

# Newsfeed

16.12.2019

## Best Paper Award for Highly-Integrated Multi-Channel SiGe Transceiver Suitable for 2-D and 3-D Radar Measurements

**Frankfurt (Oder).** IHP-scientist Dr. Herman Jalli Ng has been honoured with the best paper award at the Asia-Pacific Microwave Conference (APMC) in Singapore for his paper “Highly-Integrated Radar Transceiver with 2 TX and 4 RX Channels for Range, Azimuthal and Polar Angle Measurements”. “The paper describes a highly-integrated V-band 6-channel radar transceiver, which is composed of two transmit as well as four receive channels and is very suitable for MIMO radar systems. The transceiver chip is implemented in IHP SiGe BiCMOS technology and can be complemented by 2-D antenna array configuration to enable the measurements of the 2-D and 3-D positions of objects,” Dr. Ng describes the achievement.

APMC dates back to 1986 in New Delhi, and it is now recognized as one of the premier international conferences of microwave community to exchange results and discuss collaboration. The conference covers the entire scope of microwave and millimeter wave engineering, including RF/microwave/THz, antennas & propagation and EMC/EMI.



Dr. Herman Jalli Ng (right) at the Award Ceremony in Singapore.  
© private

### Further Information:

APMC: <http://web.apmc2019.org/client/sites/view/SP8f993>



innovations  
for high  
performance  
microelectronics



# Newsfeed

---

## About IHP:

The IHP is an institute of the Leibniz Association and conducts research and development of silicon-based systems and ultrahigh frequency circuits and technologies including new materials. It develops innovative solutions for application areas such as wireless and broadband communication, security, medical technology, industry 4.0, automotive industry, and aerospace. The IHP employs approximately 300 people. It operates a pilot line for technological developments and the preparation of high-speed circuits with 0.13/0.25  $\mu\text{m}$  BiCMOS technologies, located in a 1000 m<sup>2</sup> class 1 cleanroom.

[www.ihp-microelectronics.com](http://www.ihp-microelectronics.com)



innovations  
for high  
performance  
microelectronics

