Tobias Grosche

Computational Intelligence in Integrated Airline Scheduling

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Acronyms

3-MET	Three-day maintenance Euler tour
AEA	Association of European Airlines
ATA	Air Transportation Association of America
ATC	air traffic control
BB	building block
BTS	Bureau of Transportation Statistics
CRS	computer reservations system
CS	calibration set
DSS	decision support system
EA	evolutionary algorithm
EIS	custom model for the estimation of itinerary shares
ES	evolution strategy
FAA	Federal Aviation Administration
FIFO	first-in-first-out
GA	genetic algorithm
GDP	gross domestic product
GDS	global distribution system
GP	genetic programming
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IP	integer programming
LCC	low-cost carrier
LIFO	last-in-first-out
LL	log-likelihood
LOF	line-of-flying
LP	linear programming
MIDT	Market Information Data Tapes
MLE	maximum likelihood estimator
MNL	multinomial logit (model)
MSE	mean squared error
NFL	No-Free-Lunch Theorem

NUTS	Nomenclature des unités territoriales statistiques
OAG	Official Airline Guide
OR	operations research
O&D	origin and destination
PAX	passenger(s)
RPK	revenue passenger kilometer
RPM	revenue passenger mile
SA	simulated annealing
SCP	set covering problem
SD	standard deviation
SLF	seat load factor
SPP	set partitioning problem
TA	threshold accepting
UTC	Universal Time Coordinated
VS	validation set
rGA	selecto-recombinative genetic algorithm