

Track patient recovery in real-time by processing streaming data

BIOMEDICAL DATA DESIGN

TA: Haoyin Xu

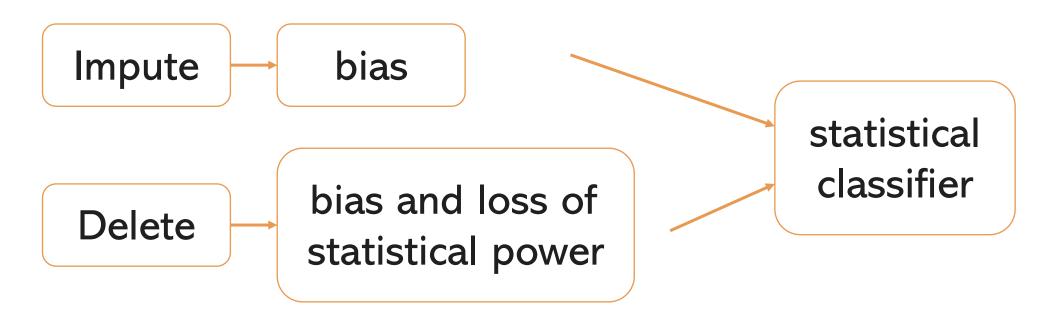
Group:Zhenyu Xiao Haobin Zhou Yimeng Xu Emma Cardenas

Content 01 Missing data processing

Missing data processing

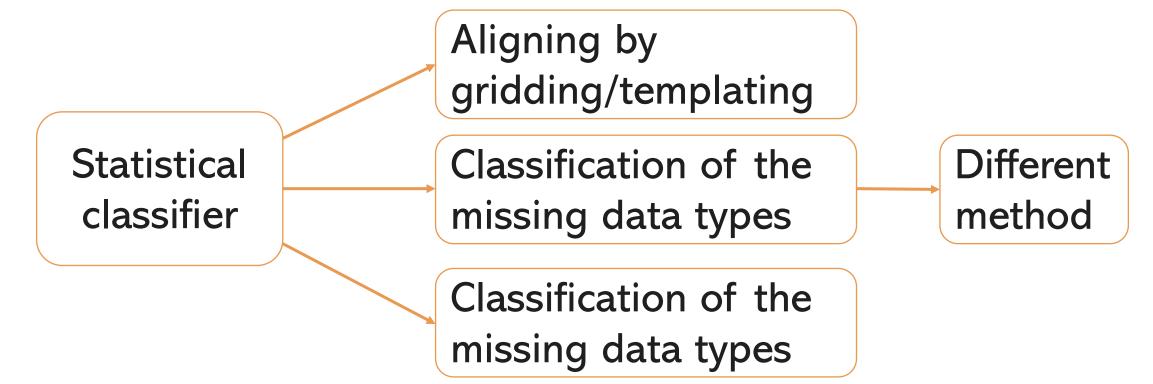
Missing data processing

Missing data in medical databases: Impute, delete or classify?

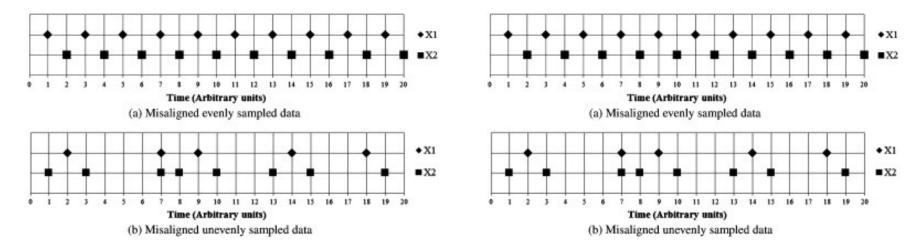


Missing data processing

Missing data in medical databases: Impute, delete or classify?



