Silvia Miksch

List of Publications by Citations

74 papers	2,512 citations	24 h-index	49 g-index
81 ext. papers	3,048 ext. citations	2.7 avg, IF	5 L-index

#	Paper	IF	Citations
74	Comparing computer-interpretable guideline models: a case-study approach. *Journal of the American Medical Informatics Association: JAMIA*, **2003**, 10, 52-68	8.6	340
73	Visualization of Time-Oriented Data. *Human-computer Interaction Series*, **2011**,	0.6	335
72	The Asgaard project: a task-specific framework for the application and critiquing of time-oriented clinical guidelines. *Artificial Intelligence in Medicine*, **1998**, 14, 29-51	7.4	291
71	Visualizing time-oriented data—A systematic view. *Computers and Graphics*, **2007**, 31, 401-409	1.8	191
70	Visual methods for analyzing time-oriented data. *IEEE Transactions on Visualization and Computer Graphics*, **2008**, 14, 47-60	4	143
69	Characterizing Guidance in Visual Analytics. *IEEE Transactions on Visualization and Computer Graphics*, **2017**, 23, 111-120	4	88
68	Utilizing temporal data abstraction for data validation and therapy planning for artificially ventilated newborn infants. *Artificial Intelligence in Medicine*, **1996**, 8, 543-76	7.4	85
67	A matter of time: Applying a data–users–tasks design triangle to visual analytics of time-oriented data. *Computers and Graphics*, **2014**, 38, 286-290	1.8	65
66	Metaphors of movement: a visualization and user interface for time-oriented, skeletal plans. *Artificial Intelligence in Medicine*, **2001**, 22, 111-31	7.4	58
65	Visual Methods for Analyzing Probabilistic Classification Data. *IEEE Transactions on Visualization and Computer Graphics*, **2014**, 20, 1703-12	4	50
64	The State-of-the-Art of Set Visualization. *Computer Graphics Forum*, **2016**, 35, 234-260	2.4	48
63	PlanningLines: novel glyphs for representing temporal uncertainties and their evaluation		44
62	Radial sets: interactive visual analysis of large overlapping sets. *IEEE Transactions on Visualization and Computer Graphics*, **2013**, 19, 2496-505	4	41
61	Visualization of Cultural Heritage Collection Data: State of the Art and Future Challenges. *IEEE Transactions on Visualization and Computer Graphics*, **2019**, 25, 2311-2330	4	41
60	How can information extraction ease formalizing treatment processes in clinical practice guidelines? A method and its evaluation. *Artificial Intelligence in Medicine*, **2007**, 39, 151-63	7.4	36
59	Viewing Visual Analytics as Model Building. *Computer Graphics Forum*, **2018**, 37, 275-299	2.4	35
58	Visual Encodings of Temporal Uncertainty: A Comparative User Study. *IEEE Transactions on Visualization and Computer Graphics*, **2016**, 22, 539-48	4	31

57	A Survey on Visual Approaches for Analyzing Scientific Literature and Patents. *IEEE Transactions on Visualization and Computer Graphics*, **2017**, 23, 2179-2198	4	31
56	Versioning computer-interpretable guidelines: semi-automatic modeling of 'Living Guidelines' using an information extraction method. *Artificial Intelligence in Medicine*, **2009**, 46, 55-66	7.4	31
55	A Taxonomy of Dirty Time-Oriented Data. *Lecture Notes in Computer Science*, **2012**, 58-72	0.9	30
54	CareCruiser: Exploring and visualizing plans, events, and effects interactively **2011**,		28
53	To score or not to score? Tripling insights for participatory design. *IEEE Computer Graphics and Applications*, **2009**, 29, 29-38	1.7	28
52	Visual analytics for model selection in time series analysis. *IEEE Transactions on Visualization and Computer Graphics*, **2013**, 19, 2237-46	4	27
51	A visual analytics approach to dynamic social networks **2011**,		27
50	EVA: Visual Analytics to Identify Fraudulent Events. *IEEE Transactions on Visualization and Computer Graphics*, **2018**, 24, 330-339	4	23
49	TimeCleanser **2014**,		23
48	Task Cube: A three-dimensional conceptual space of user tasks in visualization design and evaluation. *Information Visualization*, **2016**, 15, 288-300	2.4	20
47	Temporal Multivariate Networks. *Lecture Notes in Computer Science*, **2014**, 151-174	0.9	19
46	Visual analytics for event detection: Focusing on fraud. *Visual Informatics*, **2018**, 2, 198-212	2.8	18
45	Reinventing the Contingency Wheel: Scalable Visual Analytics of Large Categorical Data. *IEEE Transactions on Visualization and Computer Graphics*, **2012**, 18, 2849-58	4	17
44	Analysing Interactivity in Information Visualisation. *KI - Kunstliche Intelligenz*, **2012**, 26, 151-159	1.8	17
43	Hierarchical Temporal Patterns and Interactive Aggregated Views for Pixel-Based Visualizations **2009**,		17
42	TimeBench: a data model and software library for visual analytics of time-oriented data. *IEEE Transactions on Visualization and Computer Graphics*, **2013**, 19, 2247-56	4	15
41	A theoretical model for pattern discovery in visual analytics. *Visual Informatics*, **2021**, 5, 23-42	2.8	15
40	The Role of Explicit Knowledge: A Conceptual Model of Knowledge-Assisted Visual Analytics **2017**,		14

