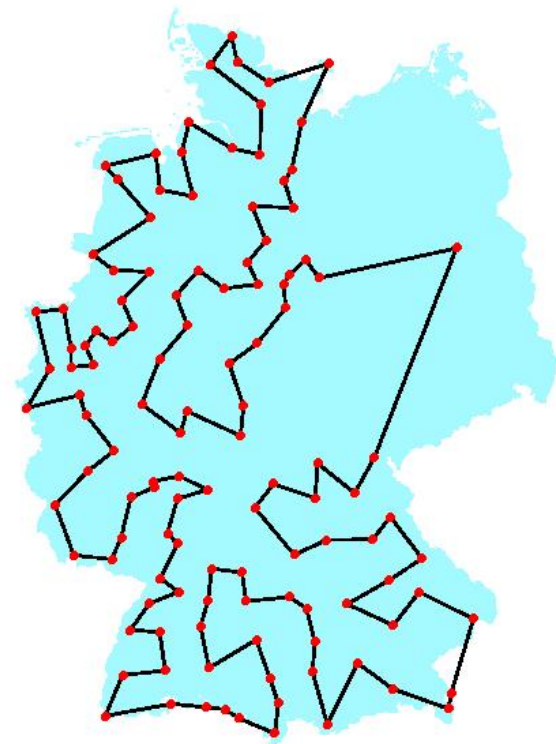


3rd Artificial Intelligence CUP

Symmetric Travelling salesman problem, a classical combinatorial optimization problem.

Problem: given N cities, and a distance function d between cities (usually distance), find a tour that:

- goes through every city once and only once
- minimizes the total distance



3rd Artificial Intelligence CUP

Information and Knowledge
Management course

Problems from TSPLIB

10 benchmark instances

Students have to propose and
to implement their heuristic
algorithm and to test it on the
benchmark set

Max number of seconds x run
(3 min)

Return the best computed
solution for each instance

Problem	Best Known
ch130	6110
d198	15780
eil76	538
fl1577	22249
kroa100	21282
lin318	42029
pcb442	50778
pr439	107217
rat783	8806
u1060	224094

AI CUP 2008 Results

2 students below 12% average error

Paolo Calciati

Alejandro Garcia

AI CUP 2008 Results

THE WINNER IS Alejandro Garcia

Problem	Best Known	Calciati	Error	Garcia	Error
ch130	6110	6242	2.2%	6124	0.2%
d198	15780	16335	3.5%	16041	1.7%
eil76	538	538	0.0%	539	0.2%
fl1577	22249	26363	18.5%	23261	4.5%
kroa100	21282	21464	0.9%	21328	0.2%
lin318	42029	46494	10.6%	43039	2.4%
pcb442	50778	56652	11.6%	52331	3.1%
pr439	107217	119567	11.5%	110656	3.2%
rat783	8806	11599	31.7%	11062	25.6%
u1060	224094	276168	23.2%	286564	27.9%
	Error		11.4%		6.9%