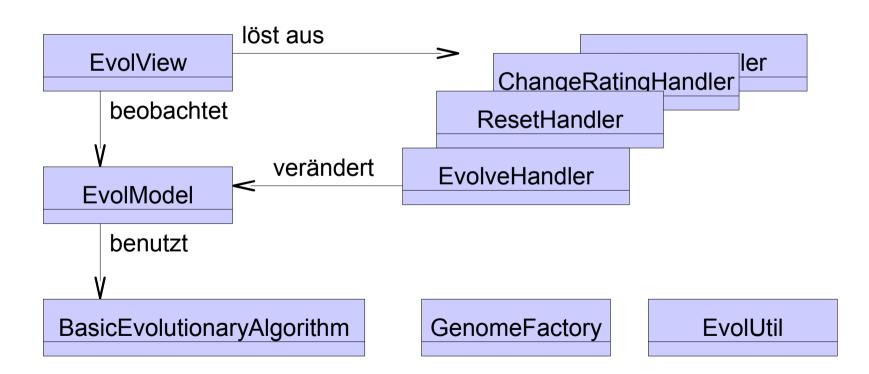
Struktur

EvolPlugin

EvolutionServices

EvolPreferenceInitializer



EvolUtil

dettcauttcstikielertikimlttevolttEvolUtil

applyCurrentIndividual(model : EvolModel) : void

asyncRefreshLayoutView(): void

autoRate(thePopulationIterator: ListIterator<Genome>,theMonitor: IKielerProgressMonitor,theWeightsGenomes: Population): void

createPopulation(editors : Set<lEditorPart>) : Population

getCurrentEditor(): IEditorPart

getCurrentEditPart(editor : IEditorPart) : EditPart

getEditors(): Set<lEditorPart>

getLayoutAlgorithmData(editor: IEditorPart,editPart: EditPart): LayoutAlgorithmData

getLayoutAlgorithmlds(layoutType : String) : List<String>

isCompatibleLayoutAlgorithm(algorithmld : String,typeld : String) : boolean

syncApplyIndividual(individual: Genome,algorithmId: String): void

createPopulation(configs: List<|LayoutConfig>): Population

createPopulation(configs : List<ILayoutConfig>,size : int) : Population

getLayoutConfigs(editors : Set<lEditorPart>) : List<lLayoutConfig>

getPropertyValues(configs: List<ILayoutConfig>,id: String): Set<Object>

qetWantedEditors() : Set<IEditorPart>

<<create>> EvolUtil()

saveOptionsToFile(model : EvolModel,canOverWrite : boolean) : void

GenomeFactory

GenomeFactory

learnableOptions : Set<String>

layoutOptionGeneFactory : IGeneFactory

DEFAULT_LAYOUT_HINT_GENE_MUTATION_PROBABILITY: double

createWeightGenes(metricIds : Set<String>) : Genome

collectLearnableProperties(descriptors : Collection<IPropertyDescriptor>,acceptedProperties : Set<String>) : Set<IPropertyDescriptor>

collectPropertyValues(configs ; List<lLayoutConfig>) ; Map<String, Object>

createLayoutHintGene(algorithmlds : List<String>,defaultEntry : int) : ListItemGene

createLayoutHintGene(algorithmlds: List<String>.defaultAlgorithmld: String): ListItemGene

getPropertyDescriptors(configs : List<ILayoutConfig>) : Map<String, IPropertyDescriptor>

uniformProbability(choicesCount : int) : double

<<create>> GenomeFactory(theLearnableOptions : Set<String>)

createGenome(configs: List<lLayoutConfig>,layoutHintlds: Set<Object>): Genome

createGenes(knownOptionIds: Set<String>,presentIds: List<String>,prob: double,theGeneFactory: IGeneFactory): Genome

getLearnableKnownOptions(algorithmIds : List<String>) : Set<String>

Package alg

<<interface>>
IEvolutionListener

AbstractEvolutionaryAlgorithm

generation : int

isInitialized : boolean

listeners : List<IEvolutionListener>

addListener(listener : IEvolutionListener) : void removeListener(listener : IEvolutionListener) : void

getGeneration(): int

run(): void step(): void

isDone() : boolean initialize() : void

determineFitness(): void

select(): void crossOver(): void mutate(): void survive(): void beforeStep(): void afterStep(): void

