

## 中国光学行业最佳展示平台 China's Platform for the Photonics Community

# 慕尼黑上海光博会 LASER World of PHOTONICS CHINA

**SOLUTIONS in LIGHT** 



2014年3月18-20日 March 18-20, 2014

www.photonicschina.cn www.photonicschina.net 上海新国际博览中心 Shanghai New International Expo Centre



## 慕尼黑上海光博会欢迎您 WELCOME TO LASER World of PHOTONICS CHINA

作为亚洲最大的激光、光学、光电行业盛会,2014年慕尼黑上海光博会将于3月18-20日在上海新国际博览中心举办。从基础研究到产 业应用,慕尼黑上海光博会引领行业发展趋势,集中展示涵盖激光器与光电子、光学与光学制造、激光生产与加工技术、成像、检测 和质量控制四大板块的全方位产品内容,是不容错过的业内展会。展会致力于推动业界各分支领域的创新与商业发展,汇聚来自世界 各地科研及工业领域的专家学者,是您提升市场竞争力及寻找创新解决方案的绝佳平台。

As Asia's largest trade show for lasers, optics and photonics, LASER World of PHOTONICS CHINA 2014 will take place at Shanghai New International Expo Center on March 18 -20. From components to industrial applications, LASER World of PHOTONICS CHINA has always taken a leading role in the industry and showcased its entire spectrum in four categories: Lasers and Optoelectronics, Optics and Manufacturing Technology for Optics, Laser Systems for Production Engineering, Imaging, Optical Metrology and Quality Assurance. Dedicated to the development and innovation of all fields in the industry and the communication between researchers and experts from institutions and companies all over the world, the trade show provides you with the best platform for finding solutions in light.



#### 展示范围 Exhibit Range

- 激光器和光导发光元件 Lasers and optoelectronics
- 光学 Optics
- 光学生产技术 Manufacturing technology for optics
- 传感器、测试测量 Sensors, test and measurement
- 服务 Services

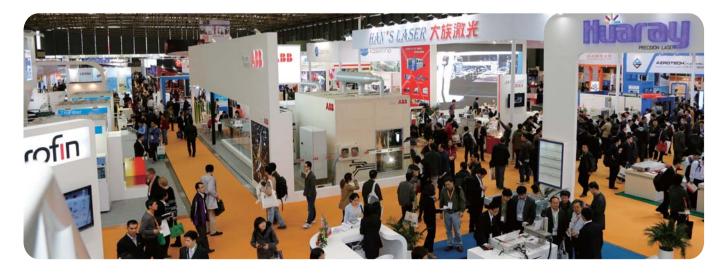
- 应用系统(按行业分) Systems by application sectors
- 激光加工系统 Laser systems for production engineering
- 光学测量和质量控制 Optical metrology and quality assurance
- 光学信息技术与光通信技术 Optical information and communication
- 生物光子学及医学工程 Biophotonics and medical engineering
- 成像技术 **Imaging**
- 照明与能源 Illumination and energy
- 安全技术 Security



#### 目标观众 Visitor Target Groups

- 光学 Optics
- 精密工程 Precision engineering
- 工具制造/机械 Tool making/Mechanical engineering
- 电机工程/电子 Electrical engineering/Electronics
- 半导体工业 Semiconductor industry

- 汽车工程 Automotive engineering
- 化学/医疗 Chemical/Medicine
- 生物技术/环境监测 Biotechnology/Environmental monitoring
- 印刷/制图 Printing/Graphics
- 资料处理/电信 Data processing/Telecommunications
- 光伏 Photovoltaic
- 航天/航空 Aviation/Aerospace
- 交通运输 Traffic and transport
- 商贸/服务 Commerce/Services
- 高等院校/研究机构 Colleges/Universities/Research institutes

