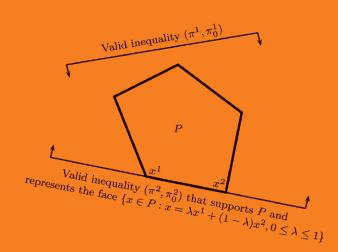
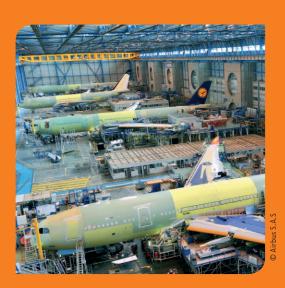
Double Diplôme Nantes Bruxelles

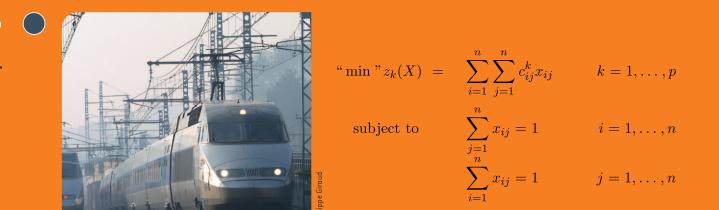
International Postgraduate Program MSc in Computer Science **Optimization in Operations Research** http://oro.univ-nantes.fr





Eight Specialized Areas

Graphs and Mathematical Programming **Computational Intelligence Constraint Programming** Nonlinear Programming **Multi-Objective Optimization** Multicriteria Decision Aid Supply-Chain Optimization **Computational Bioinformatics**



Some application domains

Computing (big data, data mining, cloud computing) -Design (mechanical, VLSI) – Logistics (port, airport, humanitarian, distribution) – Management (traffic, projet, team, energy, sport) – Transportation (urban, air, maritime, road, space) – Production (planning, timetabling, inventory control, scheduling) – Telecom – Network – Health – Bioinformatics – Robotics – Finance – Agri-food – Cutting – Loading – Games



DE BRUXELLES

Procedure DepositPheromone(k)

Input: k /* ant identifier $\Delta \tau \leftarrow 1/ant[k].tour_length;$ for $i \leftarrow 1$ to n do $j \leftarrow ant[k].tour[i];$ $l \leftarrow ant[k].tour[i+1];$ $pheromone[j][l] \leftarrow pheromone[j][l] + \Delta \tau;$ $pheromone[l][j] \leftarrow pheromone[j][l];$



Application Deadlines

Early Applications: April 1st Late Applications: Mid of June Applications are processed periodically Early applications are encouraged More about the program and applications on our website

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