic Models & Learning

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V-Sound

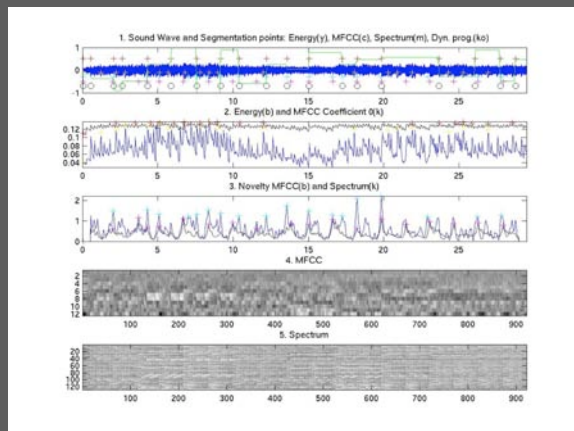


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Analysis Data



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Immersive Panoramas

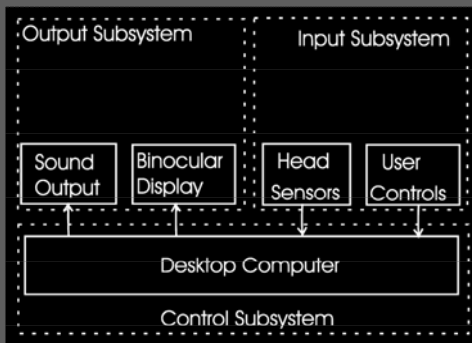
- Interactive Narratives
 - Andre Mattos, Ms. Student
 - Sergio Pineiro, Ph.D. Student
 - Collaboration with ECO-UFRJ / Digitok
- Omnidirectional Images & Video

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Visorama



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3 - the NET

➔ *From Data Deluge to Image Collections...*

- Course at IMPA



* Questions to Ask

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Community Photos

- Data Mining
 - [Google Images](#) / [Pandora](#) / [PicLens](#)
- Content Generation
 - [Picassa](#) / [iPhone](#) / and etc.
- Contests and Exhibitions
 - [Wired](#) / [Flickr](#) / and more...

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More than Pictures

- Image Mosaics
 - Panoramas
 - [Gigapan](#)
 - Multi-Perspective
 - [Panography](#)
- ➡ Structuring & Navigation

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Finding Paths Through the World's Photos

Noah Snavely
Rahul Garg
Steven M. Seitz

Richard Szeliski

University of Washington

Microsoft Research

SIGGRAPH 2008

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What Next ?