CONFERENCE PROGRAM

2025 IMEKO TC2 INTERNATIONAL SYMPOSIUM

MODERN PHOTONIC METROLOGY

MODENA, ITALY SEPTEMBER 1-3, 2025

PHOTOMET MODENA 2025

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Book of Abstracts

The IMEKO PhotoMet 2025 Book of Abstracts can be downloaded from the following link https://photomet.org/abstracts/index.php

The download password will be provided to registered conference participants via email.

For further information, contact the Conference Committee at info@photomet.org

Message from the General Chairs

It is our great pleasure to welcome you to the first edition of **PhotoMet**, an event born from the vision of creating a vibrant, international forum dedicated to photonic technologies for metrology, sensing, and measurement systems. PhotoMet aims to become the flagship conference of the **IMEKO Technical Committee 2 (TC2) on Photonics**, promoting excellence and innovation at the intersection of photonics and measurement science. In this inaugural edition, our primary objective is to build a strong and enduring community of researchers, practitioners, and stakeholders committed to advancing the role of photonic methods in modern metrology.

The contributions collected in this Book of Abstracts represent a wide range of research efforts, reflecting both the maturity and the emerging challenges of the field. From advanced optical sensing techniques to biomedical diagnostics, from intelligent mobility to environmental monitoring, the breadth of topics addressed here underlines the central role photonics plays in the transformation of measurement technologies.

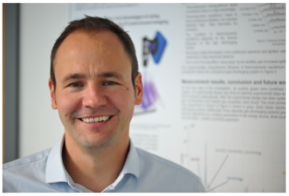
We hope that this conference will foster new collaborations, spark insightful discussions, and lay the groundwork for a robust core community that will support and sustain the development of photonic-based measurement systems in the years to come.

We would like to express our deepest gratitude to all the authors, reviewers, session chairs, and participants who made this first edition of PhotoMet possible. Your contributions are essential in shaping the future of this promising conference series.

With our warmest regards,

The General Chairs

Prof. Luigi Rovati



Prof. Maik Rosenberger

Prof. Armando Albertazzi

Message from the Honorary Chair

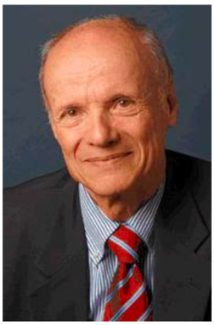
Dear participants and delegates,

It is a great honor for me to welcome you to **IMEKO PhotoMet 2025**. This event brings together some of the most brilliant minds in the field of optical metrology to present and discuss the latest developments and findings. I am convinced that the work presented here and the discussions that follow will point the way forward and help us meet the challenges of the coming years. The world of photonics and optical metrology has proven to be extremely innovative and continues to integrate the most significant technological advances. Consider, for example, the laser, which has revolutionized precision and efficiency in numerous fields, enabling the field of interferometry. Or the CCD camera, which has significantly improved imaging in science and everyday life, serving as the backbone of machine vision and industrial quality assurance.

LEDs have transformed lighting technology, offering custom lighting solutions to many optical instruments. These technologies are just a few examples of how optics and photonics rapidly adapt to technological trends and translate them into industrial solutions. In doing so, optics and photonics are constantly pushing the boundaries of what is possible. Today, we work increasingly closely with quantum technology. This interdisciplinary cooperation opens up new perspectives and brings us closer to realizing ideas that were once considered unattainable. The combination of optical and quantum technologies has the potential to usher in a new era of innovation that will have a lasting impact on both science and industry. **IMEKO PhotoMet** offers an unparalleled platform for exchanging knowledge, forging new partnerships, and shaping the future of optical technologies. I hope you will take full advantage of this opportunity to make valuable contacts and engage in inspiring discussions.

I wish you all an inspiring and productive conference and look forward to witnessing the impressive advances and ideas that will be shared here. Let us work together to push the boundaries of optical technologies and shape a better future.