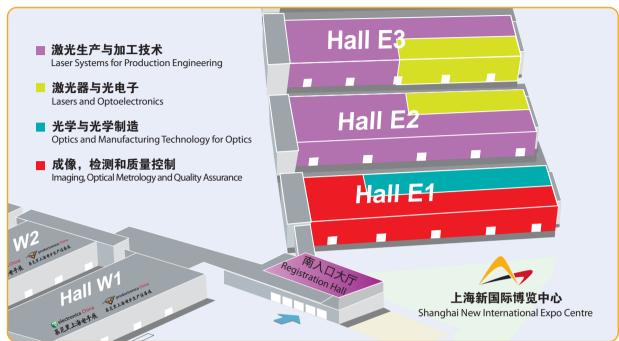


## 慕尼黑上海光博会欢迎您 WELCOME TO LASER World of PHOTONICS CHINA



## $\Rightarrow$

#### 展馆布局图 Exhibition Grounds



## 主办单位 Organizers

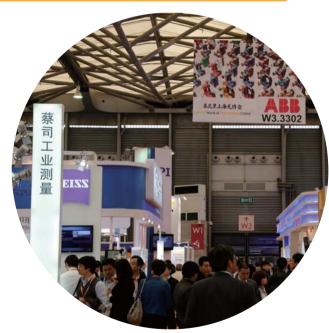
- 德国慕尼黑国际博览集团 Messe München International
- 慕尼黑展览(上海)有限公司 MMI (Shanghai) Co., Ltd.

## → 协办单位 Co-organizers

- 中国光学学会激光加工专业委员会
   Chinese Optical Society Laser Processing Committee (COS-LPC)
- 中国图象图形学学会机器视觉专业委员会 Machine Vision Professional Committee under CSIG

## ● 支持单位 Supporters

- 上海市激光学会 Shanghai Society of Laser
- 湖北省暨武汉市激光学会 Wuhan Society of Laser, Hubei
- 光电科技工业协进会 PIDA - Photonics Industry Development Association
- 武汉中国光谷激光行业协会
   Wuhan Laser Association of Optics Valley of China



- 美国激光学会 Laser Institute of America
- 德国精密机械和光学工业学会 SPECTARIS - German Hightech Industry Association
- OptecNet Competence Networks for Optical Technologies
- 美国光学学会 The Optical Society (OSA)

www.photonicschina.net 2013年6月刊 • • • ● ● ○3



## 回顾2013慕尼黑上海光博会——欣欣向荣,春意盎然

2013 in Retrospect Foretells Great Importance of Chinese Photonics Market

- 2013年展会数据 LASER World of PHOTONICS CHINA 2013 in Numbers
  - 539家展商来自18个国家和地区
     539 exhibitors from 18 countries and regions
  - 36,042名专业观众来自41个国家和地区 36,042 professional visitors and buyers from 41 countries and regions
    - 28,750平方米展示面积,相比上届增幅超过25% A historical area of 28,750 square meters, a 25% increase over last year
      - 1,810名会议听众
         1,810 conference attendees





愿意2014年再次参展 98% would participate in LASER World of PHOTONICS CHINA again in 2014.



98%

愿意推荐商业伙伴或同事参观 98% would recommend exhibiting at LASER World of PHOTONICS CHINA to business partners and associates.

部分优质观众齐聚 Visitors (excerpt)

汽车工业和OEM Automotive Industry and OEMs 中国第一汽车集团公司First Automobile Works 德尔福汽车系统(中国)投资有限公司 Delphi 博世汽 车部件(苏州)有限公司 Bosch 联合汽车电子公司 United Automotive Electronic Systems Co., Ltd. 印刷和制图 Printing Technology and Graphics 杜 邦(中国)研发管理有限公司 Dupont 中国丝网印刷行业协会 China Screen Printing Industry Association 四川虹欧显示器件有限公司 COC 德国施瓦茨 印刷有限公司上海代表处 Dynamic Systems GmbH 工具制造和机械工程 Toolmaking and Mechanical Engineering 上凯欧机械科技有限公司 K.O. Machinery Pte Co.,Ltd 首都航天机械公司 Capital Aerospace Machinery Company 昭和真空机械贸易(上海)有限公司 Showa Shinku Machinery (Shanghai) Co., Ltd. 三一汽车起重机械有限公司 SANY Mobile Cranes 电子行业 Electronics 魏德米勒电联接国际贸易(上海)有限公司 Weidmuller Interface International Trading (Shanghai) Co.,Ltd. 中芯国际集成电路制造(上海)有限公司 Semiconductor Manufacturing International 富士康电子工 业发展(昆曲)有限公司 Foxconn 村田电子贸易(上海)有限公司 半导体工业 Semiconductor Industry 宛弘自动化科技(上海)有限公司 Swan Automatin (Shanghai) Co.,Ltd 日新电机(无锡)有限公司 Nissin Electric (Wuxi) Co., Ltd. 魏德曼电力技术服务(上海)有限公司 Weidmann 中国科学技术大学 USTC 生物光子、生命科学和制药 Biophotonics, Life Sciences and Pharma 安捷伦科技贸易(上海)有限公司 Agilent 美国福禄克公司 Fluke Corporation 岛 津中国 SHIMADZU CORPORATION 上海市医疗器械检测所Shanghai Testing & Inspection Institute for Medical Devices 航空航天工业 Aerospace Industry 中航工业北京航空制造工程研究所 AVIC Aeronautical Manufacturing Technology Research Institute. 上海航空发动机制造股份有限公司 AVIC Shanghai Aero Engine Manufacturing Co., Ltd. 上海普惠飞机发动机维修有限公司 Shanghai Pratt & Whitney Aircraft Engine Maintenance Co., Ltd. 中国航空304研 Changchun University of Science and Technology 上海交通大学 Shanghai Jiaotong University 上海石油化工研究院 Shanghai Research Institute of Petrochemical Technology 船舶 Shipbuilding 中船重工704所 China Shipbuilding Industry Corporation 上海船舶工艺研究所 Shanghai Shipbuilding Technology Research Institute 江南造船厂JNSB 青岛前进船厂 Qingdao Ship Yard

