



## **VOICE ABSTRACT EXAMPLE**

### **1) Title of the paper**

Example:

How to reduce the overall test cost of testing Power Management ICs (PMICS)

### **2) Motivation/problem statement: Why do we care about the topic? What is the goal of this paper?**

Example:

#### **Goal:**

Minimizing the production test time for any device is a key financial metric to the product release. This paper will show how to test 16 PMIC devices in 5 seconds in a production test flow.

### **3) Methods/procedure/approach: What topics will your paper cover?**

Example:

#### **How do we achieve this?**

- a. Test list by IP block
- b. Key Methodologies that allow us to achieve the desired goal
  - i. Smart Calc – theory and code examples
  - ii. Testing IPs in parallel for each site – theory and code examples
  - iii. Using DC Scale anchor points to make pattern based measurements - theory
  - iv. Using Smart RDI as a user friendly way for pattern based measurements – theory and code examples
- c DUT board considerations
  - i. Layout of the multi-site that helps to improve accuracy and reduce wait times.
  - ii. Other special things done – what and why

### **4) Results/findings/product: As a result of completing the above procedure, what are the results and what did you learn/invent/create?**

Example:

#### **Results:**

- a. Achieved this test time or possibly a reduction in percentage or test time over previous methods
  - i. Breakdown of test time if possible.
- b. What other benefits were achieved with the lower test time?
  - ii Better utilization of tester HW

**5) Conclusion/implications: What are the larger implications of your findings, especially for the problem/gap identified in step 2?**

**Conclusion:**

- a. Very high level summary of results
  - i. Went from test time x to test time y
  - ii. What are the biggest contributors to the test time reductions?
- b. I discovered these thing throughout the development process
  - i. System and software learnings
  - ii. Device learnings
- c. Next time I am going to do these things differently
  - i. Reorganize the test flow
  - ii. Use this new feature
  - iii. Try this different test methodology where I expect these benefits

Reference:

<http://hsp.berkeley.edu/sites/default/files/HOW%20TO%20WRITE%20AN%20ABSTRACT.pdf>