With kind regards,



Prof. Tilo Pfeifer

IMEKO PhotoMet 2025 Committee

Honorary Chair
Tilo Pfeifer, *RWTH Aachen University, Germany*

General Chairs
Luigi Rovati, *University of Modena and Reggio Emilia, Italy*
Maik Rosenberger, *Technische Universität Ilmenau, Germany*
Armando Albertazzi, *Universidade Federal de Santa Catarina, Brazil*

Technical Program Chairs
Stefano Cattini, *University of Modena and Reggio Emilia, Italy*
Daniela Gandolfi, *University of Modena and Reggio Emilia, Italy*
Gunther Notni, *Technische Universität Ilmenau, Germany*

Publication Chairs
Federico Tramarin, *University of Modena and Reggio Emilia, Italy*
Giovanni Gibertoni, *University of Modena and Reggio Emilia, Italy*

Special Sessions Chairs
Davide Cassanelli, *University of Modena and Reggio Emilia, Italy*
Agostino Gibaldi, *University of Modena and Reggio Emilia, Italy*

International Program Committee
Valentina Bello, *University of Pavia, Italy*
Mauricio de Porath, *HAW Hamburg, Germany*
Paul G. Dittrich, *Spectronet collaboration cluster, Germany*
Francesco Fienga, *University of Naples Federico II, Italy*
Thomas Fröhlich, *Technische Universität Ilmenau, Germany*
Mario Giardini, *University of Dundee, UK*
Mirco Guigli, *Illumina, San Diego (CA), USA*
Tuan Guo, *Jinan University, China*
Raik Illmann, *Technische Universität Ilmenau, Germany*
Thomas Kissinger, *Technische Universität Ilmenau, Germany*
Udo Krüger, *Technoteam GmbH Ilmenau, Germany*
Mathias Längle, *Fraunhofer IOSB Karlsruhe, Germany*
Roman Morawski, *Universität Warschau, Poland*
Michele Norgia, *Politecnico di Milano, Italy*
Gunther Notni, *Fraunhofer IOF Jena, Germany*
Yukitoshi Otani, *Center for Optical Research and Education - Utsunomiya University, Japan*
Tiago Loureiro Pinto, *UFSC, Brazil*

Marco Ruggeri, *Bascom Palmer Eye Institute and University of Miami, USA*
Meinhard Sesselmann, *UFMG, Brazil*
Alberto Vallan, *Politecnico di Torino, Italy*
George Xiao, *National Research Council Canada, Canada*
Chen Zhang, *Technische Universität Ilmenau, Germany*

IMEKO PhotoMet 2025 Keynote Speaker

Plenary Session - Monday September 1 - H 10:00

Optical Metrology: Wide-Scale Potential and Future Trends

Wolfgang **Osten**
University of Stuttgart, Germany

SPEAKER BIOGRAPHY

Wolfgang Osten received the MSc/Diploma in Physics from the Friedrich-Schiller-University Jena in 1979. From 1979 to 1984 he was a member of the Institute of Mechanics in Berlin working in the field of experimental stress analysis and optical metrology. In 1983 he received the PhD degree from the Martin-Luther-University Halle-Wittenberg for his thesis in the field of holographic interferometry. From 1984 to 1991 he was employed at the Central Institute of Cybernetics and Information Processes ZKI in Berlin making investigations in digital image processing and machine vision. Between 1988 and 1991 he was heading the Institute for Digital Image Processing at the ZKI. In 1991 he joined the Bremen Institute of Applied Beam Technology (BIAS) to establish and to direct the Department Optical 3D- Metrology till 2002. From September 2002 till October 2018 he has been a full professor at the University of Stuttgart and director of the Institute for Applied Optics. From 2006 till 2010 he was the vice rector for research and technology transfer of the Stuttgart University. His research work is focused on new concepts for industrial inspection and metrology by combining modern principles of optical metrology, sensor technology and digital image processing. Special attention is directed to the development of resolution enhanced technologies for the investigation of micro and nano structures. Wolfgang Osten is fellow of OSA, SPIE, EOS, SEM, IAAM, and senior member of IEEE. He is a Honorary Professor of the Shenzhen University, China, a Honorary Doctor of the University of Technology of Ilmenau, Germany, the 2011 recipient of the Dennis Gabor Award of the The International Society for Optics and Photonics SPIE, the 2018 recipient of the Rudolf Kingslake Medal of the SPIE, the 2019 recipient of the Chandra Vikram Award of the SPIE, and the 2019 recipient of the Emmeth Leith Medal of the Optical Society OSA.

