dcConverter

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`dcConverter` *Function to convert an object between graph classes*

Description

`dcConverter` is supposed to convert an object between classes 'Onto' and 'igraph', or between 'Dnetwork' and 'igraph', or between 'Cnetwork' and 'igraph'.

Usage

```
dcConverter(obj, from = c("Onto", "igraph", "Dnetwork", "Cnetwork"),
to = c("igraph", "Onto", "Dnetwork", "Cnetwork"), verbose = TRUE)
```

Arguments

`obj`	an object of class "Onto", "igraph", "Dnetwork" or "Cnetwork"
`from`	a character specifying the class converted from. It can be one of "Onto", "igraph", "Dnetwork" and "Dnetwork"
`to`	a character specifying the class converted to. It can be one of "Onto", "igraph", "Dnetwork" and "Dnetwork"
`verbose`	logical to indicate whether the messages will be displayed in the screen. By default, it sets to true for display

Value

an object of class "Onto", "igraph", "Dnetwork" or "Cnetwork"

Note

Conversion is also supported between classes 'Onto' and 'igraph', or between 'Dnetwork' and 'igraph', or between 'Cnetwork' and 'igraph'

See Also

`dcRDataLoader`, `Onto-class`, `Dnetwork-class`, `Cnetwork-class`

Examples

```
## Not run:
# 1) conversion between 'Onto' and 'igraph'
# 1a) load onto.GOMF (as 'Onto' object)
on <- dcRDataLoader('onto.GOMF')
on
# 1b) convert the object from 'Onto' to 'igraph' class
ig <- dcConverter(on, from='Onto', to='igraph')
ig
# 1c) convert the object from 'igraph' to 'Onto' class
dcConverter(ig, from='igraph', to='Onto')

# 2) conversion between 'Dnetwork' and 'igraph'
# 2a) computer a domain semantic network (as 'Dnetwork' object)
g <- dcRDataLoader('onto.GOMF')
Anno <- dcRDataLoader('SCOP.sf2GOMF')
dag <- dcDAGannotate(g, annotations=Anno, path.mode="shortest_paths",
verbose=FALSE)
alldomains <- unique(unlist(nInfo(dag)$annotations))
domains <- sample(alldomains,5) # randomly sample 5 domains
dnetwork <- dcDAGdomainSim(g=dag, domains=domains,
method.domain="BM.average", method.term="Resnik", parallel=FALSE,
verbose=FALSE)
dnetwork
# 2b) convert the object from 'Dnetwork' to 'igraph' class
ig <- dcConverter(dnetwork, from='Dnetwork', to='igraph')
ig
# 2c) convert the object from 'igraph' to 'Dnetwork' class
dcConverter(ig, from='igraph', to='Dnetwork')

## End(Not run)
```