

- ▶ AIR BAGS
- ▶ ENGINE-CONTROL UNIT
- ▶ LIGHTING SYSTEM
- ▶ AIR CONDITIONING, CLIMATE CONTROL
- ▶ CRASH SENSORS
- ▶ INTEGRATED STARTER/GENERATOR
- ▶ BRAKING SYSTEM
- ▶ TRANSMISSION CONTROLS
- ▶ POWER-TRAIN SYSTEM
- ▶ IN-VEHICLE NETWORKS
- ▶ ELECTRONIC STABILITY CONTROL
- ▶ ELECTRONIC STEERING
- ▶ INFOTAINMENT SYSTEM
- ▶ WINDOW AND DOOR SYSTEMS
- ▶ POWER DISTRIBUTION AND CONNECTIVITY



Figure 1 Many emerging safety features begin as convenience features in high-end vehicles. Contemporary middle-class cars contain around 30 electrical/electrical systems, 50 to 100 microprocessors, and more than 100 sensors (courtesy Synopsys).