IMEKO PhotoMet 2025 Venue

IMEKO PhotoMet 2025 will be held at the **Department of Engineering "Enzo Ferrari" - Tecnopolo - Building 52** - University of Modena and Reggio Emilia - Modena.
Established twenty-five years ago, the "Enzo Ferrari" Department of Engineering was founded in the Academic Year 1990-91. Its main building, which covers more than 160,000 sqm, meets the highest teaching and research requirements. The Department regularly cooperates with renowned firms in the car manufacturing, chemical, mechanical, ceramics and biomedical fields, as well as enterprises in the sectors of information technology, telecommunications and industrial electronics.

ADDRESS

Department of Engineering "Enzo Ferrari"
University of Modena and Reggio Emilia

Via P. Vivarelli, 10
Modena

Use the QRCode to open the location on *Google Maps*


Via G. Gottardi
Gottardi
Bus Stop
Free parking
Via B. Zanoni
25
27
28
26
52
Free parking
Via P. Vivarelli
Via Rodolfo
Gelmini
Pickup point for bus transfers (gala dinner and
Ferrari visit)

IMEKO PhotoMet 2025 Gala Dinner
Tuesday September 2 - H 20:00

The Gala Dinner will be held at **Agriturismo Lambruscheria Ca'Berti** on Tuesday, September 2.

A shuttle service will be available for the Conference Attendees.

Ca'Berti

ADDRESS

Agriturismo Lambruscheria Ca'Berti
Via Spagna 60
Castelvetro Di Modena, Italy

SHUTTLE SERVICE
The bus to the conference dinner will depart from the parking area indicated on the map (Pag. 9) - parking at Entrance N. 3 - at 19:15 PM.

IMEKO PhotoMet 2025 Patronages

UNIVERSITAS STUDIORUM MUTINENSIS ET REGIENSIS 1175

UNIMORE
UNIVERSITÀ DEGLI STUDI DI MODENA E REGGIO EMILIA

emilia

CON IL PATROCINIO DI
CONFINDUSTRIA EMILIA AREA CENTRO
Le imprese di Bologna, Ferrara e Modena

Technical Program - Monday, September 1

09:30 - 17:00	*Tecnopolo - Building 52* **REGISTRATIONS**

10:00 - 10:30	**Room:** *Sala Eventi, Tecnopolo - Building 52* **OPENING CEREMONY - WELCOME ADDRESSES**

10:30 - 11:30	**Room:** *Sala Eventi, Tecnopolo - Building 52* **KEYNOTE** **Chair**: Maik Rosenberger, *Technische Universität Ilmenau, Germany*

Optical Metrology: Wide-Scale Potential and Future Trends

Wolfgang Osten, *University of Stuttgart, Germany*

11:30 - 12:30	**Room:** *Sala Eventi, Tecnopolo - Building 52* **Session 1 - General Track - PART I** **Chair:** Armando Albertazzi, *Universidade Federal de Santa Catarina, Brazil*

11:30 **Comparison of Principal Component Analysis and different band selection methods for classification of construction waste with hyperspectral images**
Lennard Wunsch, Gunther Notni, *Technische Universität Ilmenau*

