

AUTHOR INDEX

A

Aho, A. V., 112, 281
 Albert, L. H., 50, 201
 Albert, R., 359
 Appel, K., 112
 Arabie, P., 27
 Atkin, R., 249

B

Baker, D. R., 265, 267
 Bales, R. F., 56, 57, 62, 312, 313, 314, 316
 Barabasi, A.-L., 359
 Batagelj, V., 24, 27, 29, 59, 131, 142, 143, 151,
 152, 155, 160, 161, 163, 173, 177, 178, 179,
 188, 220, 235, 246, 283, 300, 340, 349, 360
 Berkowitz, S. D., 1, 25
 Bernard, H., 52
 Bolland, J. M., 130
 Bonabeau, E., 359
 Bonacich, P., 130, 249
 Boorman, S. A., 27, 34
 Borgatti, S. P., 19, 24, 25, 30, 169, 172, 174,
 175, 177, 202, 248, 249, 250, 265, 267,
 269, 290, 358
 Boyd, J., 92
 Breiger, R. L., 27, 34, 35, 36, 42, 172, 202, 215,
 249, 318
 Bren, M., 142, 143
 Broder, R., 359
 Brown, L. R., 359
 Brucker, P., 134, 360
 Burt, R. S., 27, 28, 172, 179, 181, 202

C

Carley, K., 1, 2
 Carré, B., 281
 Carrington, P. J., 25
 Cartwright, D., 44, 132, 297, 298, 299
 Chankong, V., 161, 163

Chartrand, G., 112, 298, 299, 301, 302
 Cleveland, W. S., 321
 Clifford, H., 138
 Cohen, I., 1, 2
 Conte, S., 131
 Czekanowski, J., 143

D

Davis, A., 9, 247, 257
 Davis, J. A., 19, 20, 247, 298, 299, 326, 327
 Day, W. H. E., 160
 de Boor, C., 131
 de Nooy, W., 27, 360
 Dickson, W. J., 4, 38, 119
 Diday, E., 149
 Doreian, P., 1, 4, 5, 24, 29, 37, 45, 46, 50, 56,
 128, 132, 173, 196, 198, 201, 235, 245,
 246, 248, 249, 250, 251, 253, 255, 256,
 265, 273, 282, 298, 299, 303, 304, 317,
 318, 320, 321, 324, 325, 349
 Drabek, T. E., 54, 55, 203, 205, 206, 208
 Dunbar, P., 60
 Dunbar, R., 60

E

Erdős, P., 112
 Everett, M. G., 19, 24, 169, 170, 171, 172, 174,
 175, 183, 184, 189, 248, 249, 250, 265,
 267, 269, 290, 305, 358
 Everitt, B. S., 138, 148

F

Faust, K., 9, 36, 37, 128, 171, 178, 181, 191,
 192, 235, 247, 248, 249
 Ferligoj, A., 29, 52, 151, 152, 153, 155, 156,
 160, 161, 163, 173, 235, 246, 349
 Fiksel, J., 180
 Fine, G. A., 6, 47, 48, 50, 196, 198, 201
 Fletcher, J. G., 131, 281, 283, 284

376

Author index

Florek, K., 145
 Forsyth, D. R., 4, 297
 Foulds, L. R., 358
 Freeman, L. C., 128, 129, 130, 179, 248, 249,
 257, 260, 261, 263, 282
 French, S., 163
 Fujimoto, K., 248, 251, 253, 255, 256

G

Galaskiewicz, J., 247
 Gleditsch, N. P., 128
 Gordon, A. D., 138, 151
 Gould, R. V., 130, 282
 Gower, J., 138, 145
 Greenhouse, L., 253

