



# ESTIMATION GRAPHICAL MODEL

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# **Chapter 1**

## **Introduction**



## **Chapter 2**

# **Review and background of directed acyclic model estimation.**





## **Chapter 3**

# **Methods**



## **Chapter 4**

# **Theoretical properties**



## **Chapter 5**

# **Simulation**



## **Chapter 6**

# **Application to TCGA data**





## **Chapter 7**

## **Reference**