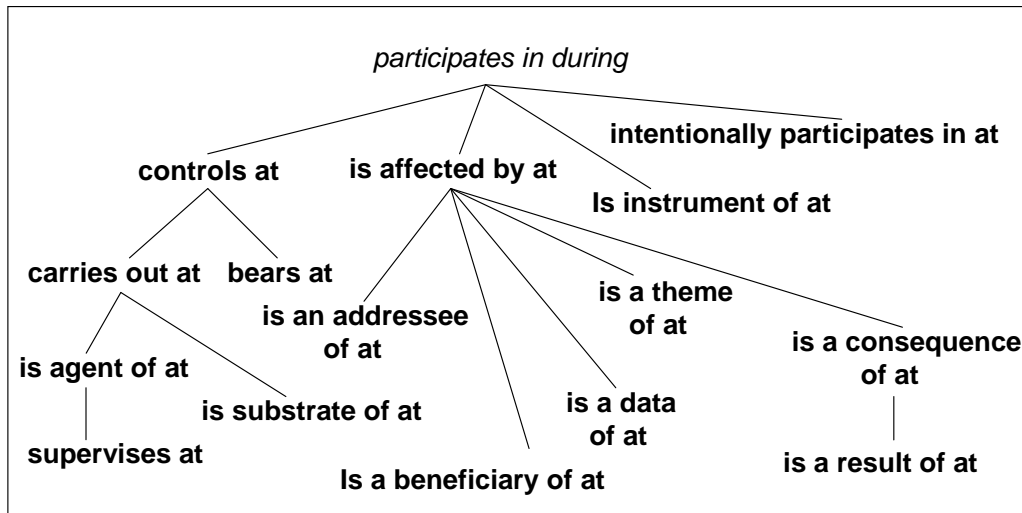


Participant role-OS

// Metadata

Name	Participant role-OS
Keywords	Agent, Supervisor, Affected, Addressee, Instrument, Data, Consequent, Result, Owner,
Creation date	November 1 st , 2009
Last modification date	April 14 th , 2009
Revisions made in v1.1	<ul style="list-style-type: none"> - The following relations have been added: <i>is a beneficiary of at</i> (and its inverse); <i>is a consequence of at</i> (and its inverse) - The following concepts have been added: Beneficiary, Consequent - The domain of the relations <i>is affected by at</i>, <i>is data of at</i>, <i>is instrument of at</i>, and <i>is result of at</i> has been set to Particulars (rather than Endurants). - The range of the relations <i>affects at</i>, <i>has for data at</i>, <i>has for instrument at</i>, and <i>has for result at</i> has been set to Particulars (rather than Endurants). - The definition of the concept Author has been changed to refer to the action of Producing.
Revisions made in v1.2	<ul style="list-style-type: none"> - The concepts Author, Contributor and Manufacturer have been removed. - The relations <i>has for author</i>, <i>is author of</i>, <i>has for contributor</i> and <i>is contributor of</i> have been removed.
Has contributor	Gilles Kassel
Used ontology engineering methodology	OntoSpec
Is of type	Core ontology
Natural language	English
Has ontology language	OntoSpec
Has formality level	Semi-informal
Ressource locator	http://www.laria.u-picardie.fr/IC/site/IMG/pdf/Participant-role-OS.pdf
Version	1.2
Number of concepts (classes)	16
Number of relations (properties)	30

// Relations



Controls at

Properties

[EP/R1 & R2 & R3] An ENDURANT *controls* a PERDURANT *at* a TIME INTERVAL.
 [EP/SL] *x controls y at t* implies that *x participates in y during t*. [EP/IVL] *Controls at* mutually implies *is controlled by at*.

Carries out at

Properties

[EP/R1 & DR2 & R3] An ENDURANT *carries out* an EVENT or a PROCESS *at* a TIME INTERVAL. [EP/SL] *x carries out y at t* implies that *x controls y at t*. [EP/IVL] *Carries out at* mutually implies *is carried out by at*.

