

VISGRAF Laboratory

Visual Computing @ IMPA

Outlook

- Land of Ideas
 - A Little History
 - We the People
 - Some Projects
 - Innovations
- 

Land of Ideas



A Little History

37+ Years in the Making!

VISGRAF 21 ANOS

MOSTRA DE TRABALHOS
DO VISGRAF LAB
24/01 a 28/02

INTRODUÇÃO

EXPOSIÇÃO

EVENTOS PARALELOS

LINKS

IMAGENS

EBOOKS

CONTATO

O Laboratório Visgraf foi criado em 1989 no Impa (Instituto Nacional de Matemática Pura e Aplicada) com o objetivo de realizar pesquisas nas áreas de Visão, Computação Gráfica e Multimídia. Ao longo destes 21 anos, o Visgraf se consolidou como um núcleo de excelência em Computação Gráfica de reconhecida importância no cenário internacional, e é hoje uma das principais referências para a divulgação e o desenvolvimento da área no Brasil. Este evento visa comemorar os 21 anos do Visgraf e apresentar um panorama da atuação do Laboratório, com uma retrospectiva das atividades realizadas e dos resultados obtidos até o presente.



30TH ANNIVERSARY OF VISGRAF

In 2019, the Vision and Graphics (Visgraf) of the Institute of Pure and Applied Mathematics (IMPA) completes 30 years. This website is a tribute to those who, somehow, are part of the history of the Laboratory.

PEOPLE FROM VISGRAF



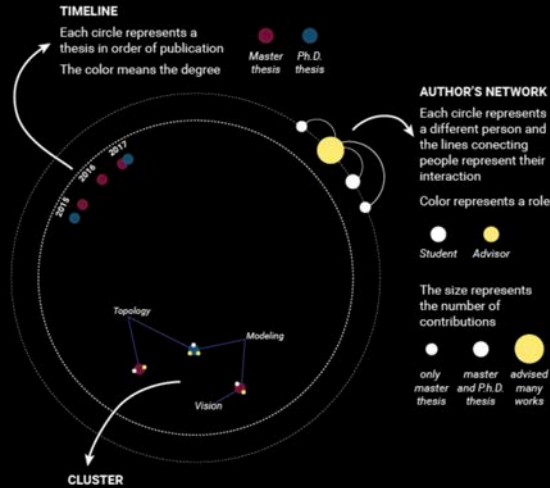
We The People

Visgraf's theses database

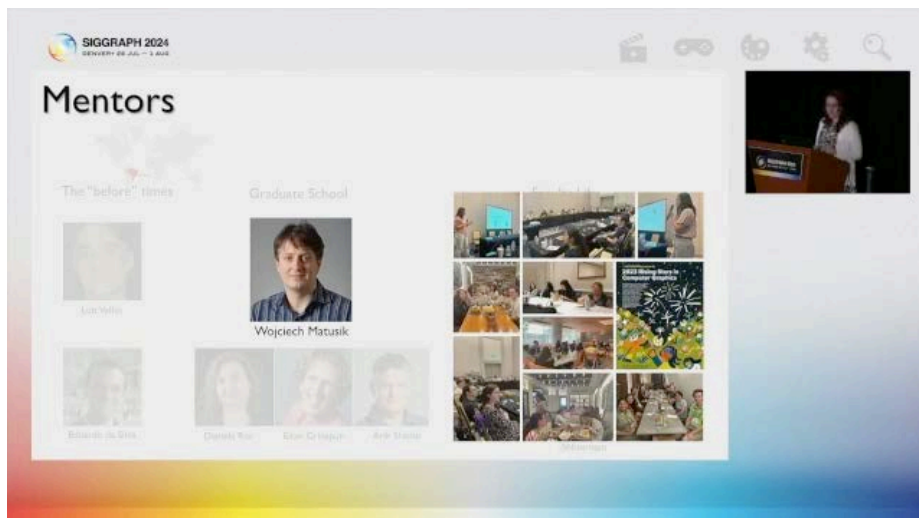
A visual exploration of the Master and Ph.D Theses elaborated at the Vision and Computer Graphics Laboratory ([Visgraf-IMPA](#)) from 1990 to 2017.