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## 回顾2013慕尼黑上海光博会——欣欣向荣,春意盎然



2013 in Retrospect Foretells Great Importance of Chinese Photonics Market

# 观众来源(按工作性质)Visitor Structure by Function

科研 R&D	31.55%
管理 Management/Head of Company	23.50%
销售/市场 Sales/Marketing	16.82%
制造/生产 Manufacturing/Production	12.29%
采购 Finance/Accounting/Controlling	8.34%
设计Design	7.63%
工程 Engineering	4.07%
质量控制 Quality control	3.85%
学生/非就业 Pupil/Student/Not working	3.65%
其他 Other	2.21%

## 观众采购决策力 Visitors' roles in decision making

为决策者提供评估信息或推荐 Evaluate and recommend	48.50%
最终决策和审批 Final decision	25.96%
指定具体型号 Specify	13.26%
不在决策范围内 Not involved	12.27%

# 观众来源(按行业)Visitor Structure by Industry Sector

光学 Optics	36.79%
电气工程/电子/半导体 Electrical engineering/Electronics/Semiconductors	33.72%
精密工程 Precision engineering	9.59%
工具制造/电机 Tool making/Mechanical engineering	8.51%
服务 Services	7.27%
医疗/生物技术/化工/制药/环境监测 Medicine/Biotechnology/Chemical/pharmaceutical industry/Environmental monitorio	ng 6.88%
高等院校/研究机构 Colleges/Universities/ Research institutes	5.64%
光伏 Photovoltaic	5.54%
汽车工程 Automotive engineering	5.02%
交通运输 Traffic and transport	3.57%
<mark>印刷/</mark> 制图 Printing/Graphics	1.79%
数据处理/电信 Data processing/Telecommunications	1.70%
加工站 Job shops	1.67%
其他 Other	4.09%

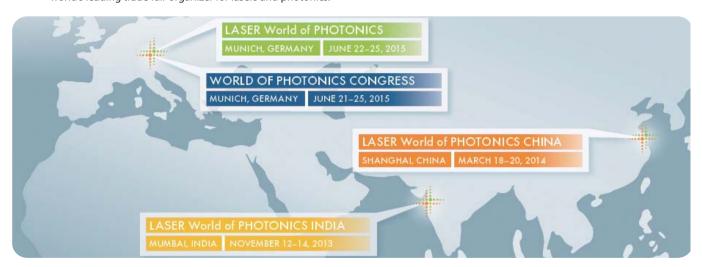
#### → 慕尼黑国际博览集团全球网络 World of PHOTONICS Network

LASER World of PHOTONICS全球系列展会及其大会是全球激光光电及其用户行业最重要的市场。他们建立起了科研与应用的桥梁,为光学技术未来的发展应用起到了促进作用。

慕尼黑国际博览集团是全球激光光电行业领先的展会主办方,在慕尼黑、上海和孟买拥有1,800名展商以及超过6.5万名观众。

The LASER World of PHOTONICS trade fairs and their congresses are the most important marketplaces and think tanks for the worldwide laser and photonics industry and its users. They also combine research and applications, and promote the use and further development of optical technologies.

