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Webinar Series

August 16 2023 | 11 a.m. EST

Meet the Expert: Dr. Warren N Hardy, Associate Professor Thrust Area Specialty: Bio , Micro and Nano Systems

Log in for a **LIVE** interview to learn more about his insights across his publications relating to understanding the importance of acoustical standards and NVH.

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Ongoing Learning Opportunities

[SAE Mobilus Spotlight](#)

September 26, 2023 | 9 a.m. EST

Discover what's new in under 30 minutes.

Discover the latest titles in Autonomous Applications in Commercial Vehicles.

Join us for a highlight of the best practices in searching the standards, the latest research, and what organizations are publishing in the field.

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Aerospace Standards & Aerospace Material Specifications

Aerospace Standards and Aerospace Materials Specifications [43]

- [Fluid, Aircraft Deicing/Anti-Icing, SAE Type I](#)
- [Cleaning/Scale Removing Compound Aircraft Vacuum Toilet Systems](#)
- [Designing for Long Life with Elastomers](#)
- [Recommended RMS Terms and Parameters](#)
- [Torsion Strength Testing of Hydraulic Tube Joints](#)
- [Medium Temperature, Out-of-Autoclave, Oven-Vacuum-Bag Cure Epoxy Resin Impregnated Fiber Reinforced Composite Materials, Type 35, Class 4, Grade 293, Style 7781](#)

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Ground Vehicle Standards

Ground Vehicle Standards [17]

- [Fueling Protocol for Gaseous Hydrogen Powered Heavy Duty Vehicles](#)
- [Requirements for Composite Lighting Assemblies Used on Construction and Industrial Machinery](#)
- [Hybrid III Six-Year-Old Child Dummy User's Manual](#)

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Technical Papers

Technical Papers [22]

- [Eliminating Uneven Illumination for Accurate Lane Line Detection: A Dark Channel Prior Algorithm Approach](#)
- [Control Strategy of Diesel Engine Hybrid Starter System](#)
- [Modeling Virtual Sensor for Engine Nitrogen Oxides Using Variants of Artificial Neural Networks](#)

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[SAE MobilityRxiv®](#)

This **free online archive and sharing service** provides English-language preprints in the mobility/transportation field, including ground vehicles, commercial vehicles, and aerospace and aviation.

- [Design and Simulation of a Novel Fin Geometry for Lateral Airflow Control and Improved High-Speed Cornering](#)

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Journal Articles

Journal Articles [20]

- [Influence of Sound and Vibration on Perceived Overall Ride Comfort—A Comparison between an Electric Vehicle and a Combustion Engine Vehicle](#)
- [SAE International Journal of Engines](#)
- [Framework for Initializing the Conceptual Design of Hypersonic Aircraft](#)
- [SAE International Journal of Engines](#)
- [Structural Design and Analysis of Sliding Composite Mono Leaf Spring](#)
- [SAE International Journal of Materials and Manufacturing](#)
- [Application of a Neural-Network-Based Algorithm for the Real-Time Correction of the In-Cylinder Pressure Signal Sensed with a Piezoelectric Washer](#)
- [SAE International Journal of Connected and Automated Vehicles](#)

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EDGE Research Reports

EDGE Research Reports [3]

- [Edge Mobility Webinar Metals, Polymers, or Composites: Industry Experts and Their Take on AM](#)
- [Reducing Human Driver Error and Setting Realistic Expectations with Advanced Driver Assistance Systems](#)
- [Micromobility, User Input, and Standardization](#)
- [Controlling Aircraft—From Humans to Autonomous Systems: The Fading Humans](#)

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Professional Development

[Problem Solving and Root Cause Analysis C1887](#)

This course provides an overview of successful problem-solving models and guides the

participants through the steps for effective problem resolution. The 8D problem-solving model embodies all of the essential steps for effective team-based problem solving.

[Lean More](#)

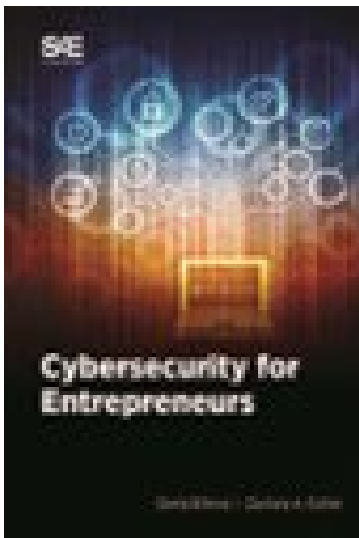
[Exploration of Convolutional Neural Networks for ADAS and L4 Vehicle Perception C2205](#)

You'll examine an existing convolutional network to understand how it is constructed and trained and then using open-source python tools you'll create your own convolutional neural network. You'll train your network using a supplied training data set and then test your networks performance.

[Lean More](#)



Book Spotlight



[Cybersecurity for Entrepreneurs](#)

by Gloria D'Anna and Zachary A Collier

Cybersecurity for Entrepreneurs, is the perfect book for anyone considering a new business venture. Written by cybersecurity experts from industry and academia, this book serves as an all-inclusive reference to build a baseline of cybersecurity knowledge for every small business.

[Read It!](#)



Events

[SAE On-Board Diagnostics Symposium](#)

September 12-14, 2023 | Indianapolis, IN

This symposium will bring industry leaders together to discuss relevant and timely technical topics that directly influence ground vehicle emission reduction efforts.

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[SAE COMVEC](#)

September 19-21, 2023 | Schaumburg, IL

At Comvec you will discuss trends, share successes, discover the latest research and technology, and tackle the challenges of a safe low-carbon vehicle future.

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