Is agent of at

Properties

[EP/R1 & R2 & R3] An AGENTIVE *is agent of* an ACTION *at* a TIME INTERVAL.
 [EP/SLD] *x is agent of y at t* iff *x carries out y at t* and *x intentionally participates in y at t*. [EP/IVL] *Is agent of at* mutually implies *has for agent at*.

Supervises at

Properties

[EP/R1 & DR2 & R3] An AGENTIVE *supervises* an ACTION *at* a TIME INTERVAL.
 [EP/SL] *x supervises y at t* implies that *x is agent of y at t*. [EP/IVL] *Supervises at* mutually implies *is supervised by at*.

Comment

[DIV] An AGENTIVE “supervises” an ACTION when he/she is in charge of this ACTION.

Is substrate of at

Properties

[EP/R1 & DR2 & R3] An ENDURANT *is substrate of* an EVENT or a PROCESS *at* a TIME INTERVAL. [EP/SLD] *x is substrate of y at t* iff *x carries out y at t* and *x does not intentionally participates in y at t*. [EP/IVL] *Is substrate of at* mutually implies *has for substrate at*.

Bears at

Properties

[EP/R1 & R2 & R3] An ENDURANT *bears* a STATE *at* a TIME INTERVAL. [EP/SL] *x bears y at t* implies that *x controls y at t*. [EP/IVL] *Bears at* mutually implies *is borne by at*.

Is affected by at

Properties

[EP/R1 & R2 & R3] A PARTICULAR *is affected by* a PERDURANT *at* a TIME INTERVAL. [EP/SL] *x is affected by y at t* implies that *x participates in y during t*. [EP/IVL] *Is affected by at* mutually implies *affects at*.

Is an addressee of at

Properties

[EP/R1 & R2 & R3] An AGENTIVE *is an addressee of* an ACTION *at* a TIME INTERVAL. [EP/SL] *x is an addressee of y at t* implies that *x is affected by at t*. [EP/IVL] *Is an addressee of at* mutually implies *has for addressee at*.

Is a beneficiary of at

Properties

[EP/R1 & R2 & R3] An AGENTIVE *is a beneficiary of* an ACTION *at* a TIME INTERVAL. [EP/SL] *x is a beneficiary of y at t* implies that *x is affected by at t*. [EP/IVL] *Is a beneficiary of at* mutually implies *has for beneficiary at*.

Is a data of at

Properties

[EP/R1 & R2 & R3] A PARTICULAR *is a data of* an ACTION *at* a TIME INTERVAL. [EP/SL] *x is data of y at t* implies that *x is affected by at t*. [EP/IVL] *Is a data of at* mutually implies *has for data at*.

Is a theme of at

Properties

[EP/R1 & R2 & R3] A CONCEPTUALIZATION *is a theme of* a PERDURANT *at* a TIME INTERVAL. [EP/SL] *x is a theme of y at t* implies that *x is affected by at t*. [EP/IVL] *Is a theme of at* mutually implies *has for theme at*.

Is a consequence of at

Properties

[EP/R1 & R2 & R3] A PARTICULAR *is a consequence of* a PERDURANT *at* a TIME INTERVAL. [EP/SL] *x is a consequence of y at t* implies that *x is affected by at t*. [EP/IVL] *Is a consequence of at* mutually implies *has for consequence at*.

Is a result of at

Properties

[EP/R1 & R2 & R3] A PARTICULAR *is a result of* an ACTION *at* a TIME INTERVAL. [EP/SL] *x is a result of y at t* implies that *x is a consequence of at t*. [EP/IVL] *Is a result of at* mutually implies *has for result at*.