H

Haimes, Y., 161, 163
 Haken, W., 112
 Hanani, U., 160
 Hansen, P., 137
 Harary, F., 44, 132, 282, 297, 298, 299, 303,
 332
 Hartigan, J., 149
 Heider, F., 29, 44, 295, 296, 297, 298, 303
 Hlebec, V., 52, 337
 Hoivik, T., 128
 Homans, G. C., 4, 19, 31, 37, 38, 40, 41, 42, 311
 Homenjuk, V., 161
 Hopcroft, J. E., 112
 Hubálek, Z., 138, 142
 Hummel, H., 178
 Hummon, N. P., 1, 2, 128, 273, 325

J

Jaccard, P., 143
 Jaumard, B., 137
 Jennings, H. H., 333

K

Karp, 112
 Killworth, P., 52
 King, R. B., 358
 Kolchanov, N. A., 358
 Krackhardt, D., 321, 324
 Krivošić, S., 56
 Kulczyński, S., 143

L

Lance, G., 142
 Lapajne, Z., 156, 157
 Lebart, L., 151
 Lefkovich, L., 151
 Legendre, P., 138, 151
 Leinhardt, S., 19, 20, 326, 327
 Lorr, M., 138
 Lorrain, F., 2, 24, 171
 Lovász, L., 112
 Luczkovich, J. J., 358

M

MacCrimmon, K., 161
 MacQueen, J., 149
 Mahalanobis, P., 142
 Mandel, M., 174
 Marsden, P. V., 52
 McQuitty, L., 145
 Michener, C., 143, 145
 Minor, M. J., 181
 Mojena, R., 148
 Moon, J., 105
 Moreno, J. L., 7
 Moser, L., 105
 Mrvar, A., 27, 37, 46, 56, 245, 303, 304, 318,
 320, 324, 360
 Murtagh, F., 151

N

Nakao, K., 45
 Newcomb, T. M., 30, 44, 62, 297, 298, 303, 317,
 318, 321, 322, 323, 324
 NF, T. M., 321
 Nogin, V., 161
 Nordlie, P., 44, 46
 Norman, R. Z., 132
 Nowicki, K., 360

O

Oellerman, O., 112
 Olsen, M. E., 5

P

Padgett, J. F., 9
 Panning, W. H., 25
 Pattison, P. E., 37, 92, 249
 Perruchet, C., 151
 Podinovskij, V., 161
 Press, W., 131

R

Rao, T., 143
 Rapoport, A., 296
 Read, K. E., 307, 308, 309, 310
 Reitz, K. P., 24, 173
 Riley, J. E., 298, 299
 Roberts, F. S., 298, 299, 302, 303, 307,
 360
 Roberts, J., 249
 Roethlisberger, F. J., 4, 38, 119
 Rogers, D., 143
 Rogers, E. M., 1
 Romney, A. K., 45
 Russell, F., 143

S

Sabidussi, G., 129
 Sailer, L. D., 52, 173
 Sampson, S. F., 30, 31, 32, 33, 34, 35, 36, 37, 62,
 245, 318, 319, 320

Author index

377

Sanlaville, E., 137
 Schwartz, J. E., 2, 56, 169, 310, 311, 312, 315
 Seidman, S., 249
 Sheng, L., 360
 Skvoretz, J., 249
 SM, S. F., 62, 318, 320
 Sneath, P., 133, 138, 143, 145
 Snijders, T. A. B., 360
 Sodeur, W., 178
 Sokal, R., 133, 138, 143, 145
 Sprinzen, M., 2, 56, 169, 310, 311, 312, 315
 Stephenson, K., 130
 Stephenson, W., 138
 Stokman, F., 4
 Strogatz, S. H., 359
 Sudman, S., 52

T

Tanimoto, T., 143
 Taylor, H. F., 296, 297

U

Ullman, J. D., 112

W

Wallerstein, I., 233
 Ward, J. H., 135, 145, 146, 147, 148, 149, 150, 165, 177, 183, 189
 Wasserman, S., 9, 128, 178, 191, 192, 235, 247, 248, 249
 Watkins, J. J., 358
 Watts, D. J., 359
 Wellman, B., 1
 White, D. R., 24, 173, 249
 White, H. C., 2, 24, 34, 35, 36, 37, 42, 43, 171, 235, 320
 Whitney, H., 109, 110
 Williams, W., 142
 Wilson, R. J., 358
 Winship, C., 174
 Woodard, K. L., 132

