

# **Index**

- accrediation performance, 261  
AHP (analytic hierarchy process), 169  
alternative-fuel bus, 169  
artificial neural network, 125, 215  
aspiration level., 25  
assessment, 89  
automatic clustering weighting fuzzy C-means algorithm, 149  
  
bacterial memetic algorithm, 111  
Bally, 97, 161  
bio-micromachine, 131  
black-out, 199  
Boltzmann machine, 119  
Boolean conjunction, 189  
branch and bound, 243  
brand innovation, 97  
  
carbon emissions management, 3  
case study, 97, 215  
centoid method, 276  
central point of interval , 276  
changeable parameters (changeable space), 177  
chromosome image segmentation., 61  
clustering analysis, 149  
Collusion, 47  
colored reflector, 253  
communication strategy, 137  
competitieve market, 97  
confidence interval, 69  
confidence interval estimation, 143  
conjectural variations equilibrium, 277, 287  
consumer behavior classification problem, 221  
convergence proof, 119  
Cournot., 47  
CVE, 277, 287  
  
DANP (DEMATEL-based ANP), 25  
defuzzification, 276  
DEMATEL (decision making trial and evaluation laboratory), 25  
desired point (aspiration level)., 177  
DLBP, 103  
DNA-based cryptographical coding system, 205  
duopoly, 277, 287  
  
electrically controlled two-dimentional cellmigration, 131  
emotional value, 137  
evaluation criteria, 227  
EVs (electric vehicles), 169  
expected value, 69  
exterior equilibrium, 277, 287  
  
film-based CIELAB-coded optical logic gate model, 253  
financial statement, 125  
forwarder, 47  
fuzzy assessment, 143  
fuzzy clustering, 61  
fuzzy fitness function, 111  
fuzzy integral, 25, 169  
fuzzy logic system, 7  
fuzzy number, 276  
fuzzy preference relation, 89  
fuzzy random variable, 69  
fuzzy regression model, 69  
fuzzy similarity method, 221  
  
Gabor filter., 103  
game, 57  
game theory, 47  
genetic algorithm, 61

- graphic rules, 205
- gray relational analysis, 89
- highlighting scanned color information, 253
- Hopfield network, 119
- hybrid approach, 125
- hybrid fuzzy MCDM, 261
- image processing, 149
- image segmentation, 149
- innovative project management, 83
- INRM (influential network relationship map), 25
- inspection error, 235
- interval type-2 fuzzy c-means, 61
- inventory, 276
- Japan, 97, 161
- KNN, 103
- knowledge retrieval, 155
- Korea, 215
- linguistic expression, 69
- legal staff, 227
- low carbon growth partnership, 57
- luxury, 137
- luxury brand construction, 97
- luxury fashion brand image, 161
- MADM (multiple attribute decision making), 25
- MADM (multiple attribute decision making), 169
- market price, 277, 287
- MCDM (multiple criteria decision making), 25
- meta controlled Boltzmann machine, 119
- MFISH segmentation, 61
- modified economic manufacturing, 235
- MODM (multiple objective decision making), 25
- molecular biologically editable design, 205
- molecular similarity methods, 221
- multi-objective programming (MOP), 177
- negation, 253
- oligopoly, 277, 287
- optimal railway time-table, 111
- optimization problems, 177
- outage cost, 243
- paramecium bursaria, 131
- partially mixed duopoly, 277, 287
- plastic microspheres, 131
- power systems, 15
- primitive optical computing model, 189
- probabilistic reliability, 15
- probabilistic reliability criteria, 243
- probabilistic reliability evaluation, 199
- production cost evaluations, 15
- project, 89
- project management, 155
- project management methodology, 83
- quality loss, 235
- quantity model, 235
- railway grade separation construction, 89
- recruiting, 227
- regression model, 75
- renewable energy generators, 15
- reporting, 3
- risk rate, 143
- RLE, 205
- role of store design, 161
- rough sets, 125
- run-length encoding, 205
- scale-free network, 17
- self-organizing map, 83
- shippers, 47
- shortage, 235
- software development, 143
- solar radiation estimation, 215
- square matrix-arrayed color codes, 189
- stackelberg, 47
- steganographical on-image numeric data, 205
- store design, 161
- structural learning, 119
- super-aging society, 17
- SVM, 103
- swarm intelligence, 5
- Taiwanese enterprise, 227
- texture classification, 103
- time aggregation effect, 75
- TIN (triangulated irregular network), 7
- Tod, 97, 161
- transmission system, 199
- transmission system expansion planning, 243
- TRELSS., 199
- triangular fuzzy number, 276
- triangulated irregular network, 7
- two-echelon model, 47
- type-2 fuzzy set, 7
- valuation, 3
- variance, 69