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<p>Wen-Cheng Lai (Senior Member, IEEE), Ph.D., Professor the Department of Electrical Engineering, Ming Chi University of Technology. He has been working in the field of radio-frequency circuits, analog IC integrated design, microwave antenna, computer and communication, artificial intelligence for more than 25 years. He has authored/ coauthored more than 300 SCI indexed journals and IEEE conference/ EI papers. He edited more than 60+ SCI indexed journals. He received the Ph.D. degree from the National Taiwan University of Science and Technology, Taiwan. He is Scopus World Ranking Top 2% Scientists from 2020 to 2023. He is professor at the Ming Chi University of Technology, New Taipei City, Taiwan.</p> <p>Email: <a href="mailto:ewayteaching@gmail.com">ewayteaching@gmail.com</a>; <a href="mailto:wenlai@mail.ntust.edu.tw">wenlai@mail.ntust.edu.tw</a>; <a href="mailto:wenlai@mail.mcut.edu.tw">wenlai@mail.mcut.edu.tw</a></p>			
<b>Speech Title (English):</b>			
<h2>Image Processing for Silicon Photonics Applications</h2>			
<b>Speech Abstract</b>			
<p>Silicon Photonics has become a prominent buzzword in the semiconductor industry, attributed to its high bandwidth, low power consumption, extensive transmission distance, and cost-saving features. Participants will witness how Silicon Photonics is revolutionizing data communication and telecommunications through high-speed data transmission, optical interconnects, and advanced networking solutions. Additionally, this presentation will delve into Silicon Photonics' role in advanced computing architectures, data centers, and cloud computing, as well as its transformative impact on the sensing fusion and image sectors. LiDAR applications will be explored for autonomous vehicles, humanoid robots, drone and optical communication.</p>			