RETRUS





The 1st International Workshop on Reverse Engineering To Requirements

Collocated with WICSA/WCRE'05

At Pittsburgh, PA November 7, 2005

An intersection of interests

- Engineering Research communities
 - Software Engineering community
 - 27 annual international conferences
 - Requirements Engineering community
 - 13 annual international conferences
 - Reverse Engineering community
 - 12 annual international conferences
- Industrial community
 - Highly involved

An intersection of authorships

The following statistics are based on DBLP retrieved on November 2, 2005 using XSLT scripts.

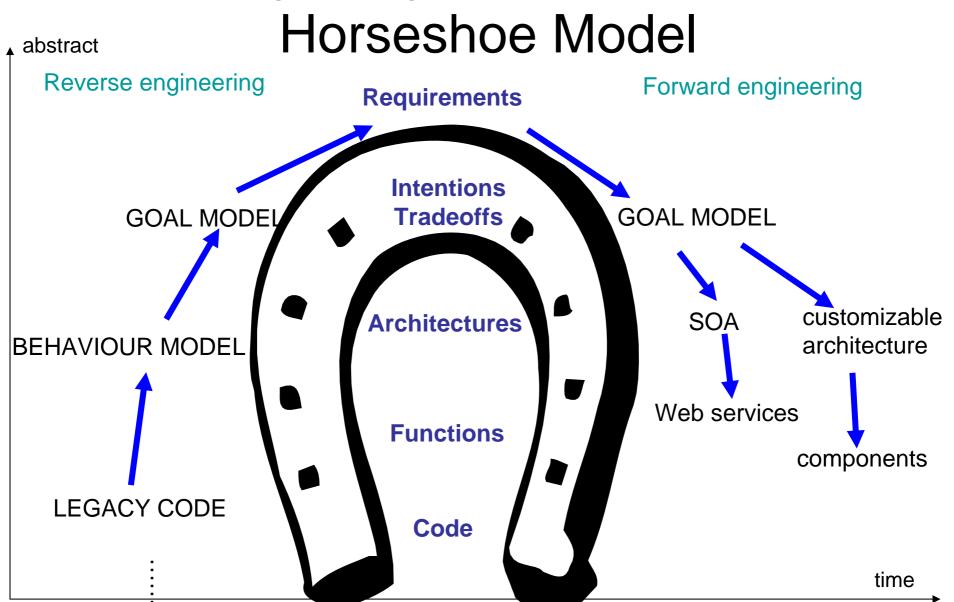
- 1966 ICSE research papers
 - 2921 unique authors (22 Victor R. Basili, 21 Barry W. Boehm, ...)
- 378 RE research papers
 - 662 unique authors (12 Bashar Nuseibeh, 8 Michael Jackson, ...)
 - 133 of them also has ICSE papers (=20.0% of |RE|)
- 344 WCRE research papers
 - 491 unique authors (15 Richard C. Holt, 13 Kostas Kontogiannis, ...)
 - 102 of them also has ICSE papers (=20.0% of |WCRE|)
- Intersection of these authors
 - 11 unique authors (amounts to **2.2%** of WCRE and **1.6%** of RE authors)

		WCRE	RE	ICSE	RETR-PC
_	John Mylopoulos	2	7+2	5	Υ
_	Julio Cesar Sampaio do Prado Leite	2	7+1	2	Υ
_	Betty H. C. Cheng	2	5+1	4	N
_	Colin Potts	1	8	7	N
_	Margaret-Anne D. Storey	1	5	4	N
_	Harald Gall	1	5	3	N
_	Wojtek Kozaczynski	1	1	6	N
_	Mehdi Jazayeri	1	1	3	N
_	Stan Jarzabek	1	1	2	Υ
_	Roland Mittermeir	1	1	1	N
_	Eleftherios Koutsofios	1	1	0	N

For a given author in the intersection, |WCRE| <= |RE|

- Relatively, we want more people in the WCRE community to contribute to RE
 - Mike Godfrey

Put into reengineering perspective



Missions for RETR: bridge the gap

- Aim WCRE higher:
 Reverse engineering to requirements, not
 just architectures and designs
- Ground RE deeper:
 Requirements to be retrieved back and forth with implementations
- Reveal new potentials:
 Autonomic systems may combine both

Workshop Schedule

8:30	Opening and Introduce ourselves
9:00	Invited talk: The Challenge to Recover 15 Years of "Why" Behind a Product Design by Kevin Dunipace
9:30	Invited talk: Learning from Past Trial and Error: Some History of Reverse Engineering to Requirements by Elliot Chikofsky
10:00	Presentation: <u>Automatic Extraction of Abstract-Object-State Machines Based on Branch</u> <u>Coverage</u> by Hai Yuan & Tao Xie
10:45	Presentation: <u>Extracting Business Policy and Business Data from the Three-Tier</u> <u>Architecture System</u> by Maokeng Hung & Ying Zou
11:30	Panel discussions on RETR from legacy software design
12:00	Lunch break
13:00	Break, you may attend Grady Booch's keynote speech at WICSA
14:30	Invited talk Autonomic Computing: Now You See It, Now You Don't by Hausi Muller
15:00	Invited talk by Kostas Kontogiannis and Ladan Tahvildari
15:30	Presentation: Requirements-Driven Configuration of Software Systems by Yijun Yu, Alexei Lapouchnian, Sotirios Liaskos & John Mylopoulos
16:00	Break
16:30	Presentation: <u>Towards a Framework to Incorporate NFRs into UML Models</u> by Sabrina Anjum Tonu & Ladan Tahvildari
17:00	Panel discussion on RETR for autonomic systems
17:30	Wrap up & conclusions on lessons learnt, next steps
18:00	End of the workshop