



KEYNOTE SPEAKER

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Foundry technology and strategy for sensor evaluation and delivery

Abstract

Foundry to support various sensor applications count on manufacturing technology readiness within economical and timely delivery. Marketing driving force and competition make process and product spec more dynamic than predicted. The presentation will discuss value-added and benefit through different integration and debug ways, as well as the associated drawback and challenges. It is foundry's obligation to explore better co-work way to understand sensor product maturity earlier, accordingly to trigger improvement plan earlier for production and competitiveness.

Biography

Chun-Wen Cheng is responsible for the MEMS technology development at tsmc. After received his BS degree in ME from NCTU, more than ten years' semi-conductor experience on different CMOS technology including DRAM, e-fuse, embedded memory, SoC and 90nm platform with timely delivery enrich his creativity sharply. Then first 3 years in MEMS field as fab director of 6 inch MEMS foundry gave him in depth understanding on the gap between CMOS / MEMS and MEMS design / MEMS manufacturing. To resolve CMOS-MEMS integration challenge he joined tsmc in 2008. He not only successfully delivered MEMS technology for various products to make tsmc become one of biggest MEMS foundry today, but also received a PhD from NTHU with support from tsmc and professor Weileun Fang. After published 10 papers and granted over 50 patents in MEMS field, he spends most effort on MEMS roadmap plan and execution for next gen sensor technology.