Y

Young, M. W., 306

Z

Zelen, M., 130
 Zeleny, M., 161
 Zimmermann, U., 281

SUBJECT INDEX

A

absorption, 66, 273
 accuracy, 52
 actor, 3, 5
 acyclic requirement, 326
 addition, 279
 idempotent, 280
 algebra, 273
 Boolean, 293
 algorithm, 137
 agglomerative, 183
 agglomerative hierarchical, 144, 154, 163
 clustering, 25, 143, 176, 177, 178
 direct, 160
 dynamic clusters, 149
 exact, 134
 Fletcher's, 281
 genetic, 249
 hierarchical, 178
 heuristic, 134
 K-MEANS, 149
 leader, 149, 178
 local optimization, 226
 partitioning, 233
 relocation, 150, 154, 178, 188, 245, 304
 sequential coloring, 112
 analysis
 cluster, 134
 confirmatory, 264
 correspondence, 249
 exploratory, 263
 positional, 2
 role, 192
 approach
 direct, 25, 185, 196, 210, 218, 232
 direct blockmodeling, 185
 indirect, 25, 177, 184

indirect blockmodeling, 177
 optimization, 168, 186, 245
 arc, 8, 94
 deletion, 331
 negative, 298
 positive, 298
 argument, 84
 associativity, 66
 attribute, 233
 automorphism, 100, 174, 180

B

balance
 structural, 46, 296
 time, 317
 block, 3, 12, 215, 301
 column-dominant, 213, 214, 218, 219, 221, 222, 233
 column-functional, 213, 214, 225, 233
 column-regular, 15, 211, 214, 218, 222, 225, 233
 complete, 12, 25, 184, 211, 221, 225, 347
 density, 225
 diagonal, 12, 173, 211, 225
 empirical, 26, 184, 210, 223
 error, 226
 generalized, 223
 ideal, 26, 173, 184, 186, 210, 213, 214, 224
 inconsistency, 226
 nondiagonal, 173, 225
 null, 13, 25, 104, 174, 184, 187, 211, 214, 218, 221, 225, 231, 347
 off-diagonal, 12, 249
 one-covered, 174, 211, 347
 permitted, 184, 210, 225, 234
 prespecified, 234, 263
 regular, 15, 25, 174, 184, 187, 211, 221, 231, 347

