

# Visualisation of Eye Tracking Data

Roy G. Biv, Ed Grimley, *Member, IEEE*, and Martha Stewart



Fig. 1. Teaser figure caption. Note that the teaser may not be wider than the abstract block.

**Abstract**—Abstract should contain: short introduction, short description and short conclusion of the whole project.

**Index Terms**—keywords inserted here

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## 1 INTRODUCTION

template set-up The numbered sections of the report are the actual template that we (the group) need to fill in and write. The rest of the text below the set-up, are more examples that can be helpful when writing the report as it needs to be done in a very specific way.

In the introduction, the project needs to be introduced. In needs to be explained what the project should contain, the demands the customer made, what SCRUM is, etc etc

## 2 RELATED WORK

In this section, an overview of related projects needs to be given. It needs to be explained what those websites or tools do and how or not that differs from our project.

## 3 DATA MODEL AND DATA PROCESSING

Here, the data set structure and how it is changed and manipulated to work with it needs to be explained.

Subsections may be necessary here.

## 4 THE VISUALISATION TOOL

In this section we present the actual visualization application that we have developed.

## 4.1 Design Decisions

Here a list of criteria is given

## 4.2 Graphical User Interface

Explain what the user can do basically. So, this describes the different options for the user.

## 4.3 Visualisation Techniques and Algorithms

Here the 4 different visualisations are explained.

## 4.4 Interaction techniques

## 5 APPLICATION EXAMPLE

Give some concrete examples of the visualisations and explain some of the outcomes globally.

## 6 DISCUSSION AND LIMITATIONS

In this section improvements and limitations need to be discussed.

## 7 CONCLUSION AND FUTURE WORK

Give a summary of the project and further implementations.

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## INTRODUCTION

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**Note 2:** the “-narrow” versions of the bibliography style use the font “PTSansNarrow-TLF” for typesetting the DOIs in a compact way. This font needs to be available on your L<sup>A</sup>T<sub>E</sub>X system. It is part of the “paratype” package, and many distributions (such as MikTeX) have it automatically installed. If you do not have this package yet and want to use a “-narrow” bibliography style then use your L<sup>A</sup>T<sub>E</sub>X system’s package installer to add it. If this is not possible you can also revert to the respective bibliography styles without the “-narrow” in the file name.

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- use journal names in proper style: correct: “IEEE Transactions on Visualization and Computer Graphics”, incorrect: “Visualization and Computer Graphics, IEEE Transactions on”

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## EXAMPLE SECTION

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Table 1. VIS/VisWeek accepted/presented papers: 1990–2016.

	Vis/SciVis	SciVis conf	InfoVis	VAST	VAST conf	TVCG @ VIS	CG&A @ VIS	VIS/VisWeek incl. TVCG/CG&A	VIS/VisWeek w/o TVCG/CG&A
2016 for comment	30		37	33	15	23	10	148	115
2015 submitted	33	9	38	33	14	17	15	159	127
2014	34		45	33	21	20		153	133
2013	31		38	32		20		121	101
2012	42		44	30		23		139	116
2011	49		44	26		20		139	119
2010	48		35	26				109	109
2009	54		37	26				117	117
2008	50		28	21				99	99
2007	56		27	24				107	107
2006	63		24	26				113	113
2005	88		31					119	119
2004	70		27					97	97
2003	74		29					103	103
2002	78		23					101	101
2001	74		22					96	96
2000	73		20					93	93
1999	69		19					88	88
1998	72		18					90	90
1997	72		16					88	88
1996	65		12					77	77
1995	56		18					74	74
1994	53							53	53
1993	55							55	55
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sum	1545	9	632	310	50	123	25	2694	2546

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<sup>1</sup>The algorithm behind Marching Cubes [?] had already been described by Wyvill et al. [?] a year earlier.

<sup>2</sup>Footnotes appear at the bottom of the column.

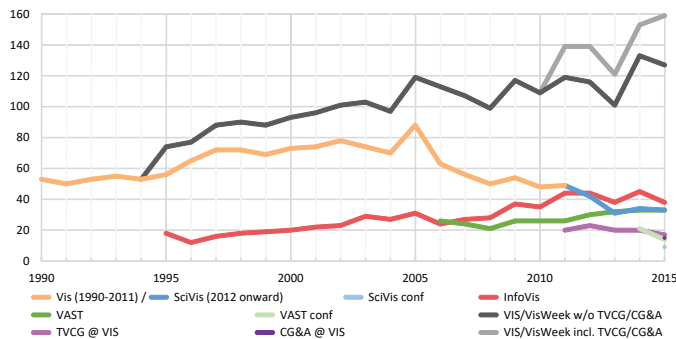


Fig. 2. A visualization of the 1990–2015 data from Table 1. The image is from [?] and is in the public domain.

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## 8 CONCLUSION

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## ACKNOWLEDGMENTS

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