

SoC Design in Big Data Era 大数据时代的系统芯片设计

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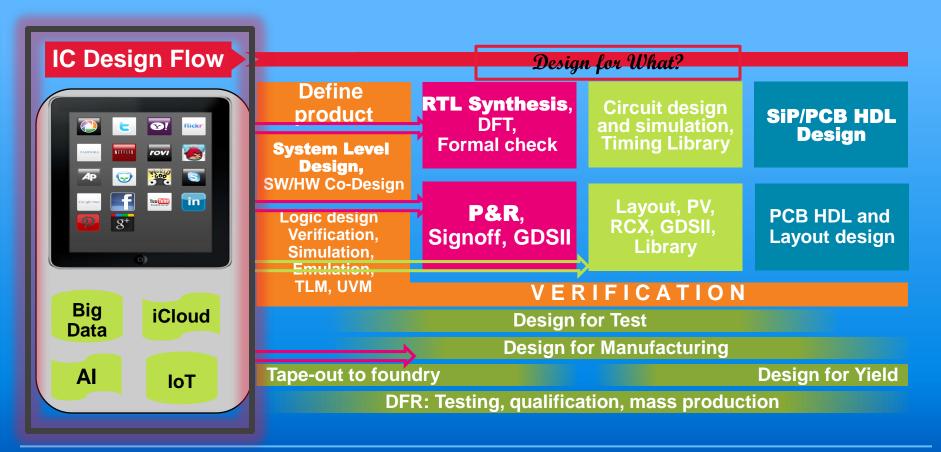
SoC Design in Big Data EraCourse Contents 2018

- Impact of AI-Big Data on SoC Design
 - AI Study and AI-Chip Design, Analysis & Storage, App & Security of BD.
 - <u>IoT Technology and SoC Design</u>, <u>ADAS and SoC Design</u>
- IDM/EDA/IP and System Design
 - IDM/Product Chain of Semiconductor, EDA Methodology & Design Flow,
 - Memory Design and HBM, xPU and DSA
- Verification & Implementation of SoC Design
 - System-Level Design/Verification, Syn SDC and STA, DFT and LEC.
 - Physical Imp of SoC, IP-SoC Integration
- Design Variations and Design For Yield
 - SPICE Lib, RC and Delay,
 - SI STA SSTA etc, Low Power PI PA
- Design for Reliability and Advanced Tech
 - AMS UVM, DFM and DFY, ESD wrt DFR,
 - RadHard wrt DFR, Adv Tech in SoC and Summary



2 (SUMMER 2018 UCAS, Beijing) Al-Big Data & SoC Design

SoC Design in Big Data Era



3 (SUMMER 2018 UCAS, Beijing) Al-Big Data & SoC Design

Home work and reading

SoC Design in Big Data Era

- Text Books
 - Physical Design (Recommended)
 - MS Methodology (Optional)
- Homework
 - See separate file "Project 18.doc"
- Down/Up load files from/to the class email:
 - <u>un2014en@163.com</u> (SoC_in_BDE)
- Send your Report or Homework to
 - czchen126@126.com





4 (SUMMER 2018 UCAS, Beijing) Al-Big Data & SoC Design