Successful empirical research in Software Testing with industry

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http://www.pros.upv.es/fittest/

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Introduction

- To facilitate the **transference of the research results** to **industrial applications**
Empirical software engineering

- To facilitate the **transference of the research results** to industrial applications

Most empirical research methods
- Experiment
- Case Study
- Survey

**Limitations**
- Lack of realism
- Generalizability of the results.

Introduction

- Technology transfer
- Collaborative research
## Panel members

<table>
<thead>
<tr>
<th>Industry</th>
<th>Academy</th>
</tr>
</thead>
</table>
| 1) Ricardo Baeza Yates, Yahoo | 1) Maria Jose Scalona  
*Universidad de Sevilla*         |
| 2) Ywan van der Kleijn, Encamina | 2) Tanja Vos  
*Universidad Politecnica de Valencia* |
# Questions

<table>
<thead>
<tr>
<th>Round</th>
<th>Industrial perspective</th>
<th>Academic perspective</th>
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</thead>
<tbody>
<tr>
<td>1.</td>
<td>What are the current challenges you are facing during your current software testing processes? How are you searching for ways to overcome these challenges?</td>
<td>Does software testing research address the real issues arising in practice? (If yes, what are these real issues. If no, why not?)</td>
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<td>2.</td>
<td>What obstacles did you perceive to adopt any software testing research results into practice?</td>
<td>What obstacles did you encounter when evaluate testing tools?</td>
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<tr>
<td>3.</td>
<td>What did you do to overcome these obstacles? And what do you think academia should do to overcome these obstacles?</td>
<td>What did you do to overcome these obstacles? And what do you think industry should do to overcome these obstacles?</td>
</tr>
<tr>
<td>4.</td>
<td>How could the testing practitioners reach the software testing research community?</td>
<td>How could the software testing research community reach testing practitioners?</td>
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Instructions

• For each round:
  ▫ Panelists respond formulated questions -> 3 minutes
  ▫ Audience will be able to formulate questions -> 5 minutes

• Fifth round - Conclusions
  ▫ For each panelist -> 2 minutes