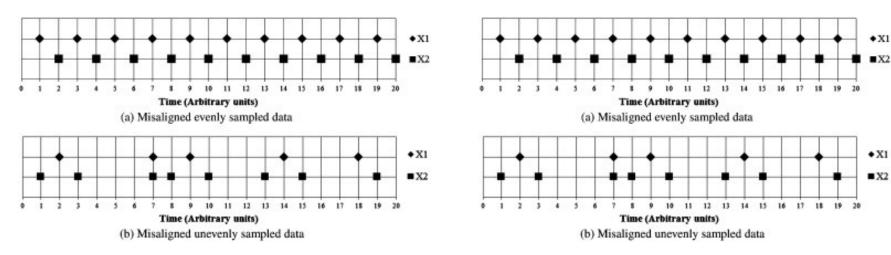
Missing data processing: Aligning



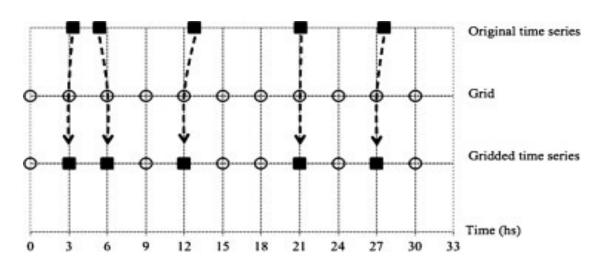
Evenly

Unevenly: the worst

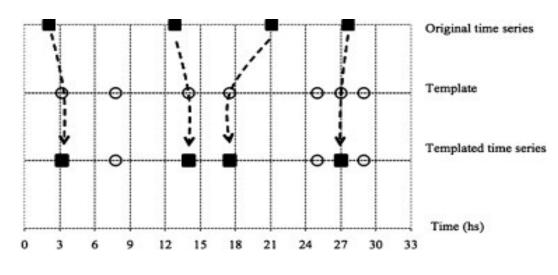
Missing data processing: Aligning



Evenly



Unevenly: the worst

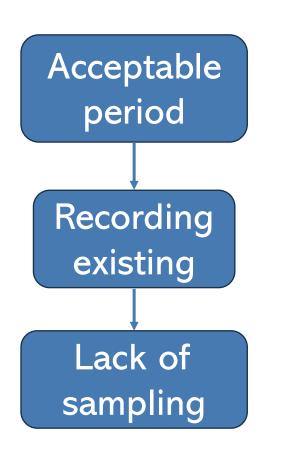


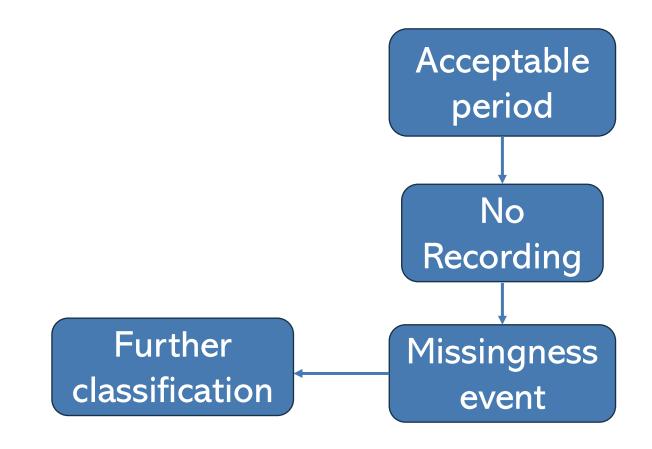
Gridding

Templating

Missing data processing: Missing data processing

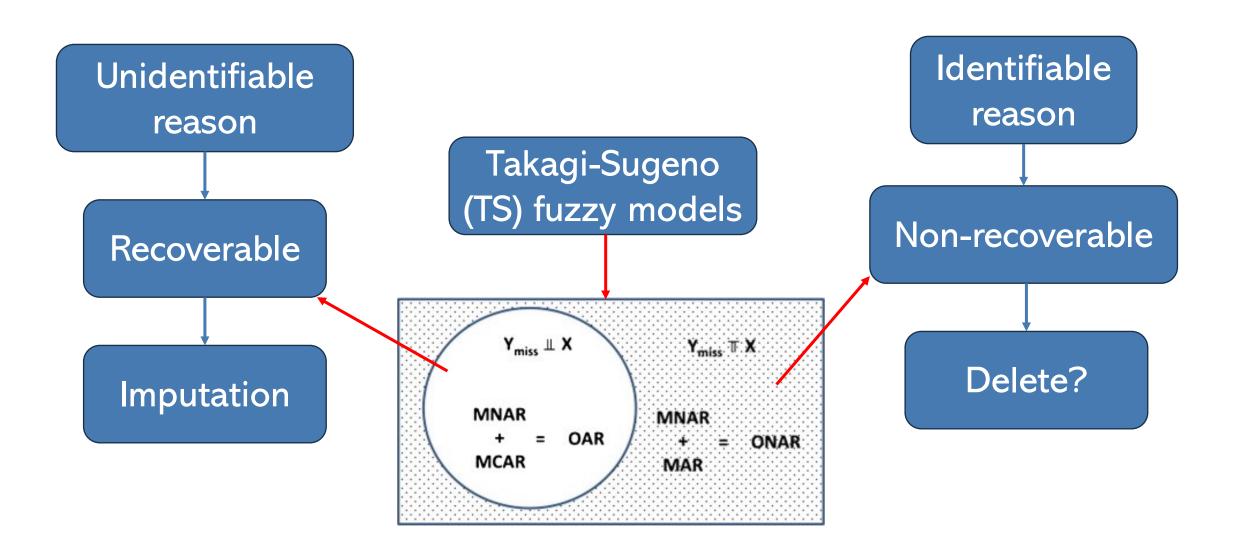
Classification: Lack of sampling vs. True missing data





Missing data processing: Missing data processing

Classification: Recoverable & Non-recoverable



Missing data processing: Imputation

Adaptive imputation of missing values for incomplete pattern classification

Zhun-ga Liu ^a ○ ⋈, Quan Pan ^a, Jean Dezert ^b ⋈, Arnaud Martin ^c ⋈

K-nearest neighbor (K-NN) and Self-Organizing Map

Hybrid prediction model with missing value imputation for medical data

Archana Purwar 🙎 🖾 , Sandeep Kumar Singh 🖾

K-means clustering and analysis of 11 imputation method

