

2019 IEEE Visualization in Data Science (VDS 2019)

**Vancouver, British Columbia, Canada
20 October 2019**



**IEEE Catalog Number: CFP19M80-POD
ISBN: 978-1-7281-5048-2**

**Copyright © 2019 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:	CFP19M80-POD
ISBN (Print-On-Demand):	978-1-7281-5048-2
ISBN (Online):	978-1-7281-5047-5

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
Web: www.proceedings.com

CURRAN ASSOCIATES INC.
proceedings
.com

2019 IEEE Visualization in Data Science (VDS)

Papers

Application I

Albireo: An Interactive Tool for Visually Summarizing Computational Notebook Structure.....	1
John Wenskovitch, Jian Zhao, Scott Carter, Matthew Cooper, Chris North	

Application II

DELFI: Mislabelled Human Context Detection Using Multi-Feature Similarity Linking	11
Hamid Mansoor, Walter Gerych, Luke Buquicchio, Kavin Chandrasekaran, Emmanuel Agu, Elke Rundensteiner	
A Visual Analytics Framework for Analyzing Parallel and Distributed Computing Applications	20
Jianping Kelvin Li, Takanori Fujiwara, Suraj P. Kesavan, Caitlin Ross, Misbah Mubarak, Christopher D. Carothers, Robert B. Ross, Kwan-Liu Ma	

Encoding

Outliagnostics: Visualizing Temporal Discrepancy in Outlying Signatures of Data Entries.....	29
Vung Pham, Tommy Dang	
Pollux: Interactive Cluster-First Projections of High-Dimensional Data	38
John Wenskovitch, Chris North	

Perception

Sherpa: Leveraging User Attention for Computational Steering in Visual Analytics	48
Zhe Cui, Jayaram Kancherla, Héctor Corrada Bravo, Niklas Elmqvist	
Task-Oriented Optimal Sequencing of Visualization Charts.....	58
Danqing Shi, Yang Shi, Xinyue Xu, Nan Chen, Siwei Fu, Hongjin Wu, Nan Cao	