Circular Economy Ontology Network (CEON) - Quantity Module

Metadata

IRI

http://w3id.org/CEON/ontology/quantity/

Title

Circular Economy Ontology Network (CEON) - Quantity Module

Creator

Huanyu Li

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Version Iri

http://w3id.org/CEON/ontology/quantity/0.2/

Version Info

0.2

Preferred Namespace Prefix

quantity

Preferred Namespace Uri

http://w3id.org/CEON/ontology/quantity/

Description

This module defines base properties to describe quantitites with standardized units.

Classes

Quantity Interval^C

In Domain Of

hasMaximalValueIncludedOfInterval^{op} hasMaximalValueNotIncludedOfInterval^{op} hasMinimalValueIncludedOfInterval^{op} hasMinimalValueNotIncludedOfInterval^{op}

Object Properties

has dimension op

IRI http://w3id.org/CEON/ontology/quantity/hasDimension

Sub Property Of qudt:quantityValue

Super Property Of

- <u>hasHeight</u>^{op}
- hasLength^{op}
- hasThickness^{op}
- hasWidth^{op}

has dismantling cost op

Sub Property Of hasProcessCost^{op}

has height^{op}

IRI http://w3id.org/CEON/ontology/quantity/hasHeight

Sub Property Of hasDimension op

has length op

IRI http://w3id.org/CEON/ontology/quantity/hasLength

Sub Property Of hasDimension op

has market value op

Sub Property Of qudt:quantityValue

has maximal value included of interval op

udedOfInterval

Sub Property Of <u>qudt:quantityValue</u>

<u>Domain</u> <u>QuantityInterval</u>^c

Range <u>qudt:QuantityValue</u>

has maximal value not included of interval op

IRI http://w3id.org/CEON/ontology/quantity/hasMaximalValueNotI

ncludedOfInterval

Sub Property Of qudt:quantityValue

Domain QuantityInterval^c

Range <u>qudt:QuantityValue</u>

has minimal value included of interval op

IRI http://w3id.org/CEON/ontology/quantity/hasMinimalValueIncl

udedOfInterval

Sub Property Of qudt:quantityValue

Domain QuantityInterval^C

Range <u>qudt:QuantityValue</u>

has minimal value not included of interval op

IRI http://w3id.org/CEON/ontology/quantity/hasMinimalValueNotI

ncludedOfInterval

Sub Property Of <u>qudt:quantityValue</u>

Domain QuantityInterval^C

Range <u>qudt:QuantityValue</u>

has price op

Sub Property Of qudt:quantityValue

has process cost op

Sub Property Of qudt:quantityValue

Super Property Of

- hasDismantlingCost^{op}
- hasRecyclingCost op
- hasRefurbishmentCostop
- <u>hasTestingCost</u>op
- hasTransportCost^{op}

has recycling cost op

Sub Property Of hasProcessCost op

has refurbishment cost op

IRI http://w3id.org/CEON/ontology/quantity/hasRefurbishmentCos

t

Sub Property Of hasProcessCost^{op}

has testing cost op

Sub Property Of hasProcessCost op

has thickness op

Sub Property Of hasDimension op

has transport cost op

Sub Property Of hasProcessCost op

has volume op

Sub Property Of <u>qudt:quantityValue</u>

has weight op

IRI http://w3id.org/CEON/ontology/quantity/hasWeight

Sub Property Of qudt:quantityValue

has width op

IRI http://w3id.org/CEON/ontology/quantity/hasWidth

Sub Property Of hasDimension op

object value op

IRI http://w3id.org/CEON/ontology/quantity/objectValue

Sub Property Of topObjectProperty op

Datatype Properties

numerical max value dp

IRI http://w3id.org/CEON/ontology/quantity/numericalMaxValue

Range <u>xsd:double</u>

numerical min value ^{dp}

IRI http://w3id.org/CEON/ontology/quantity/numericalMinValue

Sub Property Of topDataProperty dp

Range xsd:double

Annotation Properties

creator ap

IRI http://purl.org/dc/terms/creator

description ap

IRI http://purl.org/dc/terms/description

title ap

IRI http://purl.org/dc/terms/title

preferred namespace prefix ap

preferred namespace uri ap

IRI http://purl.org/vocab/vann/preferredNamespaceUri

Namespaces

```
:
    http://w3id.org/CEON/ontology/quantity/
dcterms
    http://purl.org/dc/terms/
owl
    http://www.w3.org/2002/07/owl#
prov
    http://www.w3.org/ns/prov#
```

```
qudt
    http://qudt.org/schema/qudt/
qudt-unit
    http://qudt.org/vocab/unit/
rdf
    http://www.w3.org/1999/02/22-rdf-syntax-ns#
rdfs
    http://www.w3.org/2000/01/rdf-schema#
vann
    http://purl.org/vocab/vann/
xsd
    http://www.w3.org/2001/XMLSchema#
```

Legend

С	Classes
ор	Object Properties
dp	Datatype Properties
ар	Annotation Properties