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New inequalities for a capacitated survivable network design problem

In this talk we present a new class of inequalities for a polytope associated with a capacitated survivable network design problem. In the underlying problem, which came up in a practical application with a german mobile-phone company, we wish to choose a capacity for each available link of the network such that the overall cost is minimal, the estimated communication demands can be routed and the network satisfies certain survivability requirements.