11:50 **Improvement of 3D shape measurement of translucent objects by applying direct-global light separation**
Chen Zhang, Wang Liao, Gunther Notni, Haoze Wang, Maik Rosenberger, Stephan Husung, *Technische Universität Ilmenau*

12:10 **Optical distance measurement as application for embedded programming and visualization in teaching applications**
Maik Rosenberger, Andrei Golomoz, Gunther Notni, Martin Richter, Mirco-Andy Eilhauer, Raik Illmann, Richard Fütterer, *Technische Universität Ilmenau*

12:30 - 13:30	*Tecnopolo - Building 52* **LUNCH**

13:30 - 15:10	**Room:** *Sala Eventi, Tecnopolo - Building 52* **Session 2 - General Track - PART II** **Chairs:** Maik Rosenberger, *Technische Universität Ilmenau, Germany* Giovanni Gibertoni, *University of Modena and Reggio Emilia, Italy*

13:30 **Design Optimization of a Photoacoustic System for Gas Detection in Exhaled Breath**
Marco Muzzarelli, Giovanni Gibertoni, Daniele Goldoni, *University of Modena and Reggio Emilia*, Ali Marzdar, University of Pavia, Enza Panzardi, *University of Siena*, Marco Grassi, Piero Malcovati, *University of Pavia*, Marco Mugnaini, *University of Siena*, Luigi Rovati, *University of Modena and Reggio Emilia*

13:50 **Optical Coherence Tomography for the Objective Assessment of Conservation Treatments on Historic Painted Surfaces**
Paola Buscaglia, *Centro per la Conservazione ed il Restauro dei Beni Culturali "La Venaria Reale",* Alberto Vallan, *Politecnico di Torino*, Alessandro Re, *University of Torino*, Chiara Bellezza Prinsi, *Politecnico di Torino,* Federica Pozzi, *Centro per la Conservazione ed il Restauro dei Beni Culturali "La Venaria Reale"*, Guido Perrone, Leila Es Sebar, Luca Lombardo, Massimo Olivero, Sabrina Grassini, Sara Croci, *Politecnico di Torino*

14:10 **Calibration and Uncertainty Evaluation of Fiber Bragg Grating Temperature Sensors**
Alberto Vallan, Alessio Carullo, Aurora Bellone, Guido Perrone, Marco Sento, *Politecnico di Torino*

14:30 **Characterization and comparison of two measurement principles for the acquisition of forest road bodies**
Gunther Notni, Maik Rosenberger, Martin Richter, Raik Illmann, *Technische Universität Ilmenau*

14:50 **Fluorescent Blood pCO_2 Sensor with No Direct Blood–Fluorophore Contact: Real-Time Monitoring and Comparison with a Commercial Device**
Alessia Gallerani, Alberto Ferrari, Luigi Rovati, Marco Muzzarelli, Stefano Cattini, *University of Modena and Reggio Emilia*

15:10 - 15:40	*Tecnopolo - Building 52* **COFFEE BREAK**

15:40 - 17:40 **Room:** *Sala Eventi, Tecnopolo - Building 52*
Session 3 - General Track - PART III
Chairs: Wolfgang Osten, *University of Stuttgart, Germany*
Raik Illmann, *Technische Universität Ilmenau, Germany*

15:40 **Metrological Evaluation of Multimodal 3D Camera System for Reliable Dynamic Facial Motion Analysis**
Chen Zhang, Wang Liao, Gunther Notni, Hao Chen, Hongyu Chen, Maik Rosenberger, Shiyao Gao, *Technische Universität Ilmenau*

16:00 **Investigation on Hyperspectral Augmentation to Construction Materials Classification**
Zheng Liu, Patrick Hunhold, *MFPA*, Ziran He, Galina Polte, *Technische Universität Ilmenau*, Elske Linß, *MFPA*, Janice Kielbassa, *IAB*, Maik Rosenberger, Gunther Notni, *Technische Universität Ilmenau*

