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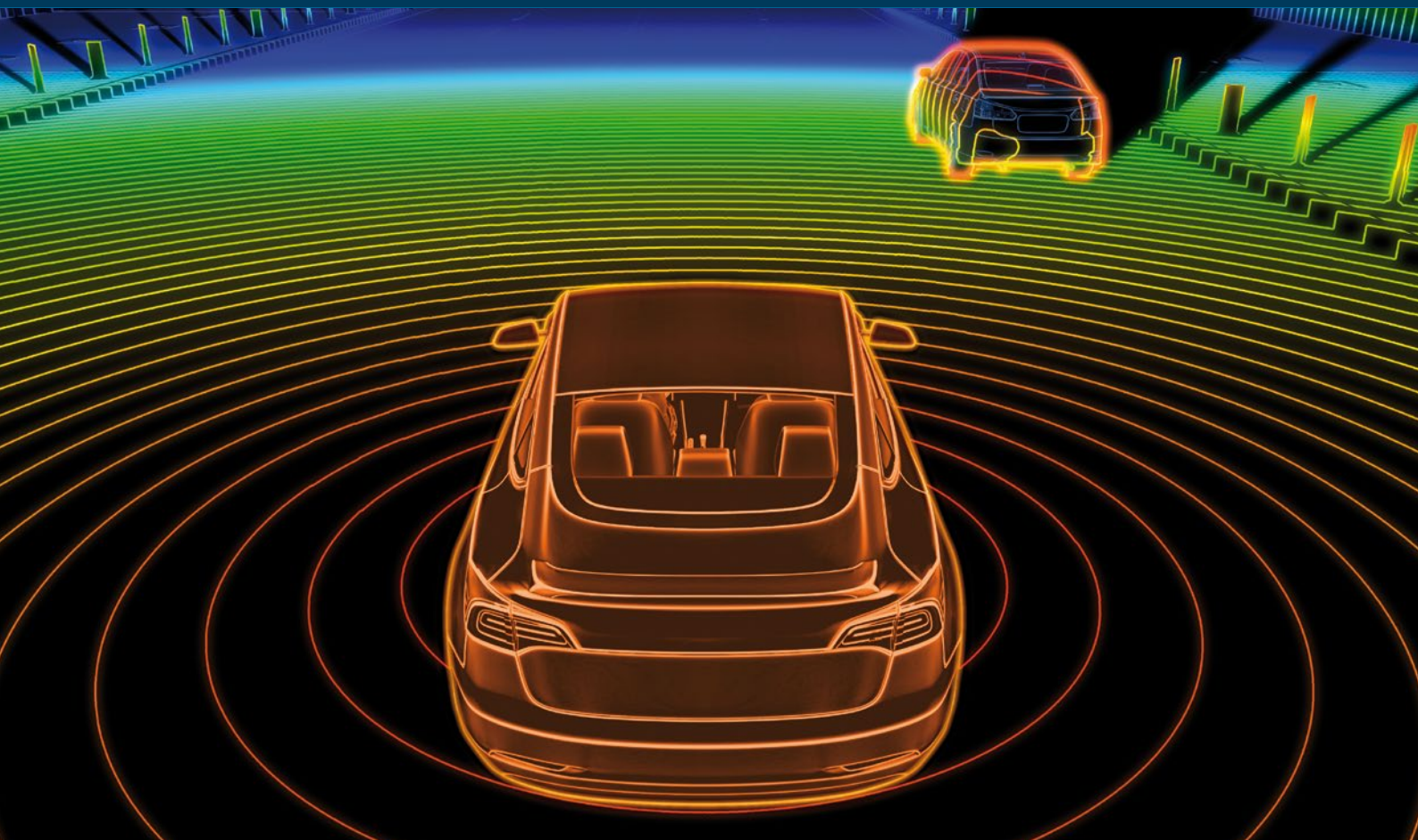
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DVN AUTOMOTIVE LIDAR CONFERENCE & EXPO

“APPLICATIONS, SYSTEMS, TECHNOLOGY ENABLERS,
MARKET & ECOSYSTEM ”

