Feature Location in COBOL Mainframe Systems
an Experience Report

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in vitro
in vivo
“Replication is not supported, industrial cases are rare [...]”
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“[...] In order to help the discipline mature, we think that more empirical evaluation is needed.”
features ←-----→ code units
features ←------→ code units

invoked by

execute

scenarios

Locating Features in Source Code, T. Eisenbarth and R. Koschke and D. Simon
Locating Features in Source Code, T. Eisenbarth and R. Koschke and D. Simon
instrumentation
isolation
no operator
granularity
✓ instrumentation
✓ isolation
no operator
granularity
✓ instrumentation
✓ isolation
✓ no operator

granularity
✓ instrumentation
✓ isolation
✓ no operator
✓ granularity
brownfield
DEVELOPMENT

ACCEPTANCE

PRODUCTION

promotion
data quality

DEVELOPMENT

ACCEPTANCE

PRODUCTION

promotion
- instrumentation
- isolation
- no operator
- granularity

- PRODUCTION
- ACCEPTANCE
- DEVELOPMENT

- promotion
- data quality
- flexibility
front-end
transaction manager
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<th>CRPII/2</th>
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instrumentation
isolation
no operator
granularity
✗ instrumentation

隔绝
无操作员
粒度
- instrumentation
- isolation
- no operator
- granularity
✗ instrumentation
✗ isolation
✗ no operator
granularity
✗ instrumentation
✗ isolation
✗ no operator
✗ granularity
Thank you