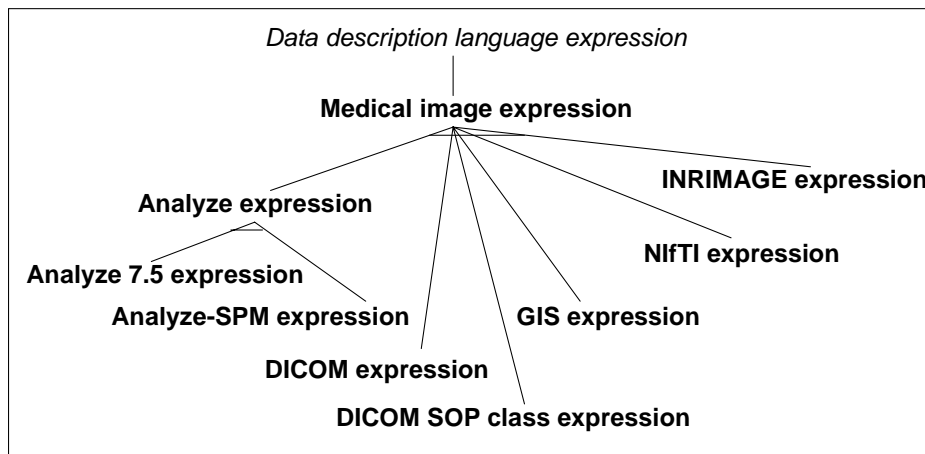


Medical image expression-OS

// Metadata

Name	Medical image expression-OS
Keywords	Analyze expression, DICOM expression, GIS expression, NIfTI expression, INRIMAGE expression, DICOM expression
Creation date	October 1 st , 2008
Has contributor	Michel Dojat, Bernard Gibaud, Gilles Kassel, Lynda Temal
Used ontology engineering methodology	OntoSpec
Is of type	Domain 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/Medical_Image_Expression-OS.pdf
Version	1.0
Number of concepts (classes)	9
Number of relations (properties)	0

// Concepts



MEDICAL image expression

Meta-properties

MEDICAL IMAGE EXPRESSION is RIGID (+**R**). MEDICAL IMAGE EXPRESSION is EXTERNALLY-DEPENDENT (+**D**). ANALYZE EXPRESSION, DICOM EXPRESSION, DICOM SOP CLASS EXPRESSION, GIS EXPRESSION, NIFTI EXPRESSION, and

INRIMAGE EXPRESSION *is a disjunctive sub-division of* MEDICAL IMAGE EXPRESSION.

Properties

[EP/SLD] A MEDICAL IMAGE EXPRESSION is a DATA DESCRIPTION LANGUAGE EXPRESSION which *is a well-formed formula of* a MEDICAL IMAGE FORMAT.

ANALYZE expression

Meta-properties

ANALYZE EXPRESSION is RIGID (+**R**). ANALYZE EXPRESSION is EXTERNALLY-DEPENDENT (+**D**). ANALYZE 7.5 EXPRESSION and ANALYZE-SPM EXPRESSION *is a disjunctive sub-division of* ANALYZE EXPRESSION.

Properties

[EP/SLD] An ANALYZE EXPRESSION is a MEDICAL IMAGE EXPRESSION which *is a well-formed formula of* an ANALYZE FORMAT. [EP/ER] Every ANALYZE EXPRESSION *is realized by* exactly one ANALYZE HEADER FILE *at a* TIME INTERVAL. [EP/ER] Every ANALYZE EXPRESSION *is realized by* exactly one IMG FILE *at a* TIME INTERVAL.

ANALYZE 7.5 expression

Meta-properties

ANALYZE 7.5 EXPRESSION is RIGID (+**R**). ANALYZE 7.5 EXPRESSION is EXTERNALLY-DEPENDENT (+**D**).

Properties

[EP/SLD] An ANALYZE 7.5 EXPRESSION is an ANALYZE EXPRESSION which *is a well-formed formula of* ANALYZE 7.5.

ANALYZE-SPM expression

Meta-properties

ANALYZE-SPM EXPRESSION is RIGID (+**R**). ANALYZE-SPM EXPRESSION is EXTERNALLY-DEPENDENT (+**D**).

Properties

[EP/SLD] An ANALYZE-SPM EXPRESSION is an ANALYZE EXPRESSION which *is a well-formed formula of* ANALYZE-SPM.

DICOM expression

Meta-properties

DICOM EXPRESSION is RIGID (+**R**). DICOM EXPRESSION is EXTERNALLY-DEPENDENT (+**D**).

Properties

[EP/SLD] A DICOM EXPRESSION is a MEDICAL IMAGE EXPRESSION which *is a well-formed formula of* a DICOM FORMAT. [EP/ER] Every DICOM EXPRESSION *is realized by* exactly one DICOM FILE *at a* TIME INTERVAL.

DICOM SOP class expression

Meta-properties

DICOM SOP CLASS EXPRESSION is RIGID (+**R**). DICOM SOP CLASS EXPRESSION is EXTERNALLY-DEPENDENT (+**D**).

Properties

[EP/SLD] A DICOM SOP CLASS EXPRESSION is a MEDICAL IMAGE EXPRESSION which *is a well-formed formula of* a DICOM SOP CLASS.

GIS expression

Meta-properties

GIS EXPRESSION is RIGID (+**R**). GIS EXPRESSION is EXTERNALLY-DEPENDENT (+**D**).

Properties

[EP/SLD] A GIS EXPRESSION is a MEDICAL IMAGE EXPRESSION which *is a well-formed formula of* a GIS FORMAT. [EP/ER] Every GIS EXPRESSION *is realized by* exactly one GIS HEADER FILE *at* a TIME INTERVAL. [EP/ER] Every GIS EXPRESSION *is realized by* exactly one IMA FILE *at* a TIME INTERVAL.

NIfTI expression

Meta-properties

NIFTI EXPRESSION is RIGID (+**R**). NIFTI EXPRESSION is EXTERNALLY-DEPENDENT (+**D**).

Properties

[EP/SLD] A NIFTI EXPRESSION is a MEDICAL IMAGE EXPRESSION which *is a well-formed formula of* a NIFTI FORMAT. [EP/EER] Every NIFTI EXPRESSION *is realized* either *by* exactly one NII FILE or *by* a NIFTI HEADER FILE and an IMG FILE *at* a TIME INTERVAL.

INRIMAGE expression

Meta-properties

INR EXPRESSION is RIGID (+**R**). INR EXPRESSION is EXTERNALLY-DEPENDENT (+**D**).

Properties

[EP/SLD] An INR EXPRESSION is a MEDICAL IMAGE EXPRESSION which *is a well-formed formula of* a INRIMAGE FORMAT. [EP/ER] Every INRIMAGE EXPRESSION *is realized by* exactly one INRIMAGE FILE *at* a TIME INTERVAL.