May 19, 2022

Exercise 04
Algorithmic Foundations of Data Science
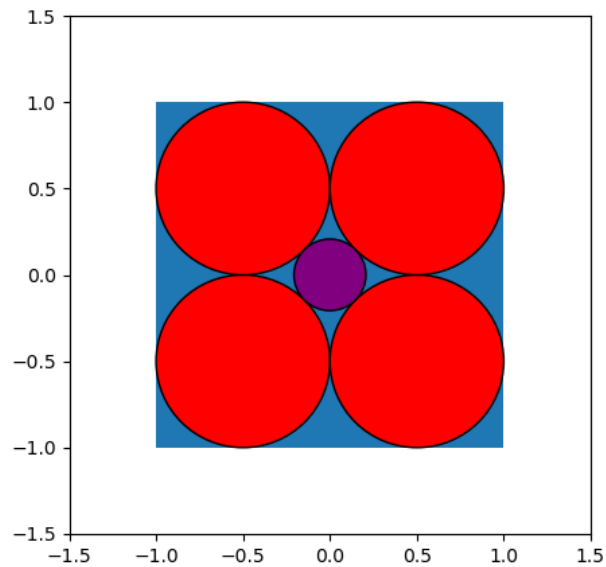
Fabian Grob
Simon Michau
Til Mohr

Exercise 1

(a)

Situation for l=2 and s=2:

$$Q_{2,2} = \{[x_1 x_2]^T \in \mathbb{R}^2 \mid |x_i| \leq 1 \text{ for all } i = 1, 2\} = [-1, 1]^2$$

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Exercise 04
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(b)

Exercise 2

(a)

(b)

Exercise 3

(a)

(b)

(c)

(d)

Exercise 4

(a)

(b)

(c)

(d)

(e)

Exercise 5