

# **2018 IEEE VIS Arts Program (VISAP 2018)**

**Berlin, Germany  
23-26 October 2018**



**IEEE Catalog Number: CFP18M79-POD  
ISBN: 978-1-7281-2806-1**

**Copyright © 2018 by the Institute of Electrical and Electronics Engineers, Inc.  
All Rights Reserved**

*Copyright and Reprint Permissions:* Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

***\*\*\* This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP18M79-POD
ISBN (Print-On-Demand):	978-1-7281-2806-1
ISBN (Online):	978-1-7281-2805-4

**Additional Copies of This Publication Are Available From:**

Curran Associates, Inc  
57 Morehouse Lane  
Red Hook, NY 12571 USA  
Phone: (845) 758-0400  
Fax: (845) 758-2633  
E-mail: [curran@proceedings.com](mailto:curran@proceedings.com)  
Web: [www.proceedings.com](http://www.proceedings.com)

CURRAN ASSOCIATES INC.  
**proceedings**  
.com

# Proceedings of the IEEE VIS Arts Program (VISAP) 2018

Berlin, Germany | October 23–26, 2018  
<https://visap.net/2018/>

## Editors

Jeremy Boy, United Nations Global Pulse  
[myjyby@gmail.com](mailto:myjyby@gmail.com) | <http://jyby.eu>

Till Nagel, Mannheim University of Applied Sciences  
[t.nagel@hs-mannheim.de](mailto:t.nagel@hs-mannheim.de) | <http://tillnagel.com>

## Overview

The IEEE VIS 2018 Arts Program, or VISAP'18, showcases innovative artwork and research that explores the exciting and increasingly prominent intersections between art, design, and visualization. Through a dedicated papers track and an exhibition that runs concurrently with the IEEE VIS 2018 conference, the Arts Program aims to foster new thinking, discussion, and collaboration between artists, designers, technologists, visualization scientists, and others working at the intersection of these fields.

## Papers

### Session 1: Arts and Society

Chair: Jeremy Boy

- Paper: Seeking New Ways to Visually Represent Uncertainty in Data.....1  
Aaron Hill, Clare Churchouse, Michael Schober
- Paper: Art, Affect and Color: Creating Engaging Expressive Scientific Visualizations.....9  
Francesca Samsel, Lyn Bartram, Annie Bares

### Session 2: Paths and Memories

Chair: Till Nagel

- Paper: Nostalgia: A Human-Machine Transliteration .....18  
Raphael Arar
- Paper: Shifted Maps: Revealing Spatio-Temporal Topologies in Movement Data .....23  
Heike Otten, Lennart Hildebrand, Till Nagel, Marian Dörk, Boris Müller