Subject index

379

- row-dominant, 213, 214, 218, 219, 221, 222,
 231, 233
 row-functional, 213, 214, 225, 233
 row-regular, 15, 211, 214, 218, 222, 225, 231,
 233
 signed, 348
 structural, 173
 symmetric, 20, 326, 348
 symmetric diagonal, 15
 type, 12, 25, 210, 213, 214, 218, 221, 222,
 233, 234, 348
 types, 27, 168
 blockmodel, 3, 17, 25, 90, 169, 211, 218,
 221
 k-position, 235
 acyclic, 326
 center-periphery, 22, 233
 centralized, 236
 cohesive subgroups, 236, 237
 confirmatory, 245
 constrained, 210, 235
 constrained prespecified, 235
 conventional, 243, 245
 core-periphery, 60, 233, 235, 236,
 239
 empirical, 185
 exploratory, 245
 fitted, 23, 24, 234
 fitting, 235, 245
 fixed, 234
 four-position, 23, 240
 generalized, 243, 245
 hierarchical, 235, 236, 337
 ideal, 185, 243
 partial, 245
 prespecified, 23, 210, 233, 234, 244, 338,
 351, 353
 quality, 245
 ranked clusters, 20, 326, 332, 355
 symmetric-acyclic, 326
 transitivity, 236
 two-position, 23, 239
 type, 211, 235
 blockmodeling, 2, 12, 34
 confirmatory, 27, 234
 constrained, 235
 constrained prespecified, 235
 conventional, 3, 24, 59, 168, 184, 226
 deductive, 26, 234, 235
 exploratory, 26, 234
 generalized, 3, 25, 168, 220, 227, 233,
 249, 250, 352
 inductive, 26, 234, 235
 prespecified, 26
 two-mode, 250
 two-mode generalized, 250
 bound, 286
 greatest lower, 286
 least upper, 287
 lower, 286
 upper, 287
C
 cardinality, 68
 Cartesian product, 70
 centrality
 betweenness, 179, 282
 closeness, 179
 degree, 179
 chain, 108, 124
 circuit, 107
 classification, 134
 clique, 19, 40, 105, 152, 211
 ranked, 19
 closure, 114
 geodetic, 110, 283
 preorder, 125
 strict, 280
 strict geodetic, 284
 symmetric, 114
 symmetric, transitive, and reflexive,
 282
 transitive, 114, 329
 transitive and reflexive, 115, 180
 cluster, 11, 12, 134, 168, 211, 235
 constrained, 23, 240
 spherical, 149
 strongly connected, 152
 symmetric, 330
 weakly connected, 152
 cluster analysis, 184
 clusterable, 299
 clustering, 69, 134, 137, 168, 221, 235
 consensus, 160
 constrained, 150, 235
 feasible, 134, 151
 fuzzy, 134
 hierarchical, 69
 indirect, 177
 multicriteria, 160
 overlapping clusters, 134
 Pareto efficient, 160
 ranked, 20
 symmetric-acyclic, 329, 330
 coefficient
 correlation, 141
 determinacy, 78, 79
 structure enforcement, 156
 coloring, 249
 commutativity, 66, 90
 comparing relations, 76
 compatible, 181, 222
 dissimilarity, 178
 complement, 66
 complexity
 computational, 134
 NP-hard, 134, 360
 composition, 87

computer science, 134
 concatenation, 108
 CONCOR, 27, 35, 36, 42, 50, 178, 197, 202,
 203, 207, 315
 connectedness, 108, 152
 connectivity, 249
 strong, 108, 332
 unilateral, 108
 weak, 108
 constraint, 22, 235, 242, 245
 divisible, 155
 optimizational, 154
 relational, 151
 context, 70
 context change, 74
 correlation, 141
 covering, 69
 criterion function, 26, 137, 177, 184, 185, 226,
 234, 245, 304, 348, 350
 clustering, 135
 sensitive, 186, 187, 251
 Ward, 135
 cube, 104
 cycle, 108, 279, 298
 directed, 109
 Hamiltonian, 117
 shortest, 283

D

data
 attribute, 139
 baboon grooming, 20, 60, 238
 Bales-type, 56, 312
 Bank Wiring Room, 37, 75, 78, 79, 146,
 310
 binary, 142
 boys and girls, 237, 333, 339
 cross-sectional, 61
 Deep South, 9, 247, 257
 educational career plans, 156
 Florentine families, 7, 71, 94, 139, 145
 Gahuku–Gama, 307
 Journal-to-journal citation, 265
 Kaluana, 306
 Little League baseball team, 11, 47, 94, 95,
 196, 216
 longitudinal, 61
 Newcomb, 44, 320
 one-mode, 72
 Parent–child, 16
 political actor, 50, 201
 quality, 52
 Ragusan families, 56, 340
 Sampson monastery, 31, 318
 Search and rescue, 3, 54, 203
 Sharpstone Auto, 47, 198
 standardized, 141
 Student Government, 52, 78, 228, 337

