
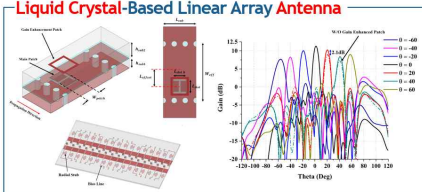
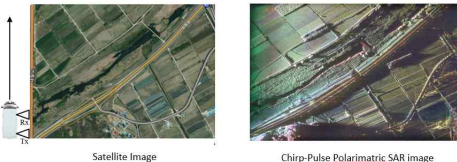
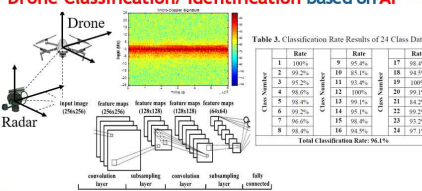

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<b>■ Current state of the Lab. (in 2025 Fall Semester)</b> Postdoctoral Fellows : 0      PhD Students: 15      Master's Student: 3																																																													
<b>■ Research Areas</b> Research at Microwave (Millimeter-wave) and Antenna Laboratory includes electromagnetic theories for antenna analysis, active beam scanning antennas, Radar systems, and synthetic aperture radar. <b>[5G and beyond 5G (6G) Antenna Technologies]</b> We develop a core technology of active antenna systems to design wide beam scan enhanced gain antenna, 5th and 6th generation mobile channel sounder system, and an accurate calibration with mmWave Antenna Measurement. <b>[Radar Surveillance System with AI and Synthetic Aperture Radar (SAR)]</b> We have realized and develop various radar systems, such as drone detecting system, an active electronic scanning radar, Synthetic Aperture Radar System, and radar target classification using deep learning technologies.																																																													
<b>AI Algorithm for Auto-Driving Using MIMO Radar</b> 	<b>Liquid Crystal-Based Linear Array Antenna</b> 																																																												
<b>Synthetic Aperture Radar System (SAR)</b> 	<b>Drone Classification/ Identification based on AI</b>  <table border="1"><caption>Table 3. Classification Rate Results of 24 Class Dataset</caption><thead><tr><th>Class Number</th><th>Rate</th><th>Class Number</th><th>Rate</th><th>Class Number</th><th>Rate</th></tr></thead><tbody><tr><td>1</td><td>100%</td><td>9</td><td>92.4%</td><td>17</td><td>98.4%</td></tr><tr><td>2</td><td>99.2%</td><td>10</td><td>92.1%</td><td>18</td><td>98.4%</td></tr><tr><td>3</td><td>95.2%</td><td>11</td><td>93.4%</td><td>19</td><td>100%</td></tr><tr><td>4</td><td>98.6%</td><td>12</td><td>100%</td><td>20</td><td>99.3%</td></tr><tr><td>5</td><td>99.4%</td><td>13</td><td>99.1%</td><td>21</td><td>94.2%</td></tr><tr><td>6</td><td>91.2%</td><td>14</td><td>92.1%</td><td>22</td><td>99.2%</td></tr><tr><td>7</td><td>99.0%</td><td>15</td><td>98.4%</td><td>23</td><td>92.2%</td></tr><tr><td>8</td><td>98.4%</td><td>16</td><td>98.3%</td><td>24</td><td>97.3%</td></tr><tr><td colspan="6">Total Classification Rate: 96.3%</td></tr></tbody></table>	Class Number	Rate	Class Number	Rate	Class Number	Rate	1	100%	9	92.4%	17	98.4%	2	99.2%	10	92.1%	18	98.4%	3	95.2%	11	93.4%	19	100%	4	98.6%	12	100%	20	99.3%	5	99.4%	13	99.1%	21	94.2%	6	91.2%	14	92.1%	22	99.2%	7	99.0%	15	98.4%	23	92.2%	8	98.4%	16	98.3%	24	97.3%	Total Classification Rate: 96.3%					
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<b>■ Recommended courses &amp; Career after graduation</b> Electromagnetics, Electronic Circuits, Signal Processing, and Antenna are recommended for undergraduate courses. For graduate courses, Electromagnetic Theory, Microwave Engineering, and Antenna Engineering are recommendable. 	<b>■ Introduction to other activities besides research</b> We hold an annual Homecoming Day to promote interaction between students and alumni, and share information about academic research and industrial trends. Also, there are plenty of soccer(5vs5) matches to maintain a sound body and mind.																																																												
<b>■ Introduction to the Lab.</b> Microwave (Millimeter-wave) and Antenna Laboratory have undertaken a number of government-sponsored projects. Based on the accumulated research experiences, we pursue creative and future-oriented research. Prof. Seong-Ook Park makes leads us to write decent papers on key technologies of our fields. Moreover the lab's atmosphere is fairly friendly and supportive which is the greatest strength of our lab.																																																													
<b>■ Recent research achievements ('22~'25)</b> <b>International Journals (16)</b> - IEEE Transactions on Aerospace and Electronic Systems, IEEE Transactions on Instrumentation and Measurement, IEEE Transactions on Antennas and Propagation, IEEE Sensors Journal, IEEE Access, Journal of Electromagnetic Engineering and Science. <b>International Letters (2)</b> - IEEE Geoscience and Remote Sensing Letters, IEEE Antennas and Wireless Propagation Letters. <b>International Conferences (10)</b>																																																													