

shortest link  
survivable  
techniques networks  
vt  
resource  
pheromone  
wdm  
network  
paths  
success  
colony  
ea  
optical  
ant  
search  
based  
solutions  
virtual  
physical  
evolutionary  
constraints  
fitness  
links  
usage  
optimization  
path  
capacity  
topology  
mapping  
probability  
first  
lightpaths  
lightpath  
algorithm  
algorithm  
offspring  
table  
approach  
wavelength  
population