Is an instrument of at

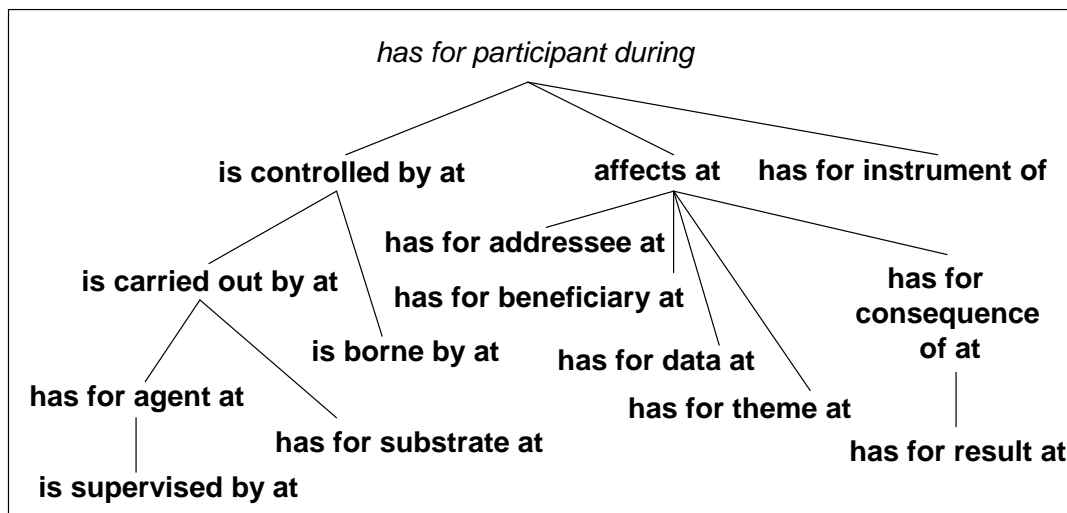
Properties

[EP/R1 & R2 & R3] A PARTICULAR *is an instrument of* a PERDURANT at a TIME INTERVAL. [EP/SL] *x is an instrument of y at t* implies that *x participates in y during t*. [EP/IVL] *Is an instrument of at* mutually implies *has for instrument at*.

Intentionally participates at

Properties

[EP/R1 & R2 & R3] An AGENTIVE *intentionally participates in* a PERDURANT at a TIME INTERVAL. [EP/SL] *x intentionally participates in y at t* implies that *x participates in y during t*.



Is controlled by at

Properties

[EP/R1 & R2 & R3] A PERDURANT *is controlled by* an ENDURANT at a TIME INTERVAL. [EP/SL] *x is controlled by y at t* implies that *x has for participant y at t*. [EP/IVL] *Is controlled by at* mutually implies *controls at*.

Is carried out by at

Properties

[EP/DR1 & R2 & R3] An EVENT or a PROCESS *is carried out by* an ENDURANT at a TIME INTERVAL. [EP/SL] *x is carried out by y at t* implies that *x is controlled by y at t*. [EP/IVL] *Is carried out by at* mutually implies *carries out at*.

Has for agent at

Properties

[EP/R1 & R2 & R3] An ACTION *has for agent* an AGENTIVE at a TIME INTERVAL. [EP/SL] *x has for agent y at t* implies that *x is carried out by y at t*. [EP/IVL] *Has for agent at* mutually implies *is agent of at*.

Is supervised by at

Properties

[EP/R1 & R2 & R3] An ACTION *is supervised by* an AGENTIVE *at* a TIME INTERVAL. [EP/SL] *x is supervised by y at t* implies that *x has for agent y at t*. [EP/IVL] *Is supervised by at* mutually implies *supervises at*.

Has for substrate at

Properties

[EP/DR1 & R2 & R3] An EVENT or PROCESS *has for substrate* an ENDURANT *at* a TIME INTERVAL. [EP/SL] *x has for substrate y at t* implies that *x is carried out by y at t*. [EP/IVL] *Has for substrate at* mutually implies *is substrate of at*.

Is borne by at

Properties

[EP/R1 & R2 & R3] A STATE *is borne by* an ENDURANT *at* a TIME INTERVAL. [EP/SL] *x is borne by y at t* implies that *x is controlled by y at t*. [EP/IVL] *Is borne by at* mutually implies *bears at*.

Affects at

Properties

[EP/R1 & R2 & R3] A PERDURANT *affects* a PARTICULAR *at* a TIME INTERVAL. [EP/SL] *x affects y at t* implies that *x has for participant y at t*. [EP/IVL] *Affects at* mutually implies *is affected by at*.

Has for addressee at

Properties

[EP/R1 & R2 & R3] An ACTION *has for addressee* an AGENTIVE *at* a TIME INTERVAL. [EP/SL] *x has for addressee y at t* implies that *x affects y at t*. [EP/IVL] *Has for addressee at* mutually implies *is an addressee of at*.

