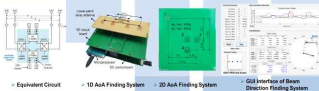

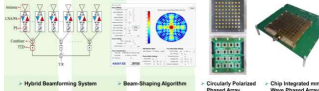
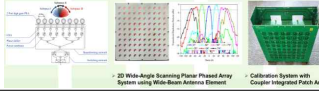


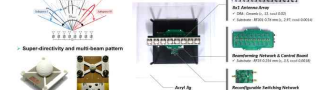
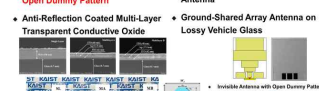
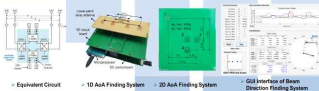

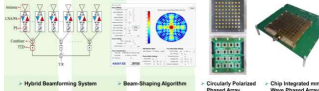
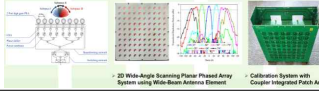


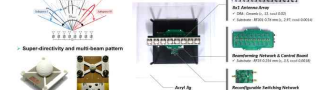
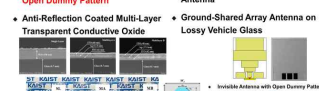
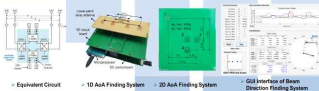

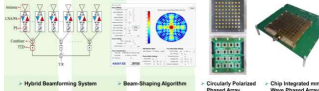
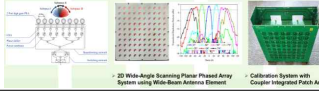


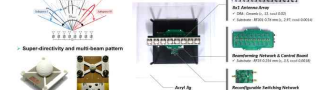
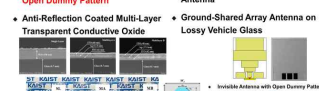


<h2 style="text-align: center;">RF System and Solution Lab</h2>	<p>■ Contact information</p> <p>Professor : drjwyu67@kaist.ac.kr TEL : 042-350-5478 Lab. : rfsslab@kaist.ac.kr Website : https://rfss.kaist.ac.kr</p>						
<p>■ Current state of the Lab. (in 2025 Spring Semester)</p> <p>Postdoctoral Fellows : 0 PhD Students : 8+2 (part time) Master's Students : 7</p>							
<p>■ Research Areas</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">RF System Development</th><th style="text-align: center;">Phased Array Antenna System</th></tr> </thead> <tbody> <tr> <td style="vertical-align: top; padding: 5px;"> <p style="text-align: center;">Beam Direction Finding System</p> <ul style="list-style-type: none"> 2 Dimensional Beam Direction Finding System Wide Coverage and High Accuracy with Compact Array Antenna Analog Angle of Arrival Estimation with Low Processing Burden Low Complexity System using Switched Six-Port Network  <p style="text-align: center;">FMCW SAR System and Algorithm</p> <ul style="list-style-type: none"> mm-Wave FMCW Radar System for Synthetic Aperture Radar Image Phase Error Compensation Method for Motion Compensation Leakage Noise Mitigation Method for Sensitivity Improvement Compact Lens and Dielectric Resonator Antenna  </td><td style="vertical-align: top; padding: 5px;"> <p style="text-align: center;">mm-Wave Beamforming System</p> <ul style="list-style-type: none"> Chip Integrated mm-Wave Phased Array with Interposer and Polymer Beam-Shaping Method for Low Side-lobe and Failure Recovery Phase Shifter and True Time Delay Hybrid Wideband Phased Array Circularly Polarized Phased Array for Satellite Communication  <p style="text-align: center;">Wide Angle Scanning Antenna Array System</p> <ul style="list-style-type: none"> Phased Array using High Gain Pattern Reconfigurable Elements Wide-Angle Phased Array using Wide-Beam Antenna Element 2D Wide-Angle Scanning Planar Phased Array Antenna System Coupler Integrated Patch Phased Array for Self-Calibration  </td></tr> <tr> <td style="vertical-align: top; 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<p>■ Recommended courses & Career after graduation</p> <ul style="list-style-type: none"> Postdoctoral Courses Various Government-funded/Government-contributed Research Institute (ex. KISTEP, KRIS, KINS, ETRI, KRRI, ADD etc.) Various Major Company (ex. Samsung Electronics, LG Electronics etc.) 	<p>■ Introduction to other activities besides research</p> <ul style="list-style-type: none"> Working out with other Lab or Running various programs once a month. 						
<p>■ Introduction to the Lab.</p> <p>For the next generation networks, we are trying to make it possible to have above characteristics of the RF systems more appropriate, more reliable, more efficient for the future wireless environment.</p>							
<p>■ Recent research achievements ('22-'25)</p> <p>- International Journal 17, International Conference 23, Award 16, Patent 11</p>							