

#106 (1570572673): Stacked Interdigital Filtering Antenna with Slant Polarization

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<b>Title</b>	Only the chairs ( <a href="mailto:2019ieeecama-chairs@edas.info">2019ieeecama-chairs@edas.info</a> ) can edit	<i>Stacked Interdigital Filtering Antenna with Slant Polarization</i>																									
<b>Abstract</b>	Only the chairs ( <a href="mailto:2019ieeecama-chairs@edas.info">2019ieeecama-chairs@edas.info</a> ) can edit	The studies of the filtering antenna have performed many methods and type of resonators used in co-design between the filter and antenna. But none of them using the interdigital resonator with a via through hole. Interdigital resonator with a via through hole has a unique characteristic for it is short circuited at one end and open circuited at the other. This condition is expected to have an effect to the electric field and the surface current direction. This paper performs a second order of the interdigital filter co-design with a proximity fed rectangular patch antenna. The simulation shows that the interdigital resonator with a via through hole affects the polarization of the antenna from a vertical polarization alter to a slant polarization. The design is fabricated and measured, both the simulation and measurement show a good agreement with a bandwidth of 330 Mhz at 4.65 GHz center frequency, maximum gain of 6.72 dBi and a - 75o slant polarization.																									
<b>Keywords</b>	Only the chairs ( <a href="mailto:2019ieeecama-chairs@edas.info">2019ieeecama-chairs@edas.info</a> ) can edit	interdigital; filtering antenna; slant polarization; via through hole																									
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<b>Presenter(s)</b>		<a href="#">Dwi Astuti Cahyasiwi (bio)</a>																									
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**Review 1 (Reviewer A)**

# 1 2019IEEECAMA Review (Special Sessions)

**Review 1 (Reviewer A)**

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