Description logic view: BFO-Occurrents

Classes

ConnectedSpatiotemporalRegion

ConnectedSpatiotemporalRegion $\equiv$ SpatiotemporalInstant $\sqcup$ SpatiotemporalInterval
ConnectedSpatiotemporalRegion $\sqsubseteq$ SpatiotemporalRegion
ConnectedSpatiotemporalRegion $\sqsubseteq \neg$ ScatteredSpatiotemporalRegion

ConnectedTemporalRegion

ConnectedTemporalRegion $\equiv$ TemporalInstant $\sqcup$ TemporalInterval
ConnectedTemporalRegion $\sqsubseteq$ TemporalRegion
ConnectedTemporalRegion $\sqsubseteq \neg$ ScatteredTemporalRegion

Entity

FiatProcessPart

FiatProcessPart $\sqsubseteq$ ProcessualEntity
FiatProcessPart $\sqsubseteq \neg$ ProcessualContext
FiatProcessPart $\sqsubseteq \neg$ Process
FiatProcessPart $\sqsubseteq \neg$ ProcessAggregate
FiatProcessPart $\sqsubseteq \neg$ ProcessBoundary

Occurrent

Occurrent $\equiv$ ProcessualEntity $\sqcup$ SpatiotemporalRegion $\sqcup$ TemporalRegion
Occurrent $\sqsubseteq$ Entity

Process

Process $\sqsubseteq$ ProcessualEntity
Process $\sqsubseteq \neg$ ProcessAggregate
Process $\sqsubseteq \neg$ FiatProcessPart
Process $\sqsubseteq \neg$ ProcessBoundary
Process $\sqsubseteq \neg$ ProcessualContext

ProcessAggregate

ProcessAggregate $\sqsubseteq$ ProcessualEntity
ProcessAggregate $\sqsubseteq \neg$ Process
ProcessAggregate $\sqsubseteq \neg$ ProcessBoundary
ProcessAggregate $\sqsubseteq \neg$ ProcessualContext
ProcessAggregate $\sqsubseteq \neg$ FiatProcessPart

ProcessBoundary

ProcessBoundary $\sqsubseteq$ ProcessualEntity
ProcessBoundary $\sqsubseteq \neg$ ProcessAggregate
ProcessBoundary $\sqsubseteq \neg$ Process
ProcessBoundary $\sqsubseteq \neg$ FiatProcessPart
ProcessBoundary $\sqsubseteq \neg$ ProcessualContext

ProcessualContext

ProcessualContext $\sqsubseteq$ ProcessualEntity
ProcessualContext $\sqsubseteq \neg$ FiatProcessPart
ProcessualContext $\sqsubseteq \neg$ ProcessAggregate
ProcessualContext $\sqsubseteq \neg$ Process
ProcessualContext $\sqsubseteq \neg$ ProcessBoundary

ProcessualEntity

ProcessualEntity $\equiv$ FiatProcessPart $\sqcup$ Process $\sqcup$ ProcessAggregate $\sqcup$ ProcessBoundary $\sqcup$ ProcessualContext
ProcessualEntity $\sqsubseteq$ Occurrent
ProcessualEntity $\sqsubseteq \neg$ TemporalRegion
ProcessualEntity $\sqsubseteq \neg$ SpatiotemporalRegion

ScatteredSpatiotemporalRegion

ScatteredSpatiotemporalRegion $\sqsubseteq$ SpatiotemporalRegion
ScatteredSpatiotemporalRegion $\sqsubseteq \neg$ ConnectedSpatiotemporalRegion

ScatteredTemporalRegion

ScatteredTemporalRegion $\sqsubseteq$ TemporalRegion
ScatteredTemporalRegion $\sqsubseteq \neg$ ConnectedTemporalRegion

SpatiotemporalInstant

SpatiotemporalInstant $\sqsubseteq$ ConnectedSpatiotemporalRegion
SpatiotemporalInstant $\sqsubseteq \neg$ SpatiotemporalInterval

SpatiotemporalInterval

SpatiotemporalInterval $\sqsubseteq$ ConnectedSpatiotemporalRegion
SpatiotemporalInterval $\sqsubseteq \neg$ SpatiotemporalInstant

SpatiotemporalRegion

SpatiotemporalRegion $\equiv$ ConnectedSpatiotemporalRegion $\sqcup$ ScatteredSpatiotemporalRegion
SpatiotemporalRegion $\sqsubseteq$ Occurrent
SpatiotemporalRegion $\sqsubseteq \neg$ ProcessualEntity
SpatiotemporalRegion $\sqsubseteq \neg$ TemporalRegion

TemporalInstant

TemporalInstant ⊑ ConnectedTemporalRegion
TemporalInstant ⊑ ¬ TemporalInterval

TemporalInterval

TemporalInterval ⊑ ConnectedTemporalRegion
TemporalInterval ⊑ ¬ TemporalInstant

TemporalRegion

TemporalRegion ≡ ConnectedTemporalRegion ⊔ ScatteredTemporalRegion
TemporalRegion ⊑ Occurrent
TemporalRegion ⊑ ¬ ProcessualEntity
TemporalRegion ⊑ ¬ SpatiotemporalRegion

Object properties

Data properties

Individuals

Datatypes

string