

Deep Learning for Short-Range Radars

Avik Santra

Radar has evolved from a complex, high-end military technology into a relatively simple, low-end solution penetrating industrial and consumer market segments. This rapid evolution has been driven by two main factors, the advancements in silicon and packaging technology and the use of deep learning algorithms. The use of deep learning algorithms in short-range radar sensors has enabled several industrial and consumer applications such as gesture sensing, material classification, people counting, people tracking, vital sensing, among others.