THE DORINT HOTEL MAIN-TAUNUS CENTER, FRANKFURT-SULZBACH

- 4TH DVN CONFERENCE & EXHIBITION ON AUTOMOTIVE LIDAR -



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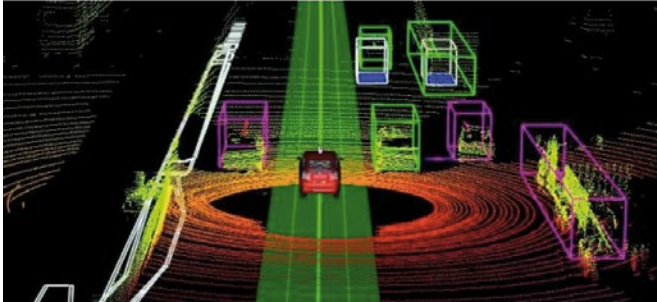
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**4th DVN CONFERENCE ON AUTOMOTIVE LIDAR- NOVEMBER 15-16-2021 THE DORINT HOTEL
MAIN-TAUNUS CENTER, FRANKFURT-SULZBACH**



Since their inception, DVN Lidar Conferences have quickly become the must-go technical congress to see and hear all about the latest innovations amidst the galloping growth of the automotive lidar sector. The fourth DVN Lidar Conference is scheduled for 15-16 November in the Frankfurt am Main area.

After a long period without face to face meeting and networking, we expect this to be one of the first live events, **opened to vaccinated (and Covid recovered) attendees**. A first afternoon conference will take place on November 15 followed by a networking dinner and a full conference day on November 16.

In the first two sessions, automakers and tier-1 suppliers will give their views on the application roadmaps of lidar sensors and will discuss the opportunities of this technology for ADAS and autonomous driving. A special topic will be integration of sensors in body components like headlamps and roof structures.

Session 3 has a special focus on the lidar ecosystem's development and on expectations on lidar market developments, and will highlight safety aspects required by future NCAP evolution. An adjacent panel discussion will highlight key questions and involve the audience.

In sessions № 4 and 5, leading lidar suppliers will present their experience with automotive lidar, and address their challenges and expectations for the next five years until real L3 autonomous driving will become reality.

Sessions 6 and 7 will address technologies to support the reliability of lidar systems under realistic conditions like snow, ice, rain, sandblasts, high humidity, exhaust fumes. This year's conference throws a strong light on component technologies which can enable lidar system suppliers to overcome or manage obstacles like these.

Another very important topic in this context, of course, is testing of lidar systems under various use cases, conditions, and applications with the ultimate goal to reach a common standard.

A panel discussion about the challenges of lidar systems in their automotive real-world applications and ways forward to come to a common solution for such issues will close the second day.

As you can see from the docket detailed on next page, there will be ample time for individual communication and networking during the coffee breaks, lunches and especially the social cocktail and dinner as a highlight on the first day.

Expo booths adjacent to the conference will provide an ideal composite venue for showcasing innovations and development work by a variety of companies.

All main players have now concluded that for the foreseeable future lidar is the only technology able to provide the redundancy needed for Level 3+ and above. This event will help you to make your mind on this subject.

There will be room for over 200 attendees, with seats available on a first-come basis. If you want to attend, find detailed information below or please contact

Salomon Berner at: sberner@drivingvisionnews.com

Registration online at:

<https://www.drivingvisionnews.com/boutique/lidar/2021-lidar-conference/>

Entree fee for conference:

1 000 Euros/person

Agenda 4th DVN Conference on Automotive Lidar

APPLICATIONS, SYSTEMS, TECHNOLOGY ENABLERS, MARKET & SUPPLY CHAIN

Day 1: Monday 15 November

13:00 Opening of conference; keynote speech 1

13:30 Session 1: Automotive Lidar Applications 1

Automakers will share their views on what it takes to implement lidar in a vehicle, and their thoughts and cost/benefit perspectives on if and why lidar has to be added to a car. Tier-1 system integrators will describe their innovations and thoughts on how lidar can best be integrated in vehicles

Expected presentations from BMW, Ford, Volvo, followed by Marelli-AL followed by Q&A

-Frederic Chave, Marelli's Director of ADAS Sensor Product and Business Development, will present *Versatile use of Lidar modules into Smart Corner and grille*.

14:45 Session 2: Automotive Lidar Applications 2

Automakers will share their views on what it takes to implement lidar in a vehicle, and their thoughts and cost/benefit perspectives on if and why lidar has to be added to a car. Tier-1 system integrators will describe their innovations and thoughts on how lidar can best be integrated in vehicles. *Lectures confirmed by Stellantis, ZKW, Koito, and Fraunhofer ILT followed by Q&A.*

-ZKW's Autonomous Driving Technology Manager Georg Pitterle will present *Challenges of Lidar Integration - About Thermal, Cleaning, and Lens Issues*.

