package geco.fuzzy v3.0 geco.parser.GecoParser + static final String version + void start() + Environment getEnvironment() + ArrayList<String> getErrorList () geco.parser.Environment + public String getVersion () + List<Instruction> getInstructionList () + int getNInstruction () + List<Instruction> getInstructionListIgnoringErrors () + List<String> getErrorList () + boolean hasErrors() + boolean hasNoError() + List<String> getWarningList ()

NB. Evidenziati in azzurro le variazioni rispetto alla versione precedente 2.6

package geco.fuzzy v3.0

abstract geco.model.Instruction

- + static final int UNDEFINED
- + static final int GET INSTRUCTION
- + static final int SET INTERMEDIATE INSTRUCTION
- + static final int SAVE INSTRUCTION
- + static final int SPATIAL_JOIN_INSTRUCTION
- + static final int JOIN INSTRUCTION
- + static final int FILTER INSTRUCTION
- + static final int GROUP INSTRUCTION
- + static final int EXPAND INSTRUCTION
- + static final int MERGE INSTRUCTION
- + static final int INTERSECT INSTRUCTION
- + static final int SUBTRACT INSTRUCTION
- + static final int USEDB INSTRUCTION
- + static final int TRAJECTORY MATCHING INSTRUCTION
- + static final int FUZZY OPERATOR INSTRUCTION
- + static final int JAVASCRIPT FUNCTION INSTRUCTION
- + int getId()
- + int getSeguence()
- + String getInstructionName()
- + String toString ()
- + abstract String toMultilineString ()

geco.model.GetCollection extends Instruction

+ DbCollection collection

geco.model.SetIntermediateAs extends Instruction

DbCollection collection

geco.model.SaveAs extends Instruction

+ DbCollection collection

geco.model.SubtractCollections extends Instruction

- + DbCollection collection1
- DbCollection collection2

geco.model.UseDb extends Instruction

- + final static int DEFAULT
- + final static int SERVER
- + final static int SERVER CONNECTED
- + List<DbName> dbList
- + String server
- + String connectionString
- + int type
- + boolean isDefault ()
- boolean hasServer ()
- + boolean hasConnectionString ()

geco.model.Filter extends Instruction

+ CaseClause caseClause

geco.model.IntersectCollections extends Instruction

- + DbCollection collection1
- DbCollection collection2

geco.model.Group extends Instruction

- + final static int UNDEFINED
- + final static int KEEP_OTHERS
- + final static int DROP_OTHERS
- + List<Partition> partitions
- + int others

geco.model.Expand extends Instruction

- + final static int KEEP OTHERS
- final static int DROP OTHERS
- List<Unpack> unpacks
- int others

geco.model.JoinCollections extends Instruction

- DbCollection collection1
- DbCollection collection2
- CaseClause caseClause
- SetFuzzvSets setFuzzvSets
- boolean hasCaseClause ()
- + boolean hasSetFuzzySets ()

geco.model.TrajectoryMatching extends Instruction

- + final static int UNDEFINED
- final static int KEEP OTHERS
- final static int DROP_OTHERS
- DbCollection collection1
- DbCollection collection2
- List<TrajectoryPartition> partitions
- int others

geco.model.MergeCollections extends Instruction

- + List < DbCollection > collectionList
- String all
- + boolean mergeAll ()

+ final static int GEOMETRY ALL

geco.model.SpatialJoin extends Instruction

- + final static int GEOMETRY UNDEFINED
- + final static int GEOMETRY RIGHT
- + final static int GEOMETRY LEFT
- + final static int GEOMETRY_INTERSECTION
- + DbCollection collection1
- DbCollection collection2
- + SpatialJoinCondition on
- + int geometry
- CaseClause caseClause

geco.model.FuzzyOperator extends Instruction

- + String functionName
- + List<Parameter> parameters
- + Condition preCondition
- + String body

geco.model.JavascriptFunction extends Instruction

- + String fuzzyOperator
- + List<Parameter> parameters
- + Condition preCondition
- + Condition evaluate
- + Range range
- + List<Point> polyline

geco.model.util.Condition

- + static final int UNDEFINED
- static final int NOT_CONDITION
- static final int AND_CONDITION
- static final int OR_CONDITION
- static final int PREDICATE_CONDITION
- Predicate predicate
- toMultilineString (int level)

geco.model.util.ConditionOr extends Condition

List<Condition> conditions

geco.model.util.ConditionAnd extends Condition

List<Condition> conditions

geco.model.util.ConditionNot extends Condition

Condition condition

geco.model.util.LogicalCondition<P>

- + static final int UNDEFINED
- static final int GENERIC_CONDITION
- + static final int NOT CONDITION
- static final int AND_CONDITION
- static final int OR_CONDITION
- static final int SUB CONDITION
- static final int PREDICATE + int type
- P predicate
- LogicalCondition <P> subCondition
- LogicalCondition <P> notCondition
- List<LogicalCondition <P>> andConditions
- $\textit{List} < \textit{LogicalCondition} < \textcolor{red}{\textbf{P>}} > \textit{orConditions}$