This visualization is best viewed in 1024x768 resolution.

Master Theses All Theses Ph.D. Theses



Highlight

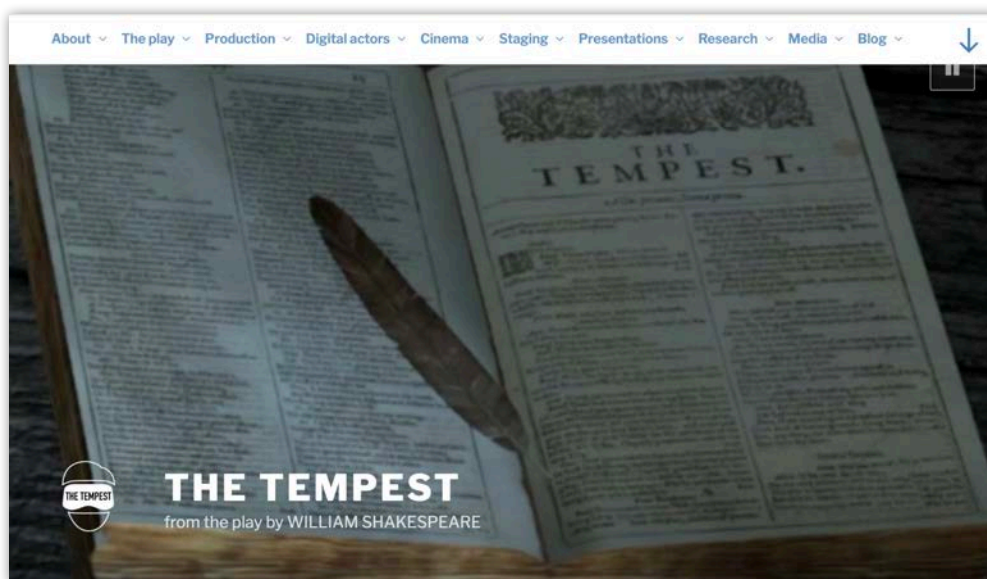


- Adriana Schulz - SIGGRAPH Significant New Researcher Award 2024



Some Projects

VR Kino-Theater



VR Tour - Testimonies

Carlos Diegues

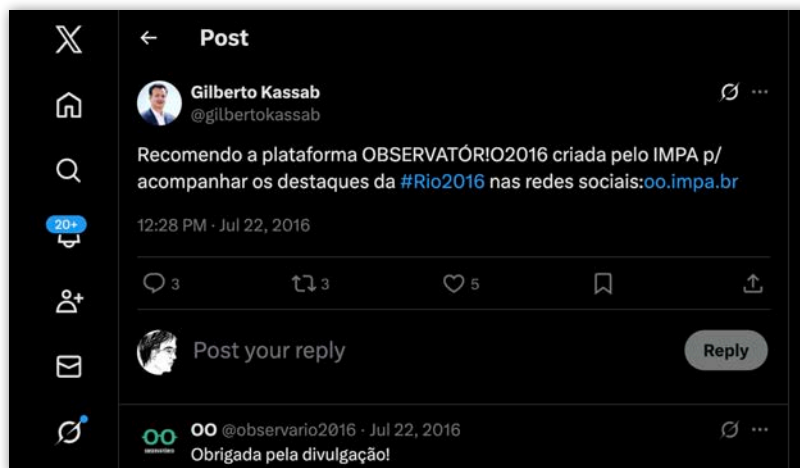
25/01/2019



R!O2016



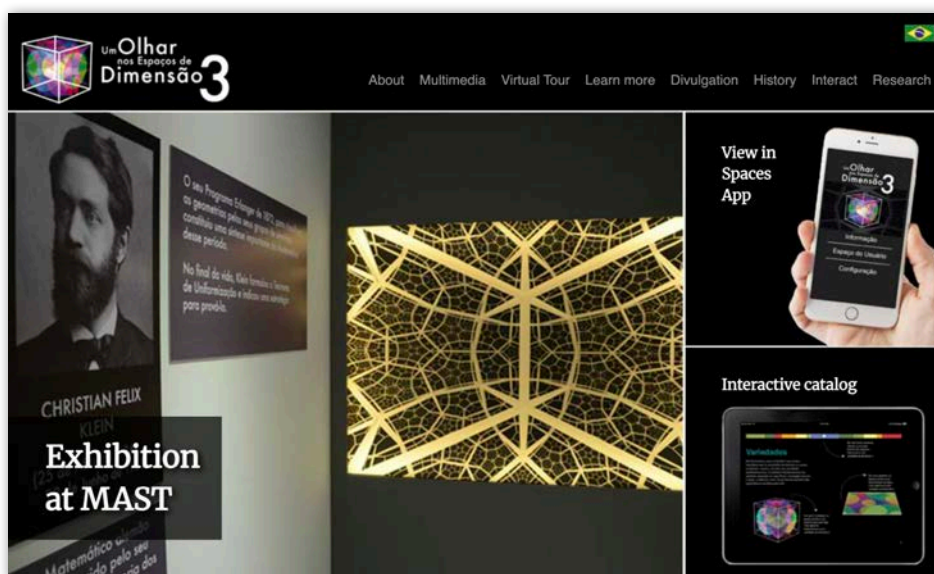
Comments on Social Media



- Gilberto Kassab - Ministro Ciencia, Tecnologia, Inovação e Comunicação



View in 3D Spaces



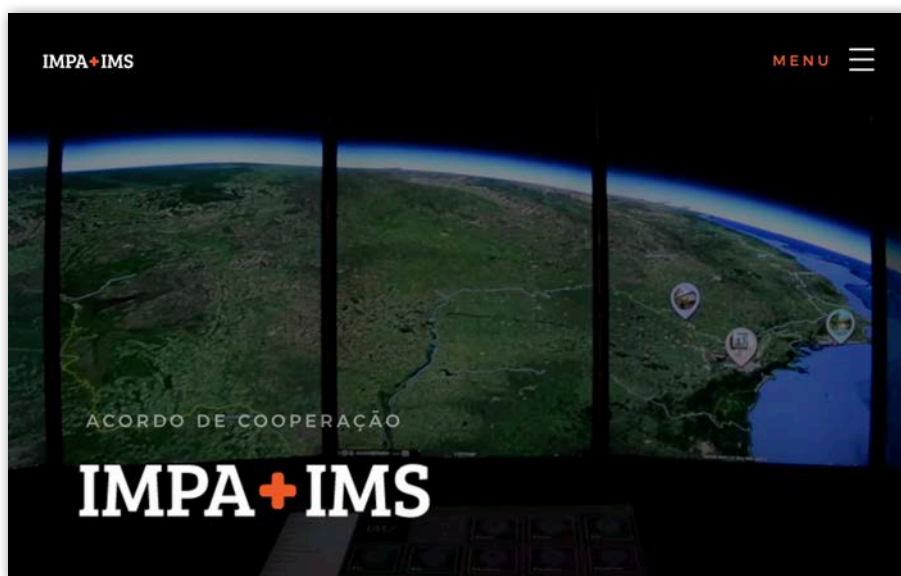
The Exhibit



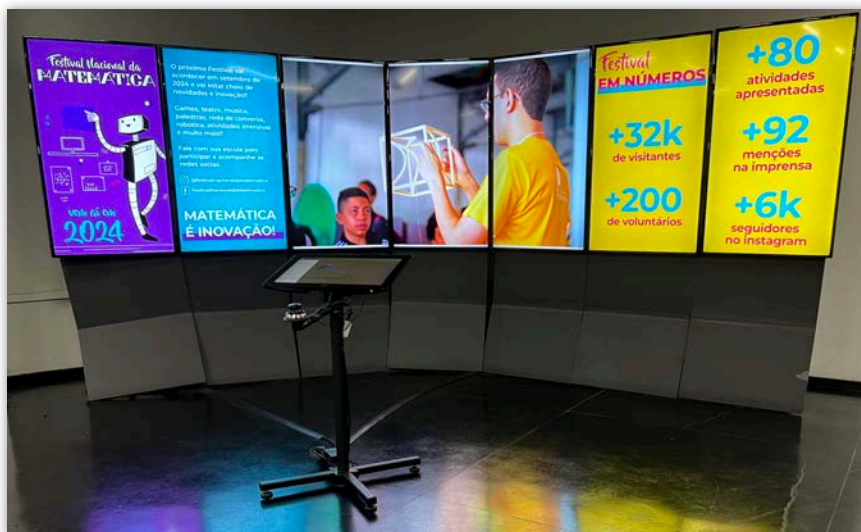
