

CVDI YEAR 7 – IP Disclosure Information Sheet

PROJECT INFORMATION	
Project ID:	7a.027.SBU
Project Title:	The Intelligent Dashboard
Project Team:	Darius Coelho, Bhavya Ghai, Arjun Krishna, Klaus Mueller (Stony Brook University) Stephen Greenspan, Maria Velez-Rojas (CA Technologies) Brian Foose (Smith Glaxo Kline)

IP Description <i>(include language/technologies)</i> 25-150 words each	Key Concepts <i>(provide concise description of what each PI does)</i> 10 – 50 words each
Automatically finds interesting patterns in multivariate data and ranks them according to a human-centric interestingness score	<ol style="list-style-type: none"> 1. Automatic ranking of patterns in multivariate data 2. Interestingness score relevant to human cognition and perception
Automatically extracts analytic relationships between analytical tasks and data attributes from domain specific document corpora. Relationships are then ranked based on their strength.	<ol style="list-style-type: none"> 1. Automatic identification of analytical tasks for attributes in multivariate data 2. Ranks tasks based on relevance in the data domain
Automatically assigns the best fitting visualization to a data pattern, given a user’s organizational role, task, clearance, visual literacy, and data exploration tasks, such as exploration, prediction, monitoring, etc.	<ol style="list-style-type: none"> 1. Automatic determination of best base visualization for a given data pattern 2. Automatic determination of best base visualization flavor for a given data pattern 3. Applies multiple organization criteria such as user’s organizational role, task, and clearance 4. Applies multiple personal criteria such as visual literacy data and preferences
Automatically assembles these ranked best fitting visualizations into a small, optimal, and consistent ensemble for integration into an informative dashboard	<ol style="list-style-type: none"> 1. Automatic assembly of visualizations into a small and consistent ensemble 2. Optimization of the ensemble’s size and magnitude based on the conveyed information 3. Automatic integration and organization of this ensemble into an informative dashboard