16:30 Session 3: Market and Ecosystem

This session will address drivers and scenarios on the evolution of the lidar market in value and volume. Special focus will also be given to partnerships and special promotion of lidar to propel the market. *Lectures confirmed by LeddarTech, Yole, and carhs.training followed by Q&A*

-LeddarTech's President and CEO Frantz Saintellemy will give a presentation *Why Flexible Platforms Are Required For Future ADAS/AD Deployments*.

-Yole's Market and Technology Senior Analyst Pierrick Boulay will discuss his view on *Lidar technology roadmaps: trends, developments, and opportunities*.

-Ralf Reuter, who is Marketing and Operations Director of carhs.training, will discuss the role of NCAP and ADAS: *NCAP Roadmaps Regarding the Assessment of Accident Avoidance Systems*.

17:45 Panel Discussion 1

The first panel discussion will bring experts and executives together to discuss a challenging theme provided and moderated by DVN. Audience participation will be facilitated and encouraged!

18:15 Social cocktail and welcome dinner

(Continue next page)

Day 2: Tuesday 16 November

08:30 Opening of conference and keynote speech II by Valeo

09:00 Session 4: Automotive Lidar Systems 1

Lidar suppliers will present their latest developments, roadmaps, and market experience.

Lectures confirmed by **Cepton, Xenomatix, Ibeo, and Blickfeld** followed by Q&A

-Ibeo's Global Operations Director Mario Brumm will expound on lidar and autonomous driving: *Lidar Quo Vadis: How Solid-State Sensors are Making Automated Driving Suitable for Mass Production.*

-Xenomatix's CEO Filip Geuens will give a presentation about some real-life challenges of lidar: *How to Assure a Clear View For Solid-State Lidar.*

10:45 Session 5: Automotive Lidar Systems 2

Lidar suppliers and specialists will present their latest developments, roadmaps, and market experience. Lectures confirmed by **Continental, Velodyne, Lumentum, and Liangdao** followed by Q&A.

Lumentum's 3d Sensing Product Line Manager Matt Everett will give a talk on *High-Power VCSEL Arrays For Next-Generation Lidar Systems.*

14:00 Session 6: Technology Enablers 1

Specialist companies in the field of optics, light sources, measurement systems, and materials will present their latest developments. Lectures confirmed by **Auer Lighting, Canatu, KSLD & University of Strathclyde, and Osram** followed by Q&A.

Auer Lighting's Senior Sales Director Christian Passlick will describe his company's work on *Multilayer Coatings Enabling Advanced Sensor Solutions.*

-Canatu CEO Juha Kokkonen will present a new transparent heater technology: *CNB Heaters as a Key Enabler of Anti-Weather Safe Autonomous Driving.*

-KSLD Business Development Director Josip Kovacevic and University of Strathclyde LiFi Research Director Harald Hass will present about *LaserLight™, the All-In-One Enabler for Ranging, Lidar and High Speed LiFi.*

-Osram Opto Semiconductors Senior Lidar Expert Clemens Hofmann will describe *Lidar System Advantages Using 905-nm Lasers With Wavelength Stability Technology.*

15:15 Session 7: Technology Enablers 2

Specialist companies in the field of optics, light sources, measurement systems, and materials will present their latest developments. Lectures confirmed by **Dioptric, Fraunhofer IMS, Trioptics, and 3M** followed by Q&A.

-Dioptric's Inspection Systems Division Head Niklas Andermahr will describe his company's perspective on *Optical Quality Testing of Lidar Sensors.*

-Fraunhofer IMS' Mobility Head Jennifer Ruskowski will give a talk about the *Future of Flash Lidar Components and Embedded KI for Lidar.*

-Trioptics' Automation Manager Dirk Seebaum's presentation will describe *Solutions for Optical Alignment in Mass Production.*

-And Jonah Shaver, a 3M Senior Development Engineer, will discuss 3M's latest progress about *Considerations for Lidar Operations in Inclement Weather Conditions.*

16:30 Panel Discussion II

The second panel discussion will bring experts and executives together to discuss a challenging theme provided and moderated by DVN. Audience participation will be facilitated and encouraged!