

- 2.5 Genetic Algorithms
- 2.6 Preprocessing steps
- 2.7 isomap dimension reduction

Preprocessing and methods

| ID | Paper | Year | Keywords | Resources |
|-----|---|------|----------------------------------|---|
| 2.1 | SalivaDirect by Yale University | 2020 | Methods | pdf notes summary |
| 2.2 | Maldi-MS Nasal swab ML | 2020 | Methods | pdf summary notes Supplementary information |
| 2.3 | Mass Spec- trometry for COVID-19 | 2020 | Methods | notes summary pdf Supplementary information |
| 2.4 | NORMALIZATION BASELINE CORREC- TION spectrometer preprocessing | 2020 | Spectrometer preprocessing | pdf summary notes code |
| 2.5 | MALDI- TOFMS data | 2011 | preprocess | pdf notes summary code |
| 2.6 | Automated workflow for MALDI- ToF mass spectra pattern | 2019 | preprocess feature extraction | pdf notes summary code |
| 2.7 | Review of methods for covid-19 | 2020 | review | pdf notes summary |
| 2.8 | ANN on smaller dataset | 2019 | methods | pdf notes summary |
| 2.9 | ML on smaller dataset | 2019 | methods | pdf notes summary |

| ID | Paper | Year | Keywords | Resources |
|------|--|------|----------|-------------------|
| 2.10 | SVM on smaller dataset | 2018 | methods | pdf notes summary |
| 2.11 | Machine learning method based on the genetic and world competitive contests algorithms | 2021 | methods | pdf notes summary |

Evolution of testing methods for covid-19

| ID | Paper | Year | Keywords | Resources |
|-----|--|-------------|-----------------|------------------------|
| 1.1 | Assay Techniques and Test Development for COVID-19 Diagnosis | April, 2020 | test techniques | pdf notes summary code |
| 1.2 | Name | year | key | pdf notes summary code |
| 1.3 | Name | year | key | pdf notes summary code |

References

| ID | Reference | Year | Keywords | Resources |
|-----|--|------|--|-----------------------|
| r.1 | An Automated Allele-calling System for High-throughput Microsatellite Genotyping | 2003 | Dynamic programming and smoothening curves | pdf Loc summary |
| r.2 | Genetic Algorithm implementation | 2010 | GA | pdf notes loc summary |
| r.3 | Local Signal to Noise Ratio | 2006 | Noise | pdf |
| r.4 | World competitive contests | 2016 | wrapper for GA | pdf |