## Index

A	I
access of web pages. See web page access	information architecture, 2
algorithms. See computational approaches	research implications, 111–112
anchor points. See entries for landmarks	Information Science, 5
artificial intelligence, 14–16	
•	K
В	knowledge, navigational, 6, 26
bookmarks, web, 22	knowledge, navigational, 0, 20
usage, 48–49, 74–75, 98–99	L
buildings as landmarks, 24–26, 118	
ourumgs as fairdinaries, 21 20, 110	landmarks, physical, 6, 37
C	characteristics, 24–26, 34
	as navigational aids, 28–30, 110
Chi, E. H. , 2, 113–114	types of, 35–36
cognitive landmarks. See semantic landmark characteristics	landmarks, semantic web. See semantic landmark
cognitive maps, 1, 9, 26. See also spatial cognition	characteristics
landmarks and, 28–29, 110	landmarks, structural web. <i>See</i> structural landmark
computational approaches, 32–33, 43, 47, 118–119	characteristics landmarks, visual web. See visual landmark characteristic
content, text, in web pages. <i>See</i> semantic landmark characteristics	landmarks, web, 30–33, 32, 110–111. See also web page
Characteristics	elements
D	types of, 30
D	objective value
data. See statistical data	hypotheses, 40–41
design, urban, 8–9	computational approaches, 42–44
disorientation, hypertext, 20–21	characteristics, 44–46
T.	experiments, 48–50, 55–59, 91
E	analysis, 94–109
environments, types of, 7	conclusions, 110–111
	subjective value
F	hypotheses, 41
favorite sites. See bookmarks, web	evaluation, 46–53
· · · · · · · · · · · · · · · · · · ·	experiments, 80–91
G	analysis, 101–109
	conclusions, 111
Golledge, R. G., 1, 26, 28 graph theory, 12–13	statistical analysis, 56–58
graphical overview maps, 22	weighted analysis, 105–107, 118–119
graphics, web. See visual landmark characteristics	learning, spatial knowledge, 26–27
guided tours, web, 22, 112	links, 18–19, 42–44. See also structural landmark
Saided todis, web, 22, 112	characteristics
H	statistical data, 104
	Lynch, K., 8–9, 24–26
hierarchies, 22	3.4
Hirtle, S. C., 2, 35–37, 108, 119	M
home pages, 30–31, 36, 112	map-making, relational, 14-16
as landmarks, 30–31	map recall See recall in navigation
hyperlinks. See links	mental maps. See cognitve maps
hypertext, 18 node connectivity, 32–33, 42, 113	methodology, 39-40, 48, 52, 112-116
orientation, 20–21	algorithms, 43, 47, 118–119
hypertext navigation. See navigation, web	standard deviation, 114–115
nypotent navigation. See navigation, weo	Mukherjea, S., 32–33, 42

## Index

N	recall in navigation, 39, 110
navigation, physical, 5, 7, 27–28	of web pages. See web page recall
animal, 11	reference points. See entries for landmarks
landmarks and, 28–30, 119–120	relational map-making, 14–16
learning, 26–27	research implications, 111–112
neurological aspects, 10–13	research method, 39–40, 48, 52
recall, 39, 110	robot navigation, 14–16
robot, 14–16	_
urban, 8–9, 29	S
virtual reality, 17	Sadalla, E. K., 3, 25, 27, 39
navigation, web, 2-3, 23-30, 110-111. See also web page	search engines, 22, 119–120
access	semantic landmark characteristics, 36
aids, 22–23, 112	correlation with subjective landmarks, 103, 105-107
evaluation, 48–50, 75–80	evaluation, 45–47, 86–88
paths, 48–49, 60–73, 75–80	recommendations, 113-114
navigational aids	Sorrows, M. E. and Hirtle, S. C., 2, 35–37, 108, 119
landmarks as, 28–30	space, networked, 7, 13
web, 22–23	space, open-terrain, 7, 16
navigational features, 5	spatial cognition, 2. See also cognitive maps
networked space navigation. See space, networked	spatial representation of landmarks, 24–26
neural networks, 12–13	starting points, 48–49, 57, 68. See also paths, web
neuroscience, 10–13	navigation
nodes, 9, 13–14, 23, 30–33	statistical data, 75–77, 100
connectivity, 32–33, 42, 113	statistical data
• / /	navigation paths, 60-63, 65, 68, 71, 72, 85
0	objective landmark values, 56–58, 84, 102–107
	subjective landmark values, 89, 90, 102–107
objective landmark values. See landmarks, web, objective	URL knowledge, 74, 86
value	structural landmark characteristics, 36. See also links
open-terrain navigation. See space, open-terrain	evaluation, 42, 44, 46–47
organizing concepts for landmarks, 28	correlation with subjective landmarks, 103, 105–107
orientation, hypertext, 20–21	recommendations, 113
D.	URL length, 34, 42
P	subjective landmark values. See landmarks, web, subjective
Passini, R., 9, 29	value
page, web, See entries for web page	surveys of users. See questionnaires
paths, web navigation, 48-49, 60-73, 75-80. See also	,
starting points	T
recall of, 94	
physical landmarks. See landmarks, physical	text content in web pages. <i>See</i> semantic landmark characteristics
Pirolli, P., 113–114	
Pitkow, J., 113–114	tours, web guided, 22
points of reference. See entries for landmarks	TT
	U
Q	urban design, 8–9
questionnaires, 46–47, 48–53	URL knowledge, 49, 74–76, 85–86, 98–99
participants, 59–60, 81	URL length, 34, 42
questions, 51, 77–79, 81–88	usability, 113
4.00.000, 01, 11, 12, 01, 00	user interface navigational features, 5
R	
	V
Raubal, M. and Winter, S., 118–119	virtual reality, 17
	visual cues, 2

## Index

```
visual landmark characteristics, 35
  evaluation, 44-47, 83-84
  correlation with subjective landmarks, 104, 105-107
  recommendations, 114-117
W
wayfinding. See navigation, physical
web site design, 2, 44–46, 103, 120
  research implications, 111–112
web graphics. See visual landmark characteristics
web navigation. See navigation, web
web page access, 80. See also navigation, web
  hypothesis, 40
  measurability, 42-44
  statistical data, 84-85, 98-99
  conclusions, 109
web page elements, 20, 42-46, 105, 112, 114-116. See also
        landmarks, web
web page landmarks. See landmarks, web
web page recall, 80
  hypothesis, 40, 53, 95
  statistical data, 82-83, 96-97
  evaluation, 93-97
  conclusions, 109, 112
Winter, S., 118-119
World Wide Web, 18, 20, 110-111
```