With a total of 1,800 exhibitors and more than 65,000 visitors in Munich, Shanghai and Mumbai, Messe Muenchen International is the world's leading trade fair organizer for lasers and photonics.



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### 激光器与光电子 Lasers and Optoelectronics

创新性激光光源与系统组件能大幅提升制造能力,为生产精确度、质量、效率与性价比设立新的标准。慕尼黑上海光博会是您 了解行业最新趋势和全面掌握行业应用的最佳平台。

Innovative beam sources and system components expand manufacturing capabilities and set new standards in precision, quality, effectiveness and cost efficiency. LASER World of PHOTONICS CHINA is the best place to experience the latest trends and the entire range of applications.

#### ■ 部分知名展商 Exhibitors (excerpt)











FOCUSLIGHT <sup>6</sup>











Raycus



Hűaray





















#### ■ 展品类别 Exhibit Range

- 固体激光器 Solid-state lasers
- 气体激光器 Gas lasers
- 二极管激光器 Diode lasers
- 光纤激光器 Fiber lasers
- 其他激光器 Other lasers
- 激光系统元件 Laser system components
- 激光器零部件 Laser components
- 激光防护设备 Safety/protection against laser radiation

- 发光二极管 Light-emitting diodes (LEDs) and components
- 有机发光二极管 **OLEDs**
- 非相干光和发光源 Non-coherent light and radiation sources
- 电子光学 **Electro-optics**
- 声光元器件 **Acousto-optics**
- 光电管 Opto-electronic tubes
- 光电元件 Opto-electronic components

- 光学系统 Optical systems
- 光学力学 Opto-mechanics
- 激光及光学软件 Software for Laser and Optics
- 贴装和装配系统 Placement and assembly systems

陈寅飞,相干(北京)商业有限公司中国区总经理





## → 激光加工与生产技术 Laser Systems for Production Engineering

激光生产与加工系统是推动生产革新的强大动力,它能大幅提升效率,优化工艺并提高生产力。慕尼黑上海光博会为您带来行业最新资讯和趋势,是您会见激光生产技术领域供应商的理想场所。

Lasers and laser systems are considered driving forces behind innovations in manufacturing that make it possible to improve production efficiency, optimize processes and increase productivity. LASER World of PHOTONICS CHINA features all of the latest information, trends and suppliers for the use of laser technology.

#### ■ 部分知名展商 Exhibitors (excerpt)





#### ■ 展品类别 Exhibit Range

- 加工系统 Material processing systems
- 激光加工系统组件
   System peripherals of laser production engineering
- 激光辅助产品设计与系统开发
   Laser-aided product design and development systems
- 各类材料激光加工系统 Laser systems for various materials
- 其他激光应用系统
   Laser systems for various applications
- 有机印刷电子的激光生产系统
   Laser systems for production of organic and printed electronics
- 材料加工原材料
   Raw materials for material processing
- 系统整合 System integration

ABB今年是第一次参展慕尼 黑上海光博会,这是一个非常专业、 面对行业也非常广泛的展览会。而我们这几 年刚好在大力推广机器人在激光行业的应用,所 以今年毫不犹豫地选择参加这个展会。

This is the first time ABB is participating in LASER World of PHOTONICS CHINA. This is a very professional and wide-ranging trade show. ABB also happens to promote our robot application in the laser industry, so we joined in without hesitation.

---- **王华**东,上海ABB工程有限公司,机器人与应用, 焊接应用中心副经理

even Wang, Deputy Manager of ABB Robotics Welding Application Center, ABB Engineering (Shanghai) Ltd.

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## 光学与光学制造 Optics and Manufacturing Technology for Optics

光学和光学组件是所有光学技术和应用的基础,日益增强的市场竞争促使光学技术不断更新以降低生产成本,提高批处理能 力。慕尼黑上海光博会充分顺应这一趋势,为您全面展现最新光学与光学制造技术。

Optics and optical components are the foundation for all optical technologies and their applications. Competition increases, making optical technologies necessary to cut manufacturing costs and increase batch sizes. LASER World of PHOTONICS CHINA takes this development into account by showcasing manufacturing technology for optics.

