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http://paris.utdallas.edu/iwpd14
Panelists

- Eric Wong (University of Texas at Dallas)
- Franz Wotawa (Graz University of Technology, Austria)
Some Challenges (1)

- State-of-the-art academic controlled experiments versus State-of-the-practice industrial best practices
  - Major difference
  - Practicality

- Benchmark & Assumptions
  - Subject programs
  - Single-bug multiple-bug
  - Perfect bug detection
  - Evaluation Metrics

- Test generation and program debugging
  - How to find a failure-cause test
  - Test reduction & prioritization
  - Dynamic versus static
Some Challenges (2)

- Failure reproduction
  - Deterministic vs non-deterministic
  - Embedded systems
  - Real-time systems

- Effectiveness, Efficiency, Data Collection, Tool Support

- Automation
  - Hardware debugging versus software debugging
  - Cycle I:
    - Test generation
    - Test execution
    - Output verification (Oracle, coincidental correctness)
  - Cycle II:
    - Fault localization
    - Bug fixing
    - Regression testing

- Factor need to be considered for new techniques