

Index

- 2D saliency map, 191
- 3D saliency volume, 192
- 3D stimuli, 170

- abstracting eye-tracking data, 28
- accuracy, 169
- Adaptive Control of Thought–Rational (ACT-R), 97
- alpha filtering, 49
- alpha patches, 48
- analysis task, 4, 8
 - participant-based, 12
 - space-based, 9
 - time-based, 10
- animation, 101
 - virtual human, 101
- area of interest (AOI), 6, 116, 138, 238, 241, 245
- attention coefficient, 219
- attention map, 4, 58, 61, 119

- calibration, 179
- checklist design, 41
- collective analysis, 236, 240
- computational cognitive model, 94
 - Response-Boundary Interleaving (RBI), 104
 - Task-Boundary Interleaving (TBI), 104
- computational models, 248
- consistency, 247
- coordinated multi-view visualization, 23, 27
- coverage, 240, 246

- data analysis, v, 4
- density-based clustering, 157, 164
- depth estimation, 171
- digital manufacturing, 170
- direct volume rendering, 185
- dwel sequence, 153, 159
- dynamic time warping, 31

- electrooculography (EOG), 152
- emotion regulation strategies, 25
- engagement, 242
- epsilon filtering, 49
- error model, 170
- ETVIS Workshop, vi
- evaluation, v
- Eye Movements and Movement of Attention (EMMA), 97

- fiducial markers, 170
- filtered-back-projection (FBP), 190
- Fitts' law, 77
- fixation clustering, 153, 164, 165
- fixation duration, 241, 243
- fixations, 138
 - ambient, 217
 - focal, 217
- fulldome video, 67

- Gaussian mixture model, 158, 165
- Gaussian process, 73, 84
- gaze pattern, 138
- gaze plot, 4

- gaze-contingent, 132
- gazemarks, 133
- gazeteer, 135
- geographic Information System (GIS), 129
- geoparsing, 131, 134
- geovisualization, 145
- Glyph visualization, 23, 27

- head orientation, 58, 64
- head-mounted display, 57, 64
- heatmap, 224, 240
- human control theory, 89

- immersive video, 57
- inadvertent detractors, 51
- information visualization, vi
- intelligence application, 140
- inter-observer consistency (IOC), 247, 248
- interaction data, 113

- Matérn 5/2 function, 85
- medical checklists, 50
- memory, 235, 237, 244, 246
- model visualization dashboard , 99–101
- modified Multi-Attribute Task Battery (mMAT-B), 95–96
- monocular eye tracker, 171
- movement dynamics, 73, 74, 76, 87

- named entity extraction, 143
- Needleman-Wunsch algorithm, 159

- perspective mapping, 170
- pictograms, 246

- radial basis function, 84
- recurrence plots, 14, 41
- recurrence quantification analysis (RQA), 44
- region of interest (ROI), 152, 245
 - 3D, 187
- scanpath, 58, 61, 119, 153, 237, 239, 245
- scarf plot, 13
- scientific visualization, vi
- SFB/Transregio 161, ix
- Simplified Interfacing for Modeling
 - Cognition–JavaScript (SIMCog-JS), 95
- sparklines, 114
- spatial density, 246

- think-aloud protocol, 7, 115
- time plot, 10, 138
- timeline, 12, 120
- Tobii eye tracker, 133
- tomography, 189
- toponyms, 129
- transcript, 113
- transition, 14, 115

- understanding attention patterns, 23
- understanding emotion regulation strategies, 23
- unsupervised learning, 156, 158, 164

- VERP Explorer, 41
- view cones, 174
- view similarity visualization, 58, 62
- visual analytics, vi, 3
- visual attention, 98
- visual search, 44
- visual-motor, 73, 74, 77
- visual-motor coordination, 74, 89
- visualization of abstracted eye-tracking data, 23
- visualization pipeline, 5
- visualization taxonomy, 237
- volume saliency, 187

- Web mapping, 135
- word-sized visualization, 113
- Workshop on Eye Tracking and Visualization (ETVIS), vi