39	Visual Exploration of Time-Oriented Patient Data for Chronic Diseases: Design Study and Evaluation. *Lecture Notes in Computer Science*, **2011**, 301-320	0.9	13
38	Qualizon graphs **2014**,		10
37	Patient Development at a Glance: An Evaluation of a Medical Data Visualization. *Lecture Notes in Computer Science*, **2011**, 292-299	0.9	10
36	Mind the time: Unleashing temporal aspects in pattern discovery. *Computers and Graphics*, **2014**, 38, 38-50	1.8	9
35	Visualizations at First Sight: Do Insights Require Training?. *Lecture Notes in Computer Science*, **2008**, 261-280	0.9	9
34	Visual Analytics for fraud detection and monitoring **2015**,		7
33	Guide Me in Analysis: A Framework for Guidance Designers. *Computer Graphics Forum*, **2020**, 39, 269-288	2.4	7
32	Capturing and Visualizing Provenance From Data Wrangling. *IEEE Computer Graphics and Applications*, **2019**, 39, 61-75	1.7	6
31	Visually and statistically guided imputation of missing values in univariate seasonal time series **2015**,		6
30	Supporting activity recognition by visual analytics **2015**,		6
29	Bertin was Right: An Empirical Evaluation of Indexing to Compare Multivariate Time-Series Data Using Line Plots. *Computer Graphics Forum*, **2011**, 30, 215-228	2.4	6
28	Visual Interactive Creation, Customization, and Analysis of Data Quality Metrics. *Journal of Data and Information Quality*, **2018**, 10, 1-26	2.5	6
27	Gone full circle: A radial approach to visualize event-based networks in digital humanities. *Visual Informatics*, **2021**, 5, 45-60	2.8	5
26	Toward flexible visual analytics augmented through smooth display transitions. *Visual Informatics*, **2021**,	2.8	5
25	Sabrina: Modeling and Visualization of Financial Data over Time with Incremental Domain Knowledge **2019**,		5
24	How Do You Connect Moving Dots? Insights from User Studies on Dynamic Network Visualizations **2014**, 623-650		5
23	A Nested Workflow Model for Visual Analytics Design and Validation **2016**,		4
22	Cycle Plot Revisited: Multivariate Outlier Detection Using a Distance-Based Abstraction. *Computer Graphics Forum*, **2017**, 36, 227-238	2.4	4

21	Tutorial: Introduction to Visual Analytics **2007**, 453-456		4
20	Hermes: Guidance-enriched Visual Analytics for economic network exploration. *Visual Informatics*, **2020**, 4, 11-22	2.8	3
19	CV3: Visual Exploration, Assessment, and Comparison of CVs. *Computer Graphics Forum*, **2019**, 38, 107-118	2.4	3
18	Visual support for rastering of unequally spaced time series **2017**,		3
17	User tasks for evaluation **2014**,		3
16	Evaluation of Two Interaction Techniques for Visualization of Dynamic Graphs. *Lecture Notes in Computer Science*, **2016**, 557-571	0.9	3
15	NEVA: Visual Analytics to Identify Fraudulent Networks. *Computer Graphics Forum*, **2020**, 39, 344-359	2.4	3
14	Analyzing parameter influence on time-series segmentation and labeling **2014**,		2
13	Experiences and challenges with evaluation methods in practice **2014**,		2
12	Vertigo zoom **2012**,		2
11	Many Views Are Not Enough: Designing for Synoptic Insights in Cultural Collections. *IEEE Computer Graphics and Applications*, **2020**, 40, 58-71	1.7	2
10	Design and Evaluation of an Interactive Visualization of Therapy Plans and Patient Data		2
9	TimeGraph: A data management framework for visual analytics of large multivariate time-oriented networks **2014**,		1
8	Mapping the Users Problem Solving Strategies in the Participatory Design of Visual Analytics Methods. *Lecture Notes in Computer Science*, **2010**, 1-13	0.9	1
7	Interactive Visual Transformation for Symbolic Representation of Time-Oriented Data. *Lecture Notes in Computer Science*, **2013**, 400-419	0.9	1
6	You get by with a little help: The effects of variable guidance degrees on performance and mental state. *Visual Informatics*, **2019**, 3, 177-191	2.8	1
5	Knowledge-Assisted Visualization and Guidance **2020**, 61-85		0
4	VAIM: Visual Analytics for Influence Maximization. *Lecture Notes in Computer Science*, **2020**, 115-123	0.9	0

3	Updating a Protocol-Based Decision-Support System's Knowledge Base: A Breast Cancer Case Study. *Lecture Notes in Computer Science*, **2011**, 126-138	0.9
2	Visualization Aspects. *Human-computer Interaction Series*, **2011**, 69-103	0.6
1	Evaluating the Dot-Based Contingency Wheel: Results from a Usability and Utility Study. *Lecture Notes in Computer Science*, **2014**, 76-86	0.9