Electronics & Electrical Systems

- Vehicle Sensors & Actuators
- Telematics Systems / Vehicle Navigation / HMI
- Auxiliary Controls
- Electronic Components and Microprocessors
- Electronic Engine Controls
- On Board Diagnostics
- Connected Vehicle
- Smart Vehicle / Smart Infrastructure
- Sensor Grid Technologies
- HV Infrastructure
- Vehicle Information and Communication
- Intelligent Transportation Systems

- CADCAM/CAD
- Design Simulation & Design Tools
- Digital Modeling
- Rapid Prototyping
- Virtual Development
- Interior Electronics
- Lighting Technology

- Low NOx Technologies
- Energy Efficient Manufacturing
- Design for Sustainability
- Vehicle Ownership/Usage Alternatives (shared ownership, renting, etc)
- GHG Emissions Reduction
- Integration of Transportation Systems into Urban Environments
- Mass Transit and Regional Transit Systems in an Era of Mega-Cities
- Sustainable Energy Efficient Manufacturing
- Advances in Alternative Energy Sources for Sustainable Development in the Transportation Sector
- Sustainable Materials and Components
- LCA and Sustainability
- Vehicle Electricalization Strategies for Sustainability
- End of Life Management: Reuse/Recycle/Remanufacturing
- Megatrends in Sustainability
- Reliability of Transportation System Design
- HEV Battery Management at End of Life (EOL)

- Fuel & Additive Effects on Engine Performance
- Compression Ignition Engines
- SI Engine Modeling
- Direct Injection SI Engine Technology
- New SI Engine & Component Design
- Two-Stroke Engines
- Rotary Engines
- SI Combustion
- High Efficiency and Reduced CO2 (g/m )
- Waste Heat Recovery
- Engine Downspeeding and Downsizing
- Variable Valve Train Technologies
- Small High-Efficiency Engines

- Hybrid and Non-Traditional Powertrains
- Advanced Hybrid Vehicle Powertrains
- Fuel Cell Power Systems
- EV Powertrains
- Advanced Battery Technologies
- Natural Gas Engines and Vehicles
- Hydrogen IC Engines
- Fuel Cells
- Fuel & Additive Effects on Combustion
- Alternative and Advanced Fuels
- Fuel Injection & Sprays
- Fuel & Additive Effects on Engine Performance
- Military Automotive

- Control and Optimization
- Powertrain Control and Optimization
- Powertrain Actuators and Sensors
- Combustion Control and Optimization
- Engine Components and Subsystems
- Advanced Turbochargers & Power Boost
- Engine Breathing Systems
- Power Cylinder Systems
- Variable Valve Actuation Systems
- Electronic Engine Controls
- On-Board Diagnostics
- Lubricants
- Engine Oils
- Heavy Duty Diesel Lubricants
- Transmission and Axle Lubricants
- Industrial Lubricant R&D to Improve Vehicle Performance
- Transmission & Drivelines
- Clutch Systems & Controls
- Gear Systems & Driveline
- Launch Devices
- New Transmission Systems
- Hybrid Transmissions
- CVT / IVT
- Transmission & Driveline NVH
- Engine Flows and Combustion Diagnostics
- In-Cylinder Velocity Measurements
- Heat Transfer and Advances in Thermal
- Fluid & Surfaces
- Multi-Dimensional Modeling
- Vehicle & Engine Systems Analysis & Modeling

- Connected Vehicle
- V2V/V2I Safety Applications
- Activity Safety
- Lane Departure Warning/Lane Keeping Assistance
- Collision & Blindspot Warning
- Active Pedestrian Protection
- Backover Protection
- Collision Imminent Braking
- Collision Avoidance
- Occupant Protection
- Air Bag/Suppression
- Belt Restraints
- Child Passenger Restraints
- Biomechanics
- Pedestrian Safety
- Integrated Safety Systems
- CADCAM/CAD Methods in Crash Safety Applications
- Occupant Safety
- Rollover
- Rear & Side Impact
- Accident Reconstruction
- Event Data Recorders
- Computer Applications for Crashworthiness
- Vehicle Aggressivity & Compatibility in Crashes
- Safety Test Methodology
- Safety Critical Systems
- Collision Avoidance
- Pre-crash sensing

- Fire Safety
- Fire Statistics & Analysis
- Material Flammability & Fire Experiments
- Underhood and Electrical Fires
- Hydrogen Vehicle Fire Safety
- Suppression Systems
- Body Design & Engineering
- Design Optimization: Methods & Applications
- Body Structures
- Corrosion Prevention
- Digital Human Modeling
- Glass Applications

SAFETY / TESTING

- Human Factors
- Seating
- Visibility
- Comfort
- Mobility
- Taliometry
- Lighting Technology
- Aerodynamics
- Telematics
- Wiper Systems
- Steering, Chassis & Suspension
- Tire Performance & Durability
- Stability control systems
- Simulation and modeling
- Measurement
- Safety
- Vehicle Dynamics/Chassis
- Tires
- Testing/Simulation
- Tires
- Codes and Standards
- Engine Oil
- Brake Fluid
- Fuel
- Fluids & Lubricants
- Materials
- Green Motorsports
- Alternative Energy Systems & Sources
- Noise, Vibration and Harshness
- Engine Oil/Powertrain/Drivetrain
- Vehicle Exterior
- Engine
- Numerical Methods
- NVH Measurement
- Passive and Active NVH Control
- Steer-by-Wire
- Vehicle Subsystem NVH

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