Adaptive Radar Signal Processing

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Adaptive Radar Signal Processing
Learn about the most recent theoretical and practical advances in radar signal processing using ... CFAR detection, adaptive beamforming, random arrays for radar, space-time adaptive processing, and ...

Compressed Sensing in Radar Signal Processing
Coming soon to the LS, Teammate nails Level 2 autonomy and brings a reassuring amount of feedback that's missing from Autopilot.

2022 Lexus LS500h Teammate Driver-Assist-System Review: There's No "Tesla" in Teammate
The new radar will have adaptive digital beamforming and radar signal processing for dealing with high-clutter and jamming environments. The AN/SPY-6(V) radar also is reprogrammable to adapt to ...

Raytheon to develop software algorithms to enable surface warships to operate in receive-only stealth mode
Thanks to radar, sensor technology, and on-board computer processing power, safety is spreading in cars. Two new developments: radar-based adaptive cruise control ... 40 MHz digital signal processors ...

Safety options expand
CONCERTO project seeks to combine radar, electronic warfare ... seeks to create a converged heterogeneous RF processing engine for RF control and signal processing in a portable, easily upgraded ...

DARPA hires three companies for blended RF system to reduce size and ease technology insertion aboard UAVs
Xilinx announced a 7nm, headless "Versal AI Edge" SoC that runs Linux on dual 1.76GHz Cortex-A7 cores and has dual 750MHz Cortex-R5F cores, flexible, FPGA-like "Adaptible Engines" up to 520K LUTS, and ...

Xilinx unveils Versal AI Edge
Xilinx, Inc., the leader in adaptive computing, today introduced the Versal™ AI Edge series, designed to enable AI innovation from the edge to the endpoint. With 4 X the AI performance-per-watt versus ...

Xilinx Extends Edge Compute Leadership with World's Highest AI Performance-per-

Watt
His research interests lie in various areas of statistical signal and image processing, including sensor array signal processing, radar systems, and adaptive sensing. Fuhrmann is a fellow of the IEEE.

Daniel R. Fuhrmann
In addition, each of data acquisition, reconstruction and inference blocks in the data processing ... smart, adaptive, and resource-efficient sensing systems for a variety of applications, including ...

CAREER: Learning to Sense: Joint Learning of Task Oriented Cognitive Sensing with Data Driven Reconstruction and Inference
Xilinx has enhanced its Versal AI Edge adaptive compute acceleration platforms ... The compute performance is also suited to advanced signal processing workloads for vision, radar, lidar, and software ...

Versal AI Edge ACAP drives up ML compute and adds memory for AI
When they talked about how it would advance the state of the art in radar, electronic warfare ... particularly with respect to signal processing and functional integration, allow them to directly ...

Tektronix AWG Pulls Test into Era of Quantum Computing
Versal AI Edge adaptive compute acceleration platforms (ACAPs ... TOPS[2]—unmatched by ASSPs and GPUs targeting edge applications—and for advanced signal processing workloads for vision, radar, LiDAR, ...

Xilinx Claims Highest AI Performance-per-Watt for Edge Compute
Consider what Tesla works with: Its Autopilot-equipped vehicles (at least, before its recent abandonment of a forward radar sensor in ... deliver "powerful visual processing at up to 250 meters ...

2022 Lexus LS500h Teammate Driver-Assist-System Review: There's No "Tesla" in Teammate
Versal AI Edge adaptive compute acceleration platforms (ACAPs ... TOPS 2 —unmatched by ASSPs and GPUs targeting edge applications—and for advanced signal processing workloads for vision, radar, LiDAR, ...

Xilinx Extends Edge Compute Leadership with World's Highest AI Performance-per-Watt
Versal AI Edge adaptive compute acceleration ... targeting edge applications—and for advanced signal processing workloads for vision, radar, LiDAR, and software defined radio.