

Index

- A
 - (fuzzy)
 - almost regular, 20
- B
 - (fuzzy)
 - base, 15
 - basic open set, 15
- C
 - (fuzzy)
 - closed function, 18
 - closed set, 14, 15
 - closure clA , 15
 - cluster point, 17
 - compact open topology Δ_{co} , 31
 - compact set, 20
 - compact space, 21
 - complement, 12
 - continuous function, 18
 - continuous on compact set, 43
 - crisp fuzzy point, 32
- D
 - (fuzzy)
 - δ -closed set, 17, 18
 - δ -closure $\delta-clA$, 17
 - δ -cluster point, 17
 - δ -continuous on a fuzzy nearly compact set, 43
 - δ -equicontinuous , 45
 - δ -interior $\delta-intA$, 17
 - δ -open set, 17
 - De Morgan's laws, 12
 - disconnected, 125
- E
 - (fuzzy)
 - equicontinuous, 45
 - evaluation map, 69
- F
 - FTR , 113
 - FTS , 128
 - (fuzzy)
 - filter base, 85
 - fuzzy point fuzzy-open topology

- fp-fo*, 129
- fully stratified *fts*, 14, 122
- function, 13
- fuzzy point
- q -coincident, 16
- G
- (fuzzy)
- $GS-T_2$, 20
- H
- (fuzzy)
- Hausdorff, 20
- homeomorphism, 18
- I
- (fuzzy)
- ideal, 123
- interior $intA$, 15
- left ideal, 123
- right ideal, 123
- initial fuzzy topology, 21
- J
- (jointly fuzzy)
- δ -continuous, 43
- δ -continuous on fuzzy near compacta, 43
- continuous, 42
- continuous on fuzzy compacta, 43
- L
- (fuzzy)
- left continuous function, 107
- laminated fuzzy topology, 14
- left fuzzy topological ring (left *ftr*), 108
- N
- (fuzzy)
- nearly compact regular open topology F_{NR} , 31
- nearly compact set, 21
- neighborhood *nb.*, 16
- net, 85
- O
- (fuzzy)
- open q -*nb.*, 16
- open function, 18
- open neighbourhood, 16
- open set, 14, 15
- P
- (*ps*)
- $-\delta$ closed fuzzy set, 53
- $-\delta$ topology, 53

- $cl(A)$, 82
 - $int(A)$, 82
 - adherent point of fuzzy filter base, 86
 - cluster point of fuzzy filter base, 86
 - convergent point of fuzzy filter base, 86
 - convergent point of fuzzy net, 85
 - (*ps-ro*)
 - nbd.*, 83
 - q-nbd.*, 83
 - closed fuzzy filter base, 85
 - closed fuzzy set, 56
 - continuous, 97
 - fuzzy topology, 56
 - open *nbd.*, 83
 - open *q-nbd.*, 83
 - open cover, 86
 - open fuzzy filter base, 85
 - open fuzzy set, 56
 - open subcover, 86
 - quasi neighbourhood, 83
 - (fuzzy)
 - point open topology $F-p-o$, 129
 - point regular open topology FPR , 32
 - point, 11
 - product space, 19
 - pseudo nearly compact, 86
 - (pseudo)
 - δ -admissible, 74
 - δ -admissible on starplus near compacta, 74
 - δ -closed fuzzy set, 53
 - δ -open fuzzy set, 53
 - fuzzy δ -continuous function, 75
 - fuzzy *ro*-continuous, 97
 - regular closed fuzzy set, 52
 - regular open fuzzy set, 52
 - fuzzy δ -continuous, 57
 - pointwise fuzzy topology, 70
 - product fuzzy set, 13
- Q
- q-nbd.*, 16
 - q*-coincident, 16
 - quasi coincident(*q*-coincident), 16
 - quasi neighbourhood, 16
- R
- Rng*, 128
 - (fuzzy)

regular , 20
regular closed set, 17
regular open set, 17

S

(fuzzy)
set, 11
somewhat almost regular, 40
somewhat regular, 40
subbase, 15
subbasic open set, 15
starplus nearly compact, 63
Starplus nearly compact pseudo reg-
ular open fuzzy topology τ_{*NC} ,
69
stratified fuzzy topology, 14
strong α -level set, 21
strong α -level topology, 21
strong irresolute, 97
support, 11

T

TopRng, 116
(fuzzy)
 T_2 , 19
topological property, 18
topological space, 14
topology, 14