Supreme Court voting, 251
 Transatlantic Industries, 47, 196, 216
 two-mode, 9, 71, 247
 decomposition
 symmetric–acyclic, 328, 355
 degree, 102, 179
 maximum, 103
 minimum, 103
 dendrogram, 145, 183, 189
 density, 215
 determinacy
 mutual, 79
 deviation, 186, 224, 226
 digraph, 11
 difference, 66
 symmetric, 67
 dissimilarity, 137, 138, 178, 181
 compatible, 181
 corrected, 181
 corrected Euclidean-like, 181
 corrected Manhattan-like, 181
 properties, 78
 distance, 138, 179
 Chebyshev, 139
 Euclidean, 25, 27, 37, 135, 138, 159, 179,
 181
 geodesic, 110
 Hamming, 77
 Manhattan, 139, 181
 Minkowsky, 139
 truncated Euclidean, 181
 truncated Manhattan, 181
 distributivity, 66, 273
 domain, 72

E

edge, 8, 94
 effect
 chaining, 148
 eigenvalue, 249
 eigenvector, 249
 element
 absorption, 90, 91, 279
 idempotent, 90
 identity, 90
 inverse, 90, 279
 irreducible, 293
 maximal, 122
 minimal, 122
 neutral, 90, 279
 nonredundant, 293
 regular, 90
 embedding, 88
 equivalence, 24, 210
 \mathcal{T} , 222
 automorphic, 174
 compatible, 222
 generalized, 354

Subject index

381

- regular, 24, 168, 170, 173, 184, 187, 189, 211,
 216, 231, 347, 354, 358
 structural, 2, 24, 121, 168, 171, 172, 173, 177,
 178, 184, 186, 189, 196, 198, 202, 204,
 211, 216, 231, 354
 extension, 86
- F**
 factor analysis
 confirmatory, 178
 factorization, 125
 family, 68
 flow
 maximum, 273
 function, 84
 bijective, 85
 characteristic, 86
 constant, 86
 extension, 86
 identity, 86
 injective, 85
 level, 123
 partial, 84
 penalty, 353
 restriction, 85
 sign, 298
 surjective, 85
 value, 280
- G**
 geodesic, 110, 273, 282
 graph, 7, 84, 94
 acyclic directed, 326
 Berge, 97
 bipartite, 105, 248, 250
 bipartite directed, 248
 center, 110
 chromatic number, 111
 coloring, 111, 301
 complete, 104
 complete k -partite, 176
 complete bipartite, 105
 cubic, 104
 diameter, 110
 directed, 11, 94
 directed complete, 104
 finite, 96
 Hasse, 125, 330
 image, 19, 192, 211, 219, 221
 invariant, 249
 isomorphic, 174
 k -balance, 299
 k -balanced, 304
 k -connected, 110
 k -line-connected, 110
 k -partite, 105, 176
 nondirected, 11
 null, 104
- radius, 110
 reduced, 191, 221
 regular, 104
 simple, 96
 smallest, 90
 strongly connected, 108
 undirected, 11, 94
 unsigned, 298
 valued, 272, 274, 360
 weakly connected, 108
 greediness, 148
 group, 92
 Abelian, 92
 commutative, 279
 groupoid, 89
 Abelian, 90
 associative, 90
 idempotent, 90
- H**
 hierarchy, 2, 17, 134, 135, 233
 complete, 135
 homomorphism, 88, 99, 291
 strong, 99
 weak, 99
 hypergraph, 249
- I**
 ideal structures, 328
 idempotency, 66
 image, 19, 84, 90, 220
 image matrix, 169
 inconsistency, 23, 26, 186, 215, 230, 231, 244,
 304
 block, 186
 total, 186, 226
 index
 betweenness, 59
 centrality, 59, 282
 closeness, 59
 degree, 59
 influence, 59
 support, 59
 inequality
 triangle, 78, 138
 infix, 89
 INSNA, 1, 161
 intersection, 65, 66
 interval
 constraining, 154
 invertible, 90
 isomorphism, 249
- L**
 lattice, 175, 285, 289
 bounded, 291
 complemented, 291
 complete, 289