16:20 **Real-Time 3D-Camera based on LiDAR and MEMS Mirrors**
Anna Angela Pomarico, Daniele Caltabiano, Giuditta Roselli, *STMicroelectronics*, Michele Norgia, *Politecnico di Milano*, Paolo Diotti, *STMicroelectronics & Politecnico di Milano*

16:40 **Portable Optoelectronic System for Personal and Environmental Radiation Monitoring**
Francesco Fienga, Vincenzo Romano Marrazzo, Andrea Irace, *University of Naples Federico II*, Salvatore Buontempo, *INFN Napoli*, Giovanni Breglio, Michele Riccio, *University of Naples Federico II*

17:00 **Investigation of a High-Reflectance Coating for Wide-Spectrum Visual Stimulation**
Giovanni Gibertoni, Luigi Rovati, Valentina Di Pinto, *University of Modena and Reggio Emilia*

17:20 **Utilization of the polymer DFB structures for metrology applications**
Sergei Ivanov, Ekaterina Musikhina, Roman Kirtaev, Aleksandr Khrebtov, Ilia Fradkin, Andrey Vyshnevyy, Ilya Radko, Aleksey Arsenin, Valentyn Volkov, *XPANCEO Research On Natural Science L.L.C., UAE*

Technical Program - Tuesday, September 2

08:30 - 16:00	*Tecnopolo - Building 52* **REGISTRATIONS**

09:00 - 10:20	**Room:** *Sala Eventi, Tecnopolo - Building 52* **Session 4 - Latest advancements in optical sensing and measurement systems for industrial, biological, and environmental applications - PART I** **Chairs:** Valentina Bello, *University of Pavia, Italy* Leonardo Bianchi, *Politecnico di Milano, Italy*

09:00 **A compact and high productive shearography system for inspection of composite coatings applied on metal pipes**
Gabriel de Oliveira, Daniel Willemann, Armando Albertazzi G. Jr., *Universidade Federal de Santa Catarina, Brasil*

09:20 **Resin traces as indicators of bark beetle activity: A hyperspectral approach using extended SWIR analysis**
Martin Richter, Gunther Notni, Maik Rosenberger, *Technische Universität Ilmenau*

09:40 **Microplastic imaging and its classification in marine animals using RGB polarization camera**
Yukitoshi Otani, Jessica Onaka, Nathan Hagen, Ryuto Hakoda, *Utsunomiya University*

10:00 **Robot-assisted monitoring of the health of young trees**
Benjamin Simon, Christina Junger, Gunther Notni, Martin Richter, Richard Fütterer, *Technische Universität Ilmenau*

10:20 - 10:50	*Tecnopolo - Building 52* **COFFEE BREAK**

10:50 - 12:10	**Room:** *Sala Eventi, Tecnopolo - Building 52* **Session 5 - Latest advancements in optical sensing and measurement systems for industrial, biological, and environmental applications - PART II** **Chairs:** Valentina Bello, *University of Pavia, Italy* Giovanni Gibertoni, *University of Modena and Reggio Emilia, Italy*

10:50 **Characterization of the morpho-chemical features of cancer cells by a multimodal optical approach**
Leonardo Bianchi, *Politecnico di Milano*, Arianna Bresci, Koseki J. Kobayashi-Kirschvink, *Massachusetts Institute of Technology*, Gabriela Paroni, *Istituto di Ricerche Farmacologiche Mario Negri*, Paola Saccomandi, *Politecnico di Milano*, Peter T. C. So, Jeon Woong Kang, *Massachusetts Institute of Technology*

11:10 **Inverse Triangulation with Spatiotemporal Correlation using a Variable Pseudo-Random Pattern Projector for 3D Stereo Measurement**
Daniel Regner, João Andrade, Moacir Wendhausen, Alice Bilbao, Tiago Loureiro Figaro da Costa Pinto, Armando Albertazzi G. Jr., *Universidade Federal de Santa Catarina*

