plotRadarPerformanceTable

From MCDA v0.0.14
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Function To Plot Radar Plots Of Alternatives Of A Performance Table.

Plots radar plots of alternatives contained in a performance table, either in one radar plot, or on multiple radar plots. For a given alternative, the plot shows how far above/below average (the thick black line) each of the criteria performances values are (average taken w.r.t. to the filtered performance table).

Keywords methods

Usage

```
plotRadarPerformanceTable(performanceTable,  criteriaMinMax=NULL,  alternativesIDs = NULL,  criteriaIDs = NULL,  overlay=FALSE, bw=FALSE, lwd=2)
```

Arguments

performanceTable A matrix containing the performance table to be plotted. The columns are labelled according to the criteria IDs, and the rows according to the alternatives IDs.

criteriaMinMax Vector indicating whether criteria should be minimized or maximized. If it is given, a "higher" value in the radar plot corresponds to a more preferred value according to the decision maker. "min" (resp. "max") indicates that the criterion has to be minimized (maximized). The elements are named according to the IDs of the criteria.

alternativesIDs Vector containing IDs of alternatives, according to which the data should be filtered.

criteriaIDs Vector containing IDs of criteria, according to which the data should be filtered.

overlay Boolean value indicating if the plots should be overlayed on one plot (TRUE), or not (FALSE)

bw Boolean value indicating if the plots should be in black/white (TRUE) or color (FALSE)

lwd Value indicating the line width of the plot.

Examples

```
library(MCDA)

performanceTable <- matrix(runif(6*9), ncol=6)

row.names(performanceTable) <- c("x1","x2","x3","x4","x5","x6","x7","x8","x9")

colnames(performanceTable) <- c("g1","g2","g3","g4","g5","g6")

criteriaMinMax <- c("min","max","min","max","min","max")

names(criteriaMinMax) <- c("g1","g2","g3","g4","g5","g6")

# plotRadarPerformanceTable(performanceTable, criteriaMinMax, overlay=TRUE)

plotRadarPerformanceTable(performanceTable, criteriaMinMax,
                          alternativesIDs = c("x1","x2","x3","x4"),
                          criteriaIDs = c("g1","g3","g4","g5","g6"),
                          overlay=FALSE, bw=FALSE)

# plotRadarPerformanceTable(performanceTable, criteriaMinMax,
#                           alternativesIDs = c("x1","x2"),
#                           criteriaIDs = c("g1","g3","g4","g5","g6"),
#                           overlay=FALSE)
```

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Community examples

Looks like there are no examples yet.

Post a new example:

```
## New example
Use markdown to format your example

R code blocks are runnable and interactive:
```r
a <- 2
print(a)
```

You can also display normal code blocks
```
var a = b
```
```