ACM First International Workshop on

Data-intensive Software Management and Mining (DSMM 2009)

Co-located with CIKM 2009

November 6th, 2009 Hongkong, China



Organization

Co-organizers

- Audris Mockus (Avaya Labs, USA)
- Seung-won Hwang (POSTECH, Korea)
- Sunghun Kim (HKUST, China)
- Keynote speaker
 - Brendan Murphy (MSR, USA)
- Program Committee
 - Sebastian Michel, EJ Jung, Joachim Selke, Bin He, Chengkai Li, Ahmed Hassan, Shay Artzi, Thomas Zimmermann, Yann-Gael Gueheneuc, Miryung Kim, Lingxiao Jiang, Martin Theobald

Call For Papers

- Looking for any SE/PL research using DATA
- 5-page (or less) by July 20, Monday
- ACM Paper(s) with Hong Kong and HKUST visit!



More Information



DSMM 2009

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DSMM 2009

2 Apr 2009 ... The goal of **DSMM 2009** is to bring DM/DB/SE communities together to initiate the synergetic collaboration and strengthen the ties. ... ids.postech.ac.kr/dsmm2009/ - Cached - Similar

DSMM 2009

Important Dates. Submissions. Monday, July 20, **2009** by 23:59:59 Apia time. Author notification. Monday, August 10, **2009**. Camera-ready copy ... ids.postech.ac.kr/dsmm2009/important_dates.php - <u>Cached</u> - <u>Similar</u> More results from ids.postech.ac.kr »

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reper Microsoft PowerPoint - Knop et al DSMM XIa trial ASCO 2009 final pot

OCAT: Object Capturing based Automated Testing

Sunghun Kim <<u>hunkim@ust.hk</u>> HKUST with Hojun Jaygarl (ISU) and Tao Xie (NCSU)

Automated Testing

- Useful in practice
- Evaluated by *PIE* [TSE92]
- Current state of the art covers 20~40% paths
- Creating valid objects is challenging

Invalid Objects

public DSAKeyValue(Document doc, Key key) throws IllegalArgumentException {

```
super(doc);
```

XMLUtils.addReturnToElement(this._constructionElement);

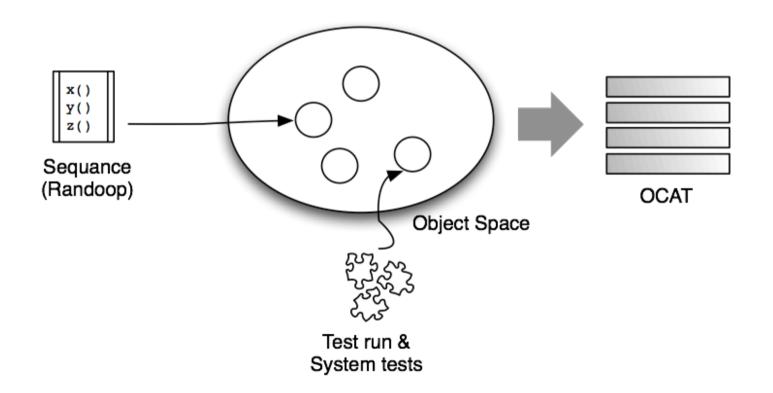
Generating Objects Randoop and SMOOT

- Automated testing techniques
- Generating valid objects from
 - Randoop: feedback based method sequences [ICSE 07, ISSTA 08]
 - SMOOT: code repertories [ESEC/FSE 09]

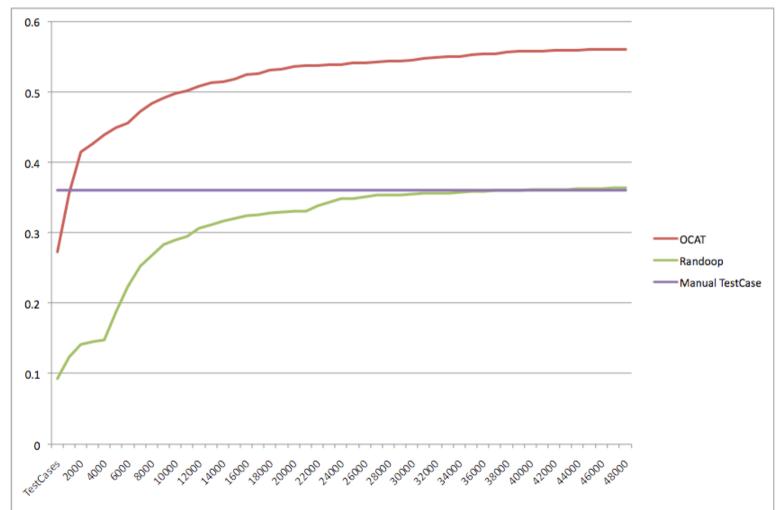
Limitations

- Statically identifying sequences
- Need to execute code to get objects
- Cannot capture environments
 - I/O, user inputs, etc

OCAT Approach







Future Work

- Combine OCAT with SMOOT
- Mutate objects based on path constrains
- Looking for collaborators