Analysis of the Accepted Publications. Some features are marked as [Y]es, [N]o or [–] for inconclusive.

Study Identification and Characterization Interaction types by IV Technique(s) Application and Solution Techn. Appl.

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Reference Identification | IV Method Applied | Displayed Data Elements by IV Method |  | OF | Constr. | Optimiz. Techn. | Manual Solution | Select Area |  | Applic. | Method(s) Used to Solve the Ed-TTP |
| Piechowiak and Kolski (2004) | 2D-table and time chart. | timetable, resources x time. |  | N | Y | N | Y | N |  | Y | Manual with constraint-based rea- |
|  |  |  |  |  |  |  |  |  |  |  | soning. |
| Thomas et al. (2008) | Oriented cluster graph | classes and students enrolled. |  | – | Y | N | Y | N |  | N | Manual or by any automatic sche- |
|  | drawing. |  |  |  |  |  |  |  |  |  | duler. |
| Thomas et al. (2009b) | Directed graph drawing, | pre-processing data (raw input |  | N | N | N | N | Y |  | Y | There is no attempt to solve the pro- |
|  | histogram, daisy chart, | data). |  |  |  |  |  |  |  |  | blem, just processing/visualizing |
|  | tree view |  |  |  |  |  |  |  |  |  | raw input data. |
| Thomas et al. (2009a) | 2D-table, oriented clus- | timetable (complete) and pre- |  | N | Y | N | N | Y |  | Y | Constraint Satisfaction Program. |
|  | ter graph drawing, histo- | processing data (raw input data). |  |  |  |  |  |  |  |  |  |
|  | gram and tree represen- |  |  |  |  |  |  |  |  |  |  |
|  | tation |  |  |  |  |  |  |  |  |  |  |
| Thomas et al. (2010b) | 2D-table, graph drawing | timetable (complete), constraints |  | – | Y | N | Y | Y |  | Y | Constraint Satisfaction Program (in |
|  | (2D, 3D). | and conflicts. |  |  |  |  |  |  |  |  | a constraints network, with back- |
|  |  |  |  |  |  |  |  |  |  |  | tracking) with user collaboration. |
| Thomas et al. (2010c) | 2D-table, graph drawing | timetable (complete), constraints |  | – | Y | N | Y | Y |  | Y | Constraint Satisfaction Program (in |
|  | (2D, 3D). | and conflicts. |  |  |  |  |  |  |  |  | a constraints network) with user |
|  |  |  |  |  |  |  |  |  |  |  | collaboration. |
| Thomas et al. (2010a) | 2D-table, graph drawing, | timetable (complete), constraints, |  | N | Y | N | Y | Y |  | Y | Visual analysis heuristics and evo- |
|  | tree representation | conflicts. |  |  |  |  |  |  |  |  | lutionary algorithms. |
| Abdelraouf et al. (2011) | Undirected graph dra- | timetable with day/time, graphs and |  | N | Y | N | Y | N |  | Y | Constraint satisfaction problem sol- |
|  | wing (representing peop- | text |  |  |  |  |  |  |  |  | ving. |
|  | les, courses, ...) |  |  |  |  |  |  |  |  |  |  |
| Thomas et al. (2011) | Parallel coordinates (for | timetable (complete). |  | N | N | N | N | Y |  | Y | There is no resolution of the pro- |
|  | uni/multi dimensional |  |  |  |  |  |  |  |  |  | blem, just processing raw data. |
|  | variables). |  |  |  |  |  |  |  |  |  |  |
| Thomas et al. (2012) | 2D-table, graph drawing | timetable (complete), constraints |  | – | Y | – | Y | – |  | Y | Manual and user-driven problem |
|  | (2D, 3D), parallel coor- | and conflicts. |  |  |  |  |  |  |  |  | solving environment, with clashes |
|  | dinates. |  |  |  |  |  |  |  |  |  | reconciliation (AI Techniques). |