BasicEvolutionaryAlgorithm

<<create>> BasicEvolutionaryAlgorithm(thePopulation : Population)

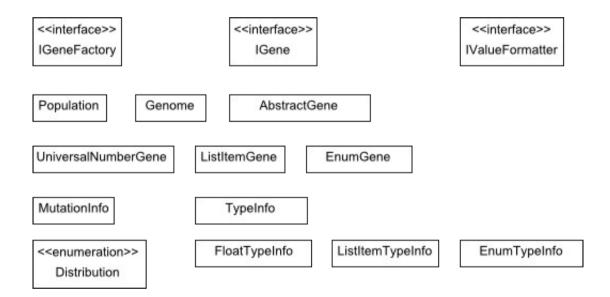
getPopulation(): Population

crossOver(): void

determineFitness(): void

initialize() : void isDone() : boolean mutate() : void select() : void survive() : void

Package genetic



Package handlers

AutoRateAllHandler

execute(event : ExecutionEvent) : Object

ChangeRatingHandler

execute(event : ExecutionEvent) : Object

ResetHandler

execute(event : ExecutionEvent) : Object

InfoHandler

execute(theEvent : ExecutionEvent) : Object

EvolveHandler

PARAM_STEPS_PER_AUTO_RATING: String

PARAM_MAX_STEPS: String STEPS_PER_AUTO_RATING: int

MAX STEPS: int

execute(executionEvent : ExecutionEvent) : Object

isAutoRatingStep(i : int,p : int) : boolean

Package metrics

DimensionsAnalysis

AreaMetric

BendsMetric

NarrownessMetric

EdgeCrossingsMetric

FlatnessMetric

StandaloneUpwardnessMetric

EdgeUniformityMetric

UpwardnessMetric

GRANA_EDGE_COUNT : String

GRANA EDGE DIRECTION COUNT: String

doAnalysis(parentNode: KNode,results: Map<String, Object>,progressMonitor: IKielerProgressMonitor): Object

WeightedAggregation

Package ui

EvolView

modelListener : EvolModelListener

ID: String

WIDE_COLUMN_WIDTH: int NARROW_COLUMN_WIDTH: int tableViewer: SelectorTableViewer

evolModel : EvolModel

<<create>> EvolView()

createPartControl(parent : Composite) : void

getEvolModel(): EvolModel

getTableViewer(): SelectorTableViewer refresh(onlyCurrent: boolean): void

setFocus(): void

PopulationTableEntry

index: int

individual: Genome

getId(): String

getIndividual(): Genome

setIndividual(theIndividual: Genome): void

getIndex() : int setIndex(i : int) : void <<interface>>

IEvolModelListener

afterChange(source : EvolModel,cause : ModelChangeType) : void

PopulationTableLabelProvider

evolModel : EvolModel currentImage : Image defaultImage : Image

<<create>> PopulationTableLabelProvider(theEvolModel : EvolModel)

dispose(): void

getColumnImage(element : Object,columnIndex : int) : Image getColumnText(element : Object,columnIndex : int) : String isLabelProperty(element : Object,property : String) : boolean

PopulationTableContentProvider

dispose(): void

getElements(inputElement : Object) : Object[]

inputChanged(viewer: Viewer,oldInput: Object,newInput: Object): void

ModelChangeType

EvolPreferencePage

miscGroup: Group

useLayoutHint : BooleanFieldEditor

useDifferentTypeLayoutHint : BooleanFieldEditor

NUM_COLUMNS : int TEXT_LIMIT : int

propertyChange(event : PropertyChangeEvent) : void

<<create>> EvolPreferencePage() init(workbench : IWorkbench) : void

createFieldEditors(): void