Has for beneficiary at

Properties

[EP/R1 & R2 & R3] An ACTION *has for beneficiary* an AGENTIVE *at* a TIME INTERVAL. [EP/SL] *x has for beneficiary y at t* implies that *x affects y at t*. [EP/IVL] *Has for beneficiary at* mutually implies *is a beneficiary of at*.

Has for data at

Properties

[EP/R1 & R2 & R3] An ACTION *has for data* a PARTICULAR *at* a TIME INTERVAL. [EP/SL] *x has for data y at t* implies that *x affects y at t*. [EP/IVL] *Has for data at* mutually implies *is a data of at*.

Has for theme at

Properties

[EP/R1 & R2 & R3] A PERDURANT *has for theme* a CONCEPTUALIZATION *at* a TIME INTERVAL. [EP/SL] *x has for theme y at t* implies that *x affects y at t*. [EP/IVL] *Has for theme at* mutually implies *is a theme of at*.

Has for consequence at

Properties

[EP/R1 & R2 & R3] A PERDURANT *has for consequence* a PARTICULAR *at* a TIME INTERVAL. [EP/SL] *x has for consequence y at t* implies that *x affects y at t*. [EP/IVL] *Has for consequence at* mutually implies *is a consequence of at*.

Has for result at

Properties

[EP/R1 & R2 & R3] An ACTION *has for result* a PARTICULAR *at* a TIME INTERVAL. [EP/SL] *x has for result y at t* implies that *x has for consequence y at t*. [EP/IVL] *Has for result at* mutually implies *is a result of at*.

Has for instrument at

Properties

[EP/R1 & R2 & R3] A PERDURANT *has for instrument* a PARTICULAR *at* a TIME INTERVAL. [EP/SL] *x has for instrument y at t* implies that *x has for participant y at t*. [EP/IVL] *Has for instrument at* mutually implies *is an instrument of at*.

// Other relations

Has for owner

Properties

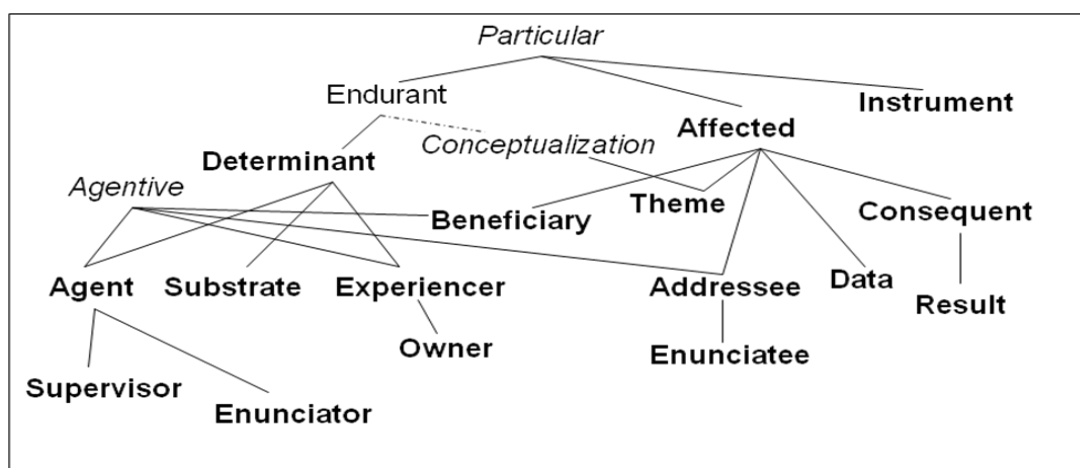
[EP/DR & RR] An ENDURANT *has for owner* an OWNER. [EP/NMC] *x has for owner y* iff there exist a OWNING *z* and a TIME INTERVAL *t* such that *x is affected by z at t* and *z is borne by y at t*. [EP/IVL] *Has for owner* mutually implies *is owner of*.