11:30 **Real-framework comparison of optical fiber distributed sensing techniques for Building Information Modeling**
Massimo Olivero, Giuseppe Rizzelli, Chiara Bellezza Prinsi, Saverio Pellegrini, Antonino Quattrone, Francesco Tondolo, Donato Sabia, Guido Perrone, Roberto Gaudino, *Politecnico di Torino*

11:50 **Is AI superior to multimodal 3D sensor technology for transparent objects?**
Christina Junger, Benjamin Simon, Gunther Notni, *Technische Universität Ilmenau*

12:10 - 13:10	*Tecnopolo - Building 52* **LUNCH**

13:10 - 14:10	**Room:** *Sala Eventi, Tecnopolo - Building 52* **Session 6 - Latest advancements in optical sensing and measurement systems for industrial, biological, and environmental applications - PART III** **Chairs:** Leonardo Bianchi, *Politecnico di Milano, Italy* Daniele Goldoni, *University of Modena and Reggio Emilia, Italy*

13:10 **AI-Enhanced Speckle Pattern Imaging for Assessing Milk Authenticity**
Valentina Bello, Irene Bassi, *University of Pavia*, Cristina Nuzzi, Simone Pasinetti, *University of Brescia*, Sabina Merlo, *University of Pavia*

13:30 **Evaluation of an approach to determine the diameter at breast height of forest trees using the goSCOUT3D handheld scanner in comparison to an iPhone**
Jan Dittmann, Andreas Breitbarth, Gunther Notni, *Technische Universität Ilmenau*

13:50 **Low-cost and Low-Size Interferometer for Accelerometers Replacement**
Federico Cavedo, Loredana Cristaldi, Michele Norgia, Parisa Esmaili, *Politecnico di Milano*

14:10 - 15:10 **Room:** *Sala Eventi, Tecnopolo - Building 52*
Session 7 - Neurophotonics
Chairs: Paolo Pozzi, *Politecnico di Milano, Italy*
Daniela Gandolfi, *University of Modena and Reggio Emilia, Italy*

14:10 **Advancing Neurophotonics with Time-Domain Near-Infrared Spectroscopy: From Tissue Oxygenation to Functional Brain Mapping**
Caterina Amendola, *Politecnico di Milano*

14:30 **Mapping neuronal populations with Light-Sheet Fluorescence Microscopy**
Giacomo Mazzamuto, *National Research Council, INO*, Danila Di Meo, Laura Perego, *European Laboratory for Non-Linear Spectroscopy*, Kartik Mahendra Jalal, *National Research Council, INO*, Samuel Bradley, Federica Fenizi Caria, Michele Sorelli, *European Laboratory for Non-Linear Spectroscopy*, Irene Costantini, Ludovico Silvestri, *University of Florence*, Antonietta Vilella, Martina Bodria, Michele Zoli, *University of Modena and Reggio Emilia*, Francesco Saverio Pavone, *University of Florence*

14:50 **Two-photon calcium imaging experiments to investigate the properties of neuronal microcircuits: the example of cerebellar network activity**
Marialuisa Tognolina, Egidio D'Angelo, *University of Pavia*

15:10 - 15:40 *Tecnopolo - Building 52*
COFFEE BREAK

15:40 - 17:00 **Room:** *Sala Eventi, Tecnopolo - Building 52*
Session 8 - Advancements in Optical Measurement Technologies for Intelligent Mobility
Chairs: Davide Cassanelli, *University of Modena and Reggio Emilia, Italy*

15:40 **Preview of a multimodal data set for robust and safe autonomous driving under adverse weather conditions**
Gerard de Mas Giménez, Adrià Subirana, Eduardo Bernal, *Center for Sensors, Instruments, and Systems Development*, Jordi Riu, *Beamagine S.L.,* Josep R. Casas, *Polytechnic University of Catalonia*, Pablo García-Gómez, *Beamagine S.L.*, Santiago Royo, *Center for Sensors, Instruments, and Systems Development*

