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| PlotParametricCurve {RJafroc} | R Documentation |

Plot parametric curve

**Description**

Plot parametric curves for specified modalities and readers in the dataset. Only FROC data is allowed and search model predicted parametric curves are shown.

**Usage**

PlotParametricCurve(data, modalities, readers, legendPosition = "right",

curve = "ROC")

**Arguments**

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| --- | --- |
| data | See [PlotEmpiricalCurve](http://127.0.0.1:27779/help/library/RJafroc/help/PlotEmpiricalCurve). |
| modalities | See [PlotEmpiricalCurve](http://127.0.0.1:27779/help/library/RJafroc/help/PlotEmpiricalCurve). |
| readers | See [PlotEmpiricalCurve](http://127.0.0.1:27779/help/library/RJafroc/help/PlotEmpiricalCurve). |
| legendPosition | See [PlotEmpiricalCurve](http://127.0.0.1:27779/help/library/RJafroc/help/PlotEmpiricalCurve). |
| curve | See [PlotEmpiricalCurve](http://127.0.0.1:27779/help/library/RJafroc/help/PlotEmpiricalCurve). |

**Value**

A **ggplot2** object of the plotted curves and the search model parameters of the curves are returned. Following are the returned objects of ROC curves.

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| ROCPlot | **ggplot2** object. Uses print function to display the plot. |
| lambda, mu, nu | Data frame with three column: search model parameter lambda (see [OperatingCharacteristics](http://127.0.0.1:27779/help/library/RJafroc/help/OperatingCharacteristics)) modality and reader. |
| mu | Similar to "lambda". |
| nu | Similar to "lambda". |

**Examples**

plotM <- c(1:2)

plotR <- c(1:3)

PlotParametricCurve(data = frocData, modalities = plotM, readers = plotR,

legendPosition = "bottom", curve = "ROC")

## Above is the example of plotting individual ROC curves of modalities 1 and 2 and readers 1 to 3.

## Six curves will be plotted, which are curves of reader 1 modality 1, reader 1 modality 2, reader 2 modality 1,

## reader 2 modality 2, reader 3 modality 1 and reader 3 modality 2. It returns a plot of the six curves and

## the search model parameters of them.

plotM <- list(1, 2, c(1:2))

plotR <- list(2, c(2:3), c(1:3))

PlotParametricCurve(data = frocData, modalities = plotM, readers = plotR,

legendPosition = "bottom", curve = "ROC")

PlotParametricCurve(data = frocData, modalities = plotM, readers = plotR,

legendPosition = "bottom", curve = "AFROC")

PlotParametricCurve(data = frocData, modalities = plotM, readers = plotR,

legendPosition = "bottom", curve = "FROC")

## Above is the example of plotting three ROC, AFROC and FROC curves. They are the individual curve of modality 1 reader 1,

## the averaged curve of modality 2 and reader 2 and 3 and the averaged curve of modality 1 and 2 and reader 1 to 3.

[Package *RJafroc* version 1.0 [Index](http://127.0.0.1:27779/help/library/RJafroc/html/00Index.html)]