Is owner of

Properties

[EP/DR & RR] An OWNER *is owner of* an ENDURANT. [EP/ER] *x is owner of y* iff there exist a OWNING *z* and a TIME INTERVAL *t* such that *x bears z at t* and *z affects y at t*. [EP/IVL] *Is owner of* mutually implies *has for owner*.

// Concepts



Determinant

Meta-properties

DETERMINANT is RIGID (+**R**). DETERMINANT is NOT CARRYING AN IDENTITY CRITERION (-**I**). DETERMINANT is NOT CARRYING A COMMON UNITY CRITERION (-**U**). DETERMINANT is EXTERNALLY-DEPENDENT (+**D**).

Properties

[EP/SLD] A DETERMINANT is an ENDURANT which *controls* a PERDURANT *at* a TIME INTERVAL.

Agent

Meta-properties

AGENT is RIGID (+**R**). AGENT is NOT CARRYING AN IDENTITY CRITERION (-**I**). AGENT is NOT CARRYING A COMMON UNITY CRITERION (-**U**). AGENT is EXTERNALLY-DEPENDENT (+**D**).

Properties

[EP/SLD] An AGENT is a DETERMINANT which *is agent of* an EVENT or a PROCESS *at* a TIME INTERVAL. [EP/SL] Every AGENT is an AGENTIVE.

Supervisor

Meta-properties

SUPERVISOR is RIGID (+**R**). SUPERVISOR is NOT CARRYING AN IDENTITY CRITERION (-**I**). SUPERVISOR is NOT CARRYING A COMMON UNITY CRITERION (-**U**). SUPERVISOR is EXTERNALLY-DEPENDENT (+**D**).

Properties

[EP/SLD] A SUPERVISOR is an AGENT which *supervises* an EVENT or a PROCESS *at* a TIME INTERVAL.

Enunciator

Meta-properties

ENUNCIATOR is RIGID (+**R**). ENUNCIATOR is NOT CARRYING AN IDENTITY CRITERION (-**I**). ENUNCIATOR is NOT CARRYING A COMMON UNITY CRITERION (-**U**). ENUNCIATOR is EXTERNALLY-DEPENDENT (+**D**).

Properties

[EP/SLD] An ENUNCIATOR is an AGENT which *is agent of* a DISCOURSE ACT *at* a TIME INTERVAL.

Substrate

Meta-properties

SUBSTRATE is RIGID (+**R**). SUBSTRATE is NOT CARRYING AN IDENTITY CRITERION (-**I**). SUBSTRATE is NOT CARRYING A COMMON UNITY CRITERION (-**U**). SUBSTRATE is EXTERNALLY-DEPENDENT (+**D**).

Properties

[EP/SLD] A SUBSTRATE is a DETERMINANT which *is substrate of* an EVENT or a PROCESS *at* a TIME INTERVAL.

Experiencer

Meta-properties

EXPERIENCER is RIGID (+**R**). EXPERIENCER is NOT CARRYING AN IDENTITY CRITERION (-**I**). EXPERIENCER is NOT CARRYING A COMMON UNITY CRITERION (-**U**). EXPERIENCER is EXTERNALLY-DEPENDENT (+**D**).

Properties

[EP/SLD] An EXPERIENCER is a DETERMINANT which *bears* a STATE *at* a TIME INTERVAL. [EP/SL] Every EXPERIENCER is an AGENTIVE.

Owner

Meta-properties

OWNER is RIGID (+**R**). OWNER is NOT CARRYING AN IDENTITY CRITERION (-**I**). OWNER is NOT CARRYING A COMMON UNITY CRITERION (-**U**). OWNER is EXTERNALLY-DEPENDENT (+**D**).

Properties

[EP/SLD] An OWNER is an EXPERIENCER which *bears* a OWNING *at* a TIME INTERVAL.

Affected

Meta-properties

AFFECTED is RIGID (+**R**). AFFECTED is NOT CARRYING AN IDENTITY CRITERION (-**I**). AFFECTED is NOT CARRYING A COMMON UNITY CRITERION (-**U**). AFFECTED is EXTERNALLY-DEPENDENT (+**D**).