16:00 **Study of Roadway Visibility as a Function of Lighting Direction**
Davide Cassanelli, Luigi Rovati, Stefano Cattini, *University of Modena and Reggio Emilia*

16:20 **Optical testing the compliance with regulatory standards of urea concentration in AdBlue®**
Carlo Anelli, Vanessa Pellicorio, Valentina Bello, Sabina Merlo, *University of Pavia*

16:40 **Dual comb ranging: methodologies, systems and applications**
Guanhao Wu, Liheng Shi, *Tsinghua University*

19:15	***GALA DINNER* - BUS DEPARTURE**

The bus will depart from the parking area indicated on the map (Pag. 9) - parking at Entrance N. 3 - at 19:15.

20:00 - 23:00	*Agriturismo Lambruscheria Ca'Berti - Castelvetro di Modena* **GALA DINNER**

Technical Program - Wednesday, September 3

09:30 - 12:00	*Tecnopolo - Building 52* **REGISTRATIONS**

10:00 - 11:20	**Room:** *Sala Eventi, Tecnopolo - Building 52* **Session 9 - Optical Imaging, Biometry, and Sensing for Ocular and Systemic Health** **Chair:** Marco Ruggeri, *Bascom Palmer Eye Institute - University of Miami Miller School of Medicine, Miami (USA)*

10:00 **Wearable Eye Tracking Technologies: Perspectives for Pervasive Diagnostics**
Marco Carminati, *Politecnico di Milano & INFN*, Alberto Pettenella, *Politecnico di Milano & EssilorLuxottica*, Luca Merigo, *EssilorLuxottica*

10:20 **Development and testing of a Lightweight, All-Day Glasses-Mounted Wearable: Investigating the Visual Environment in Children for Myopia Risk Assessment**
Agostino Gibaldi, Alberto Besozzi, Giovanni Gibertoni, Luigi Rovati, *University of Modena and Reggio Emilia*

10:40 **Moiré Patterns for Sensors in Contact Lenses**
Ilia Fradkin, Roman Kirtaev, Mikhail Mironov, Dmitriy Grudinin, Alexander Marchenko, Marina Chugunova, Valentyn Solovei, Alexander Syuy, Andery Vyshnevyy, Ilya Radko, Alexey Arsenin, Valentyn Volkov, *XPANCEO*

11:00 **Wide-field Optical Coherence Tomography imaging of the cornea with a hypercentric lens**
Marco Ruggeri, *Bascom Palmer Eye Institute - University of Miami Miller School of Medicine*, Arthur Ho, *University of New South Wales*, Fabrice Manns, Franscesco Pozzo Giuffrida, Jean Marie Parel, Mohamed Aboushousha, Ngoc Lan Vy Truong, *Bascom Palmer Eye Institute - University of Miami Miller School of Medicine*

11:20 - 12:00	**Room:** *Sala Eventi, Tecnopolo - Building 52* **ROUND TABLE** **From Light to Insight - Optical Sensing and Metrology in Industrial Practice** **Chair:** Luigi Rovati, *University of Modena and Reggio Emilia, Italy*

PANELISTS
Maria Carmela Cardilli (*Ferrari Spa*)
Luca Ferrari (*CNH Industrial Italia Spa*)
Matteo Fabbri (*GoatAI Srl*)
Giampiero Porro (*dataMED srl*)

12:00 - 12:30	**Room:** *Sala Eventi, Tecnopolo - Building 52* **AWARDS AND CLOSING CEREMONY**

12:30 - 13:30	*Tecnopolo - Building 52* **LUNCH**

14:15	***FERRARI SpA COMPANY VISIT*** **- BUS DEPARTURE**

The bus will depart from the parking area indicated on the map (Pag. 9) - parking at Entrance N. 3 - at 14:15.

15:00 - 18:00	**FERRARI SpA COMPANY VISIT**