

## CONFERENCIA

# **The mine planning problem: mathematical models for the optimal extraction of ore from an open pit mine**

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## Resumen

In this talk we analyze the mathematical framework for the open pit mine planning problem, based on binary decision variables, which gives rise to large-scale Mixed Integer Programming problems. We examine the main properties of the solutions in both the static and dynamic cases. We also present some numerical strategies and heuristics for finding efficient solutions in large instances.