geco.model.util.Predicate

- static final int UNDEFINED
- static final int WITH_PREDICATE
- static final int WITHOUT_PREDICATE
- static final int EXPRESSION_PREDICATE
- static final int COMPARISON_PREDICATE
- static final int COMPARE_PREDICATE static final int IFFAILS_PREDICATE
- static final int OVERLAP PREDICATE
- static final int INSIDE_PREDICATE
- static final int HOWMEET PREDICATE
- static final int DIRECTION PREDICATE
- static final int AREA_PREDICATE
- static final int PERIMETER PREDICATE
- static final int WITHIN_PREDICATE
- static final int KNOWN PREDICATE
- static final int UNKNOWN_PREDICATE
- static final String EQ
- static final Strina NEQ
- static final String LT
- static final Strina GT
- static final String LE
- static final String GE
- static final int SIMPLE
- static final int COMPLEX + static final int ARRAY
- + static final int STRING
- static final int NUMBER
- + static final int INTEGER
- + static final int FLOAT
- static final int GEOMETRY WithPredicate withPredicate
- + List<Field> withPredicateList
- + int withPredicateSelector
- String withPredicateSelectorStr
- WithoutPredicate withoutPredicate
- List<Field> withoutPredicateList
- Expression expression1 + Expression expression2
- String comparator
- IfFails ifFails
- Strina predicateName String predicateParameter1
- String predicateParameter2
- List<String> fuzzySets
- List<String> withinFuzzySets
- List<String> knownFuzzySets
- List<String> unknownFuzzySets
- int type
- toMultilineString (int level)

geco.model.util.Expression

- + List<ExpressionTerm> terms
- List<String> operators

geco.model.util.ExpressionTerm

- + List<ExpressionFactor> factors
- List<String> operator

geco.model.util.ExpressionFactor

- static final int UNDEFINED
- boolean hasSetFuzzySets ()
- + static final int SUBCONDITION
- static final int FUNCTION
- static final int ID
- + static final int FIELDNAME
- int type String id
- Condition condition
- Field field
- Value value
- String function
- List<Expression> functionParams

geco.model.util.WithPredicate

- static final int UNDEFINED
- static final int SIMPLE
- + static final int COMPLEX
- static final int ARRAY
- static final int STRING
- + static final int NUMBER static final int INTEGER
- static final int FLOAT
- static final int GEOMETRY
- List<Field> fieldRefs
- int getTypeSelector ()
- String toMultilineString (int level)

geco.model.util.WithoutPredicate

- List<Field> fieldRefs
- String to Multiline String (int level)

geco.model.util.CaseClause

- + static final int UNDEFINED
- + static final int KEEP TYPE
- + static final int DROP TYPE
- + static final String KEEP
- + static final String DROP
- + List<WhereCase> whereList
- + List<FuzzyGenerate> fuzzyGenerateList
- + String others
- + int othersType
- + boolean hasFuzzyGenerate ()
- toMultilineString (int level)

geco.model.util.WhereCase

- + Condition condition
- + GenerateAction generateAction
- + List<FuzzyGenerate> fuzzyGenerates
- + List<AlphaCut> alphaCuts
- + KeepingDroppingFuzzySets keepDropFuzzySets
- + boolean hasGenerateAction ()
- + boolean hasFuzzvGenerate ()
- + boolean hasAlphaCut ()
- + boolean hasKeepDropFuzzySets()
- String toMultilineString (int level)

geco.model.util.GenerateAction

- + static final int UNDEFINED
- + static final int GA COMPLETE
- + static final int GENERATE ACTION COMPLETE
- + static final int ONLY OBJECT STRUCTURE
- + static final int ONLY GEOMETRIC OPTION
- + static final int COUNT OPTION
- + ObjectStructure objectStructure
- + GeometricOption geometricOption
- + Field countOption
- + int getGenerateActionType ()
- + boolean hasObjectStructure ()
- + boolean hasGeometricOption ()
- + boolean hasCount ()
- + boolean isComplete ()
- String toMultilineString (int level)

geco.model.util.ObjectStructure

- List<OutputFieldSpec> outputList
- String toMultilineString(int level)

geco.model.util.Partition

- + Condition whereCondition
- + List<Field> bv
- + Field into
- List<SortField> sortedBy
- boolean dropGroupingFields
- + GenerateAction generate
- + boolean dropGroupingFields
- + boolean hasGenerateClause () boolean hasDropGroupingFields ()
- + boolean isSortedBy ()
- String toMultilineString (int level)

