

# Umbrella Concerns

U1 Program Comprehension

U2 Performance Analysis

U3 Communication

## Goals

G1 Overview of Execution

G2 Relate Code

G3 Understand Timing Information

G4 Understand Runtime Decisions

G5 Understand Utilization

G6 Export / Save

**G7 Manage Datasets**

## Sub-Goals

G2.1 Find line of code related to primitive

G2.2 Find primitives related to line of code

**G2.3 Find primitive related to interval**

**G2.4 Find intervals related to primitive**

**G2.5 Find line of code related to interval**

**G2.6 Find intervals related to line of code**

G3.1 Find hot spots

G3.2 Find hot paths

G3.3 Find timing anomalies

G3.4 Compare timing across runs

**CC.1 Correlate intervals with time**

**CC.2 Correlate resource use with time**

**CC.3 Correlate primitive use with time**

**G3.5 Analyze interval distribution**

**G3.6 Find extreme intervals**

**G5.1 Correlate intervals with resource use**

**G5.2 Correlate resource use with resource use**

## Tasks

*Abstract / elaborate*

Analyze attributes

Compare

**Connect**

**Encode**

**Explore**

**Filter**

Find subsets

Find substructures

Follow dependencies

Overview

**Reconfigure**

## Frameworks

Lee *et al.*

**Yi *et al.***