

電機系 DEPARTMENT OF ELECTRICAL ENGINEERING



System Integration Laboratory

Professor Fu-Kang Wang focuses on the development of self-injection locking radar, which significantly improves the system sensitivity and clutter immunity by the novel architecture and algorithm, and can provide information on the vibration, distance, and see-through-wall image of the subject. He has authored or coauthored 59 technical publications in refereed journal and conference proceedings, mostly in IEEE publications, and holds 55 patents. Since the system can provide vital sign information of human or economic animals, its application in telemedicine and smart animal husbandry is highly anticipated, and several technology transfers have been completed and industry-academia collaborations have been tied. In the future, Professor Wang hopes to work on electromagnetic waves, visible light, and sound to open up infinite possibilities of non-contact sensing in industrial and civilian applications.