382

Subject index

lattice (*cont.*)
 Galois, 249
 modular, 292

law
 De Morgan, 67, 293
 power, 359

length, 107
 line, 7, 95
 directed, 8, 94
 undirected, 8, 94

loop, 95

M

mapping, 84, 138, 220, 221, 234
 bijective, 86
 one-to-one, 174
 surjective, 221
 matrix, 8, 11
 Boolean, 73
 (dis)similarity, 138
 adjacency, 195
 balance-closure, 300
 binary, 72
 Boolean, 73
 closure, 281
 connectedness, 282
 dissimilarity, 178
 geodetics count, 283
 image, 14, 23, 191, 218, 230, 235, 338
 partition-closure, 300
 penalty, 332
 rectangular, 248
 relational, 72
 semiring, 281
 shortest paths length, 283
 transposition, 81
 value, 281
 variance-covariance, 142

measure

(dis)similarity, 135, 137, 176
 balace, 303
 centrality, 179
 deletion, 303
 deviation, 225
 dissimilarity, 27, 77, 178
 fit, 26, 351
 imbalance, 303
 inconsistency, 26
 matching similarity, 142
 similarity, 141, 142

membership social relations, 9

method

average, 145
 complete linkage, 145
 direct, 168
 Gower, 145
 hierarchical, 144, 147, 154
 indirect, 168

maximum, 145
 McQuitty, 145
 minimum, 145
 optimization, 243
 single linkage, 145
 Ward, 145, 183
 methods
 optimization, 210
 model, 14
 p^* , 249
 center-periphery, 14
 monoid, 92, 272
 Abelian, 92, 279
 multidimensional scaling, 37
 multiple blockmodels, 243,
 355
 multiplication, 279

N

neighbor, 103, 179, 180
 immediate, 81
 network, 3, 6
 A Simple Blockmodel, 13
 balanced signed, 298
 binary, 11
 bipartite, 250
 gene, 358
 isomorphic, 174
 measurement, 52
 one-mode, 6
 signed, 273, 297, 298
 social, 3
 two-mode, 248
 valued, 11
 Web, 359
 networks
 complex, 359
 scale-free, 359

O

operation, 65, 80
 binary, 89, 273
 closure, 280
 internal, 89
 optimization
 local, 188, 223, 251
 multicriteria, 161
 order
 strict, 124
 ordering
 partial, 215

P

pair, ordered, 70
 PAJEK, 27, 360
 partition, 35, 69, 134, 168,
 221
 (k_1, k_2), 250

