

Secondment report

Name: ESR2.4 Xinhui Lai
IRP title: **Functional and non-functional verification and debug methods for complex nanoelectronic systems**
From: TUT
To: CDNS
Period: Feb 17 – Mar 9, 2019

Activities during the secondment

▪ **Scope and objectives**

- Cadence JasperGold SPV tool study
- Formal verification methods study

▪ **Activities**

- Individual research presentation to the company and discussion
- Cadence JasperGold SPV tool usage discussion with developers
- Study the formal verification methods behind JasperGold SPV
- Run research experiment on JasperGold SPV

Main results achieved

- Get useful advices for future research and cooperation
- Get advices from developer regarding how to use JasperGold SPV tool
- Understand a bit of the formal method used in Cadence JasperGold SPV to search paths
- Finish research experiment for a paper

▪ **Next steps**

- Using JasperGold SPV for security aspects verification
- Exploring the formal verification methods

▪ **Optional request for support or a technology/tool available at host:**

No

Self-evaluation

Overall score: 4.5

I consider this secondment successful, with regards to the research objectives achieved, skills developed, supervision quality, diversity of the resources. (Agree = 5 ... Disagree = 1)

Optional comments

No

Date of the report approval by the supervisor: 18.11.2019