#### ■ 部分知名展商 Exhibitors (excerpt)

































#### 展品类别 Exhibit Range

- 原材料 Raw materials
- 光学晶体 Crystals
- 半成品光学元件 **Processed components**
- 镜头 Optical lenses
- 衍射光学 Diffractive optics
- 光学传输元件 Optical transmission components
- 其他光学元件 Miscellaneous optical components
- 被动光学元件的辅助软件 Design software for passive optical components

- 光学生产设备 Optical manufacturing equipment for optical systems
- 光学生产加工 Optical manufacturing processes for optical systems
- 光学生产辅料 Manufacturing materials for optical systems
- 光学薄膜材料 Optical coating materials
- 其他光学生产技术 Manufacturing technology for optical systems, miscellaneous
- 粘合剂 Adhesives for optical systems

极,远远高于我们的预期。

韩定中,蔡司光学仪器(上海)国际贸易有限公司 产品支持经理



## 2014展区规划 EXHIBITION AREAS in 2014





#### 成像,检测和质量控制 Imaging, Optical Metrology and Quality Assurance

合作举办 in cooperation with



工业成像因其在提升生产效率与质量方面的突出贡献而被视为是一门非常重要与核心技术。光学感应器和激光测量与检测系统在生产、工业技术、医疗和科研领域中已不可或缺——同时它们也是保证生产质量和效率的基础。慕尼黑上海光博会将汇聚成像与检测领域的专家学者和行业用户,期待您的热情参与。

Industrial imaging is considered an important key technology because it helps to increase efficiency and quality. Optical sensors and laser-based measuring and testing systems are indispensible—and essential for quality and efficiency—in the industrial, skilled-trades, medical technology and scientific sectors. The scientific community and industrial users of imaging and optical metrology come together at LASER World of PHOTONICS CHINA.

#### ■ 部分知名展商 Exhibitors (excerpt)









































图片来源: OPTO 远心公司 Image source: OPTO Engineering SRL





The show is excellent with a lot of good exhibitors and customers. There are a wide range of industrial visitors from machine building, systems and integration as well as the scientific field.

慕尼黑上海光博会汇集了很多优秀的展商和观众。 许多应用行业的观众都悉数到场了,比如机械制 造、系统集成和科研教育等。

—— Mike Gibbons, Director of Sales & Marketing, Point Grey Research, Inc. Mike Gibbons, 北京灰点博创技术有限公司市场销售总监

#### ■ 展品类别 Exhibit Range

- 成像元件 Components
- 应用 Applications
- 图像处理 Image processing
- 显示Displays
- 监控组件 Monitor assemblies
- 显示组件 Display assemblies
- 显示元件 Display elements
- 智能相机 Smart cameras

- 板卡 Boards
- 工业镜头 Industrial Lens
- 光源Light sources
- 光学传感器 Optical sensors
- 机器视觉集成 Machine vision systems
- 设备、系统光学参量测量系统 Systems for measuring optical parameters of devices and systems
- 光学参量测量分析系统 Measurement and analysis systems for optical parameters
- 质量安全控制系统 Quality assurance systems
- 质量管理 Quality management (QM)
- 质量工作站 Quality work station
- 材料测试 Materials testing
- 质量评估软件Software for quality assessment
- 激光特性测量系统 Measurement systems for laser characterization
- 半自动化激光测试测量系统 Laser-aided test and measurement systems
- 全息测试测量系统与部件 Holographic systems and components

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## 光学技术大会 PHOTONICS CONGRESS CHINA

#### 亚洲领先的光学技术大会 Asia's leading congress for optical technologies









与慕尼黑上海光博会同期举办 Collocated with LASER World of PHOTONICS CHINA

亚洲领先光学会议PHOTONICS CONGRESS CHINA将再次与慕尼黑上海光博会同期举办。PHOTONICS CONGRESS CHINA议题丰富,主题包括激光加工、先进激光器、光学技术、红外成像技术、激光安全、光束分析等最新研发成果和进展,全面覆盖多个激光和光电子领域。大会和慕尼黑上海光博会一起将科学、研发和产业应用紧密结合,赋予科研生产更多独特的实用价值。2013年光学技术大会共吸引了1,810名听众蜂拥到场与会聆听。

Asia's leading photonics congress - PHOTONICS CONGRESS CHINA - will be held in conjunction with LASER World of PHOTONICS CHINA 2014 again. PHOTONICS CONGRESS CHINA covers several sectors in lasers and photonics. Topics range from latest research and development in laser procession, lasers, optical technology, infrared imaging technology, laser security and laser beam analysis. The combination of scientific, research and industrial applications both in the conferences and the trade fair supports the exchange between the scientific and industrial sectors and emphasizes its unique practical value. PHOTONICS CONGRESS CHINA in 2013 attracted 1,810 attendees.



