Web portal specifications

Home page

The home page gives general information about the project, lists the available models, and gives the following actions:

- user authentification
- user account creation

The user can either

- upload the ViNO he has created

or

- visit the ViNO database.

Kernel upload pages

Kernel metadata upload page

This page allows the user

- to upload the file containing the metadata of the viability problem the ViNO he has created deals with
- or to get help in building this metadata file.

Metadata specifications page

This page helps the user to build the metadata file specifications for the ViNO he wants to upload.

The user can browse the database and if his ViNO shares metadata with ViNOs already stored in the database, the corresponging tag values are automatically specified. Otherwise tags which values have not been specified yet are listed with a comment on the information these values have to correspond to and on the required syntax.

Kernel data upload page

When the metadata file upload has succeeeded, this page allows the user to upload the original file provided by the kernel calculation software.

Kernel database pages

Kernel database home page

This page displays the list of the scientific domains (categories) the ViNO's of the database belong to (ecology, economics, robotics, ...). A particular category will gather academic examples.

Available action: go to a detailed page for a particular category.

Category page

This page displays the list of the viability problems for which there exists at least one ViNO in the database (for example in the ecology category, the viability problem of lake eutrophication).

Available action: go to a detailed page for a particular viability problem.

Viability problem page

This page displays the data necessary to describe the viability problem under consideration. These data correspond to the metadata entitled "viablity problem description" of the hdf5 format).

This page also displays a two inputs table which gathers links with the ViNOs of the database corresponding to the viability problem under consideration. One input is the parameter values (which correspond to the metadata entitled "parameters of the dynamics, constraints and targets" of the hdf5 format); the other input is the software used to calculate the ViNO.

Available actions:

- go to a detailed page for a particular viability problem.
- choosing two ViNOs in the table, the user can compare them that is:
    - Visualize the intersection, the substractions of the sets described by the two ViNOs;
    - List and count the points in the intersections and in the substractions of the two ViNOs.

(Note to come back later: possibility of comparing two ViNOs which do not correspond to the same viability problem)

ViNO or Kernel page

This page recalls the data necessary to describe the viability problem under consideration (metadata entitled "viablity problem description" of the hdf5 format), the parameter values (metadata entitled "parameters of the dynamics, constraints and targets" of the hdf5 format), information on the software used to calculate the ViNO under consideration (metadata entitled "kernel approximation algorithm" of the hdf5 format), format description of the ViNO under consideration (metadata entitled "format description" of the hdf5 format) and information on the author of this ViNO and on its creation (metadata entitled "results data metadata" of the hdf5 format).

Three actions are available on this page :

- Visualize: as its name suggests, allows to visualize inside the browser a 2 or 3 dimensional section of the ViNO under consideration
- Test (has to be specified): test how the ViNO can allow to build viable evolutions …
- Viable evolution simulator: allows to build viable evolutions from the ViNO according to given starting points.

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