geco.model.util.Unpack

- + Condition where
- + Field array
- + String to
- + GenerateAction generate
- + boolean hasGenerateClause ()
- + toMultilineString (int level)

geco.model.util.GeometricOption

- + static final int UNDEFINED
- + static final int KEEPING
- static final int DROPPING
- static final int POINT
- + static final int AGGREGATE
- + static final int FIELD REF
- + static final int TO POLYLINE
- Field latitude
- + Field longitude
- + Field fieldRef
- + Field aggregate
- + int getType ()
- + String toMultilineString(int level)

geco.model.util.OutputFieldSpec

- + static final int UNDEFINED
- + static final int FIELD REF
- + static final int VALUE FIELD REF
- + static final int VALUE CONSTANT
- + static final int VALUE OBJECT STRUCTURE
- + Field fieldRef
- + ObjectStructure valueObjectStructure
- + Field valueField
- + Value value
- + String id ---- deprecated
- + int getOutputFieldSpecType ()

geco.model.util.SpatialJoinCondition

- + static final int UNDEFINED
- + static final int DISTANCE
- + static final int AREA
- + static final int ORIENTATION
- + static final int INCLUDED
- + static final int INCLUDED LEFT
- + static final int INCLUDED RIGHT
- + static final int MEET
- + static final int INTERSECT
- + int type
- + String unit
- + SetFuzzySets setFuzzySets
- float area
- boolean hasSetFuzzySets ()
- + String from
- + String orientation
- + float delta
- + String side
- + toMultilineString (int level)

geco.model.util.TrajectoryPartition

- + Condition selectionCondition
- List<PartitionMatching> matchings
- toMultilineString (int level)

geco.model.util.PartitionMatching

- + Field matching
- + Field wrt
- String unit
- + double value
- + Condition whereCondition
- Field into
- + Field pathToInput
- double similarity
- + boolean hasWhereCondition ()
- + boolean hasPathToInput ()
- boolean hasSimilarity ()
- toMultilineString (int level)

geco.model.util.DbCollection

- + String db
- + String collection
- + String alias
- + boolean equals (DbCollection dc)
- + boolean hasAlias ()
- + boolean hasDbName ()
- + String getDbCollectionString ()

geco.model.util.Field

- + boolean contains (Field fn)
- boolean isContained (Field fn)

geco.model.util.SortField

- + static final int UNDEFINED
- + static final int ASCENDING
- + static final int DESCENDING + Field field
- + int versus
- String versusStr

geco.model.util.Value

- + static final int INT + static final int FLOAT
- + static final int APEX
- + static final int QUOTED
- + static final int BOOLEAN

- + boolean isQuoted ()

geco.model.util.Parameter

- + String var
- + String type

geco.model.util.DbName

- + String db
- + String alias

- + String value
- + String type
- + boolean isApex () + boolean isFloat ()
- + boolean isInt ()
- boolean isBoolean ()

package geco.fuzzy v3.0

geco.model.fuzzy.AlphaCut

- + String alphacut
- + String on

geco.model.fuzzy.FuzzyGenerate

- + String fuzzySet
- + Condition using
- + String toMultilineString(int level)

geco.model.fuzzy.FuzzyPoint

- + String x
- + String y
- + double getXvalue ()
- + double getYvalue ()

geco.model.fuzzy.FuzzyRange

- + String x1
- + String x2
- + double getX1value ()
- + double getX2value ()

geco.model.fuzzy.FuzzySetReference

- + static final int UNDEFINED
- + static final int FUZZYSET
- + static final int LEFT FUZZYSET
- + static final int RIGHT FUZZYSET
- + static final int HOWMEET
- + static final int INSIDE
- + static final int OVERLAP
- + static final int ALL PARAMETER
- + static final int LEFT PARAMETER
- + static final int RIGHT PARAMETER
- + int type
- + int parameterType
- + String fuzzySet
- + String leftRight
- + String function
- + String parameter
- + String as
- + boolean hasAlias ()
- + boolean hasAs ()

+ static final int UNDEFINED

- + static final int KEEPING
- + static final int DROPPING
- + boolean isDropping ()
- + boolean isKeeping ()

geco.model.fuzzy.lfFails

- + String ifFailsValue
- + LogicalCondition<IffOperator> ifFailsCondition

geco.model.fuzzy.lffOperator

- + String operator
- + List<String> parameters

geco.model.fuzzy.KeepingDroppingFuzzySets

- + static final int UNDEFINED
- + boolean hasSetFuzzySets ()
- + static final int KEEPING
- + static final int DROPPING ALL
- + static final int KEEPING_ALL
- + List<String> fuzzySets
- + int type
- + String typeString