- MAST - Museu de Astronomia (2015 - 2019)



IMPA - IMS



Liquid Galaxy



- VisionPort @ IMPA (2022 -)

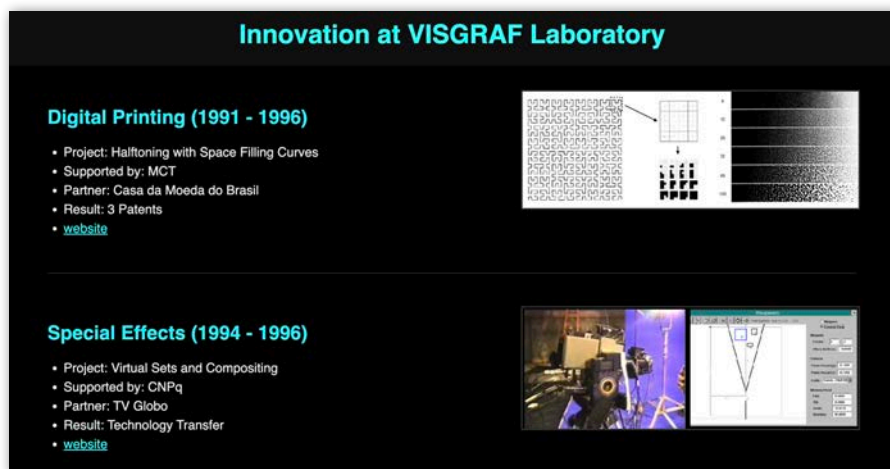
Innovations

Timeline

- Digital Printing (1991 - 1996)
- Special Effects (1994 -1996)
- Virtual Reality (1997 - 2010)
- Medical Imaging (2000 - 2002)
- Digital Animation (2002 - 2005)
- Computational Photography (2003 - 2007)
- Multiresolution Models (2004 - 2005)
- Games (2004 - 2006)
- Natural Interfaces (2010 - 2014)
- 360 Panoramas (2010 - 2011)
- Augmented Reality (2010 - 2012)
- Data Visualization (2012 - 2013)
- Mobile Computing (2013 - 2014)
- Computer Music (2017)

✱ *Neural Media / Expanded Reality (ongoing)*

Documentation



Innovation at VISGRAF Laboratory

Digital Printing (1991 - 1996)

- Project: Halftoning with Space Filling Curves
- Supported by: MCT
- Partner: Casa da Moeda do Brasil
- Result: 3 Patents
- [website](#)

Special Effects (1994 - 1996)

- Project: Virtual Sets and Compositing
- Supported by: CNPq
- Partner: TV Globo
- Result: Technology Transfer
- [website](#)

- VISGRAF Lab - Web Portal



Motto

Mathematics, Art, a bit of Technology and a lot of Passion



“That’s all folks !”

– Johnny Appleseed