Subject index

383

- balance, 355
 - multiple, 231
 - refinement, 124
 - regular, 176, 189
- partitionable, 299
 - k*-balance, 299
- partitioning
 - balance, 355
- path, 108, 271, 298
 - directed, 109
 - Hamiltonian, 109, 117
 - longest, 273
 - shortest, 180, 273
 - strongest, 278
 - value of, 276
- penalty, 260, 350
- permutation, 86
- plus-sets, 299, 304, 355
- position, 2, 14, 19, 168, 211, 219, 220, 230, 233, 234, 235
- power, 83, 91
- predecessor
 - immediate, 81
- predicate, 211, 213, 214, 221
 - binary, 215
- prespecification, 349
- principle
 - duality, 291
- problem
 - balance, 299
 - blockmodeling, 14, 188
 - clustering, 133, 185
 - constrained clustering, 151
 - four color, 112
 - multicriteria clustering, 160
 - optimization, 134, 223, 251
 - partitionability, 300
- procedure
 - blockmodeling, 26
 - clustering, 188
 - divisive, 178
 - fitting, 26
 - hierarchical, 144
 - local optimization, 197, 226, 245, 304
 - optimization, 350
 - partitioning, 304
 - relocation, 189, 197
- product, 81, 87
 - Cartesian, 84
- property
 - complete structural, 179
 - nonsensitive, 180
 - sensitive, 180
 - structural, 178, 180
- pyramid, 134
- Q**
 - Q-Analysis, 249
- quadruple
 - ordered, 221
- questionnaire, 52
- R**
 - range, 72
 - ranked clusters, 20
 - reachability, 249, 273
 - recall, 52
 - recognition, 52
 - reduced graph, 169
 - REGE, 50
 - regionalization, 151
 - relation, 3, 5, 70, 146
 - acyclic, 122
 - adjacency, 96
 - antisymmetric, 113
 - asymmetric, 113
 - binary, 71
 - comparable, 113
 - converse, 80
 - equivalence, 185
 - factor, 125
 - Hasse, 125, 329
 - identity, 71
 - intransitive, 113
 - irreflexive, 113
 - k*-plex, 105
 - multiple, 61, 356
 - nonsymmetric, 11, 61, 151
 - reflexive, 113
 - signed, 4, 62
 - single, 61
 - strictly acyclic, 122
 - strictly comparable, 114
 - symmetric, 11, 61, 113, 151
 - transitive, 113
 - two-mode, 9
 - unit, 86
- restriction, 85
- ring, 279
- role, 2, 19, 233
- rule
 - averaging, 251
 - decision, 163
 - Hurwicz, 164
 - Laplace, 164
 - optimistic, 164
 - pessimistic, 164
 - Wald, 164
- S**
 - semicycle, 109, 298
 - balanced, 298
 - semiforest, 109
 - semigroup, 90, 298
 - Abelian, 90
 - commutative, 279

semilattice, 90, 285, 287, 330
 complete, 289
 semipaths, 109
 semiring, 273, 279, 299
 balance, 299
 combinatorial, 279
 complete, 280
 geodetic, 282
 idempotent closed, 299
 partition, 300
 path values, 279
 relational, 279, 280
 shortest paths, 279, 280
 semitree, 109
 undirected, 109
 semiwalk, 108, 278
 set, 65
 bounded, 287
 empty, 65, 71
 index, 69
 power, 67
 set operations, 74
 singleton, 16, 17
 skeleton, 99
 directed, 99
 undirected, 99
 sociogram, 7
 sociomatrix, 8, 72
 space
 criterion, 167
 metric, 78
 two-dimensional, 140
 standardization, 137, 141
 star, 101, 105
 strategy
 leader, 155
 strict, 155
 tolerant, 155
 structural balance theory, 296
 STRUCTURE, 27, 50, 178, 197, 202
 structure
 algebraic, 89
 subcluster, 214
 subgraph, 98
 complete, 218
 geodesic, 110
 spanning, 98
 strongly connected, 152
 weakly connected, 152
 sublattice, 291
 successor, 81
 immediate, 81
 survey, 52
 symmetry, 78
 symmetry requirement, 326

T

table
 Cayley, 89, 272, 276, 299, 300
 contingency, 142
 density, 191
 taxonomy, 134
 theorem, 110
 Brooks, 112
 König, 112
 Menger, 110
 theory
 balance, 298
 category, 27
 set, 65
 threshold, 215
 tie, 7, 8
 asymmetric, 20, 326
 binary, 61
 valued, 11, 61
 tournament, 117
 trail, 107, 152
 transposition, 248
 tree, 109
 clustering, 145
 triad, 106, 178, 179
 triadic spectrum, 178, 179
 triple
 ordered, 94
 two-clustering, 250

U

UCINET, 30, 36, 44, 50, 178, 202
 union, 65, 66
 unit, 5, 134
 universe, 71

V

valency, 103
 value, 84
 variable
 constraining, 153
 vertex, 7, 94
 central, 110
 eccentricity, 110
 initial, 95, 107
 isolate, 95
 terminal, 95, 107

W

walk, 107, 271, 298
 closed, 107
 elementary, 107
 Eulerian, 108
 Hamiltonian, 108
 null, 108, 280
 simple, 107
 weight, 260
 wheel, 109