

example2

Example of discretized semi-infinite programming

$$\min \frac{1}{3} * x_1^2 + x_2^2 + \frac{x_1}{2}$$

Subject to

$$x_2^2 - x_2 + x_1 * t^2 - (1 - x_1^2 * t^2)^2 \geq 0, \quad t \in [0, 1]$$

```
alignl stack{"Example of discretized semi-infinite programming"#
min {1 over 3}*x_1^2+x_2^2+x_1 over 2 #
"Subject to"#
x_2^2-x_2+x_1*t^2-(1-x_1^2*t^2)^2 >=0,~ t in [0,1]
}
```