Part Three

Property-Based Software Engineering Measurement

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IEEE TOSE Jan 96

Cohesion

- PC1 – nonnegativity and normalization
- PC2 – null value
- PC3 – monotonicity
- PC4 – cohesive modules

Figure 9.6 Directed graph showing all the dependencies
**Coupling**

- PC1 – nonnegativity
- PC2 – Null value
- PC3 – monotonicity
- PC4 – Merging of modules
- PC5 – Disjoint Module Additivity

**Coupling examples**

**Modeling Software Measurement Data**

Kitchenham, Hughes, and Linkman
IEEE TOSE Sep 2001

**Comments on this paper**

**Why model soft meas data?**

**What is metadata?**
What is a restricted ordinal scale?

What is the value of E-R model

- What is the generic domain?
- What is the development model domain?
- What is the metadata?

Coming Attractions – part 1

- Next week (no class Thursday)
  - Tues – Mendonca “Validation of an …
  - IS2 – properties
  - Wed – Offen “Establishing Software …
- Exam July 9th
  - Tasks - Scales, frameworks, properties,
  - Questions - data modeling, measurement programs, AF/GQM,

Coming Attractions – part 2

- Review of article
  - Due 7/23 – article must be unique
  - Submit copy of article by July 9 (send email of article)
- Proposed measure
  - Due 7/16 – measure must be unique
  - Submit 1 page on proposed measure by July 3rd