

# I-X – Intelligent Technology for Planning and Design

An open architecture for the creation of intelligent systems for synthesis tasks (such as planning, design and configuration) based on the handling of "issues" and the management or maintenance of the constraints describing the product of the process.

1. Representation - a core notion of a synthesis process and the product(s) of such processes as a set of nodes making up the process or product, along with constraints on the relationship between those nodes, a set of outstanding issues, and annotations related to these - <I-N-C-A> - Issues, Nodes, Constraints and Annotations.
2. Reasoning - the provision of reusable reasoning and constraint or model management capabilities.
3. User Interfaces - to understand user roles in performing collaborative activities and to provide generic modules which present the state of the processes they are engaged in, their relationships to others and the status of the artefacts/products they are working with.
4. Applications - work in various application sectors which will seek to create generic approaches (I-Tools) for the various types of Task in which users may engage.

The screenshot displays the JPRC I-X software interface. At the top, there is a menu bar with 'File', 'New', 'Options', 'Tools', and 'Help'. Below this is a window titled 'SOF-Entry-Via-Fout-Springs-2.2' containing a table of 'Issues'. The table has columns for 'Description', 'Annotations', 'Priority', and 'Action'. Below the issues table is an 'Activities' table with similar columns. In the foreground, there are three overlapping windows: 1. 'JPRC I-X I-Plan Tool' showing a 'File' window with planning statistics: 'Steps taken = 25', 'Alternatives posted = 24', 'Alternatives picked = 5', 'Alternatives remaining = 25', 'Number of nodes = 7', and 'Longest node-end path length = 11'. It has buttons for 'Plan', 'Replan', and 'Check Plan'. 2. 'JPRC I-X Map Tool' showing a topographic map with various locations marked. 3. 'Joint Personnel Recovery Center Messenger' showing a 'File' window with a transcript of messages and a 'Compose Message' window with radio buttons for 'Issue', 'Activity', 'Constraint', 'Report', and 'Message', and dropdown menus for 'Report Type' and 'Recipient'.