#### 大会组织构架 Structure of PHOTONICS CONGRESS CHINA

#### 光学技术大会 PHOTONICS CONGRESS CHINA

2014年3月18-20日 上海新国际博览中心 18-20 MARCH 2014 Shanghai New International Expo Centre (SNIEC)

第九届国际激光加工技术研讨会 (LPC 2014)

9th International Laser Processing and Systems Conference (LPC 2014)

第九届全国激光技术与光电子 学学术会议暨"2013中国光学 重要成果及优秀产品"发布会 The 9th National Conference on Laser Technology and Optoelectronics and Release of 2013 China Optics Outstanding Achievements OSA 技术论坛 OSA Photonics Technology Program

技术培训班系列 Technical Training Courses

- 光纤激光器高级培训班 Advanced Training Course of Fiber Lasers
- 红外成像技术与应用高级培训班 Advanced Training Course on Infrared Imaging Technology and Its Applications
- 激光产品的安全防护认证短训班 Workshop: Laser Products safety protection Certification

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#### 第九届国际激光加工技术研讨会(LPC 2014)9th International Laser Processing and Systems Conference (LPC 2014)

#### 主办单位 Organizers:

- 中国光学学会激光加工专业委员会 Chinese Optical Society - Laser Processing Committee (COS-LPC)
- 德国慕尼黑国际博览集团 Messe München International

#### 会议议题 Topics:

- 全球激光加工市场与激光加工自动化前沿 Global Market Analysis and Development of Automated Laser Processing Technology
- 激光精密制造及应用
   Laser Precision Machining and Application

- 美国激光学会 Laser Institute of America (LIA)
- 激光宏观加工技术与应用 Laser Macro Processing and Application
- 先进激光器的最新进展与应用 Latest Developments and Applications of Lasers



## 光学技术大会 PHOTONICS CONGRESS CHINA

#### 主办单位 Organizers:

- 中国科学院上海光学精密机械研究所 Shanghai Institute of Optics and Fine Mechanics (SIOM)
- 德国慕尼黑国际博览集团 Messe München International (MMI)
- 《中国激光》杂志社 Chinese Laser Press

#### 会议议题 Topics:

- 激光器与激光光学 Lasers and laser optics
- 激光应用 Laser application
- 红外技术 Infrared technology
- 光电子学与其他应用 Optoelectronics and other applications



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美国光学学会 The Optical Society (OSA)

- 德国慕尼黑国际博览集团
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《八隔全国激光技术与光电子学学术会》 卷 "2012中国光学审赛成果"发布会

#### 同期会议 Accompanying Program at Trade Fair

中国(上海)国际机器视觉技术及工业应用研讨会 China (ShangHai 2014) Machine Vision Technology & Application Conference

#### 主办单位 Sponsors:

- 中国图象图形学学会 China Society of Image and Graphics (CSIG)
- 中国图象图形学学会机器视觉专业委员会 Machine Vision Professional Committee under CSIG

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- 中国图象图形学学会机器视觉专业委员会 Machine Vision Professional Committee under CSIG
- 中国机器视觉产业联盟 CSIG Machine Vision Industry Union
- 慕尼黑展览(上海)有限公司 MMI (Shanghai) Co., Ltd.

#### 海外支持 Overseas Supporters:

- 美国自动成像协会 Automated Imaging Association (AIA)
- 欧洲机器视觉协会 European Machine Vision Association (EMVA)
- 日本工业成像协会 Japan Industrial Imaging Association (JIIA)
- 新加坡工业自动化协会
   Singapore Industrial Automation Association (SIAA)

#### 论坛主题 Conference Topics:

- 机器视觉技术在工业检测中的应用 Application of Machine Vision Technology in Electronic Industry
- 机器视觉技术最新发展趋势
   The Development Trend of China's Machine Vision Market

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