

## **Who will design tomorrow's analog integrated circuits: humans or AI-based synthesis?**

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Analog/mixed-signal integrated circuits are key in applications where electronics interface with the physical world. The design of analog circuits, however, is time consuming and prone to errors, often requiring multiple redesign cycles. The rebirth of AI and machine learning, and the recent rise of generative AI methods, on the other hand, create a whole new spectrum of techniques to automate this process. This invited talk will explore the high potential of using advanced machine learning (ML) techniques to automatically synthesize and lay out analog integrated circuits. What is hype and what will be feasible? Will we still need analog designers in the future and how will they operate?