Properties

[EP/SLD] An AFFECTED is a PARTICULAR which *is affected by* a PERDURANT *at* a TIME INTERVAL.

Addressee

Meta-properties

ADDRESSEE is RIGID (+**R**). ADDRESSEE is NOT CARRYING AN IDENTITY CRITERION (-**I**). ADDRESSEE is NOT CARRYING A COMMON UNITY CRITERION (-**U**). ADDRESSEE is EXTERNALLY-DEPENDENT (+**D**).

Properties

[EP/SLD] An ADDRESSEE is an AFFECTED which *is an addressee of* a PERDURANT *at* a TIME INTERVAL. [EP/SL] Every ADDRESSEE is an AGENTIVE.

Enunciatee

Meta-properties

ENUNCIATEE is RIGID (+**R**). ENUNCIATEE is NOT CARRYING AN IDENTITY CRITERION (-**I**). ENUNCIATEE is NOT CARRYING A COMMON UNITY CRITERION (-**U**). ENUNCIATEE is EXTERNALLY-DEPENDENT (+**D**).

Properties

[EP/SLD] An ENUNCIATEE is an ADDRESSEE which *is addressee of* a DISCOURSE ACT *at* a TIME INTERVAL.

Beneficiary

Meta-properties

BENEFICIARY is RIGID (+**R**). BENEFICIARY is NOT CARRYING AN IDENTITY CRITERION (-**I**). BENEFICIARY is NOT CARRYING A COMMON UNITY CRITERION (-**U**). BENEFICIARY is EXTERNALLY-DEPENDENT (+**D**).

Properties

[EP/SLD] A BENEFICIARY is an AFFECTED which *is a beneficiary of* an ACTION at a TIME INTERVAL. [EP/SL] Every BENEFICIARY is an AGENTIVE.

Data

Meta-properties

DATA is RIGID (+**R**). DATA is NOT CARRYING AN IDENTITY CRITERION (-**I**). DATA is NOT CARRYING A COMMON UNITY CRITERION (-**U**). DATA is EXTERNALLY-DEPENDENT (+**D**).

Properties

[EP/SLD] A DATA is an AFFECTED which *is a data of* an ACTION at a TIME INTERVAL.

Consequent

Meta-properties

CONSEQUENT is RIGID (+**R**). CONSEQUENT is NOT CARRYING AN IDENTITY CRITERION (-**I**). CONSEQUENT is NOT CARRYING A COMMON UNITY CRITERION (-**U**). CONSEQUENT is EXTERNALLY-DEPENDENT (+**D**).

Properties

[EP/SLD] A CONSEQUENT is an AFFECTED which *is a consequent of* a PERDURANT at a TIME INTERVAL.

Result

Meta-properties

RESULT is RIGID (+**R**). RESULT is NOT CARRYING AN IDENTITY CRITERION (-**I**). RESULT is NOT CARRYING A COMMON UNITY CRITERION (-**U**). RESULT is EXTERNALLY-DEPENDENT (+**D**).

Properties

[EP/SLD] A RESULT is a CONSEQUENT which *is a result of* an ACTION at a TIME INTERVAL. [EP/SL] Every RESULT *has for author* an AUTHOR.

Theme

Meta-properties

THEME is RIGID (+**R**). THEME is NOT CARRYING AN IDENTITY CRITERION (-**I**). THEME is NOT CARRYING A COMMON UNITY CRITERION (-**U**). THEME is EXTERNALLY-DEPENDENT (+**D**).

Properties

[EP/SLD] A THEME is an AFFECTED which *is a theme of* an ACTION at a TIME INTERVAL. [EP/SL] Every THEME is a CONCEPTUALIZATION.

Instrument

Meta-properties

INSTRUMENT is RIGID (+**R**). INSTRUMENT is NOT CARRYING AN IDENTITY CRITERION (-**I**). INSTRUMENT is NOT CARRYING A COMMON UNITY CRITERION (-**U**). INSTRUMENT is EXTERNALLY-DEPENDENT (+**D**).

Properties

[EP/SLD] An INSTRUMENT is a PARTICULAR which *is an instrument of* a PERDURANT at a TIME INTERVAL.