

DOA 2018 共建数字空间
开创网络新时代
D O A F o r u m
技 术 应 用 论 坛

会刊
Catalogue



会议组织

CONFERENCE ORGANIZATION

指导单位

Guidance Organizations



中华人民共和国工业和信息化部 (MIIT)

Ministry of Industry and Information Technology of
the People's Republic of China

广东省通信管理局

Guangdong Communications Administration

广东省工业和信息化厅

Department of Industry and Information Technology of Guangdong Province

工业互联网产业联盟 (AII)

Alliance of Industrial Internet

数字对象体系架构应用技术与标准促进组织 (ATSD)

DOA Application Technology & Standardization Development Organization

DONA基金会

DONA Foundation

主办单位

Host Organization



中国信息通信研究院 (CAICT)

China Academy of Information and Communications Technology

联合主办单位

Joint Organizations



国家工业信息安全发展研究中心 (CIC)

China Industrial Control Systems Cyber Emergency Response Team

北京中数创新科技股份有限公司 (CDI)

Content Digital Innovation Technology Co.,Ltd.

北京西恩多纳信息技术有限公司 (CHC)

Corporation for Handle Services in China

中国电信股份有限公司

China Telecom

支持单位

Supporting Organizations

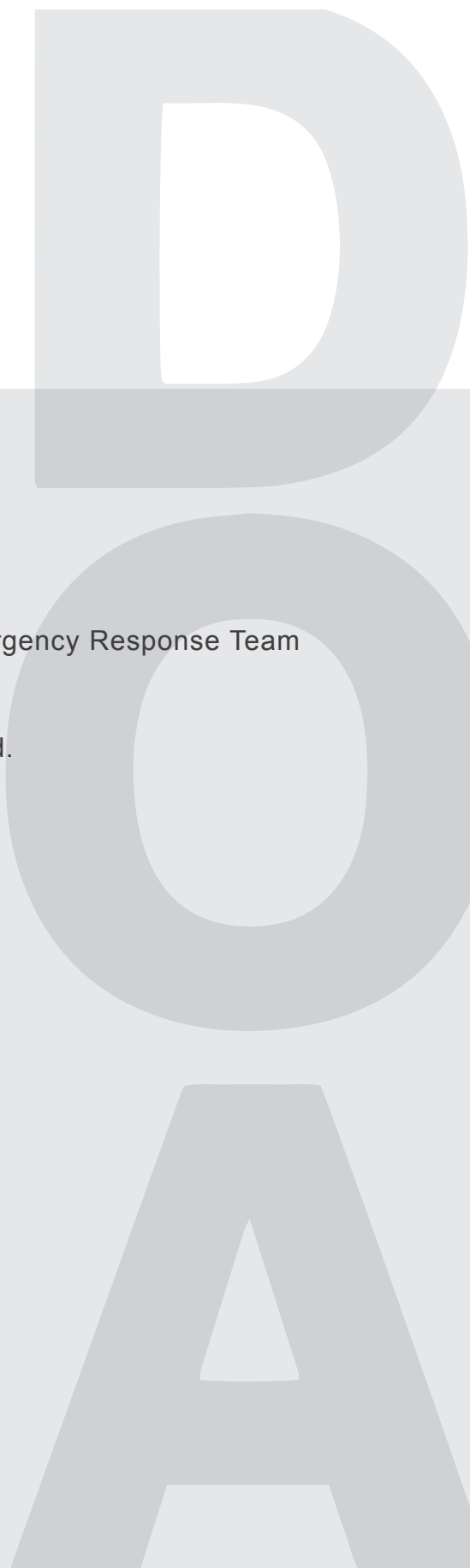


华为技术有限公司

Huawei Technologies Co.,Ltd.

中国电子技术标准化研究院

China Electronics Standardization Institute



目录

CONTENTS

会议日程
FORUM
AGENDA

1
01

演讲嘉宾
GUEST
SPEAKERS

2
11

DOA及Handle
基本情况简介
BRIEF INTRODUCTION
TO DOA AND HANDLE

3
33

酒店信息
HOTEL
INFORMATION

4
35

共建数字空间
开创网络新时代

Building a Digital Space together,
Moving towards a New Internet Era

2018 DOA技术应用论坛议程

FORUM AGENDA

培训讲座：DOA技术与实现

Subject: DOA Application Development

时间：11月29日（星期四）13:30-17:15

Date: Nov. 29, 2018 (Thursday) 13:30 - 17:15

地点：深圳富临大酒店（三层华龙殿）

Location: Best Western Shenzhen Felicity Hotel
(3rd Floor, Dragon Room)

时间 Time	内容 Content	嘉宾 Guest Speaker
13:30-14:00	签到 Sign-in	
14:00-14:10	开班致辞 Opening Remark	李海花 中国信息通信研究院标识管理中心 副主任 Haihua Li Deputy Director, Industrial Internet Identifier Administration Center, China Academy of Information and Communications Technology (CAICT)
14:10-14:30	DOA的概念与内涵 DOA – A Developer's Perspective	孙洵 ATSD执委会主席、DONA技术总监 Sam X. Sun Chair, ATSD Steering Committee, Director, Standards and Technology Development, DONA Foundation
14:30-15:00	Handle 开发速成平台 Handle Bridge – A Platform for Developers	Vicknesh Supramaniam 国际电信联盟 (ITU) Vicknesh Supramaniam ITU Consultant

时间 Time	内容 Content	嘉宾 Guest Speaker
15:00-15:30	基于EPP的标识注册分配系统实现 A Prefix Registration and Management System Based on EPP	谢家贵 中国信息通信研究院标识管理中心 副总工 Jiagui Xie Deputy Chief Engineer, Industrial Internet Identifier Administration Center, CAICT
15:30-15:50	茶歇 Coffee Break	
15:50-16:30	共享软件管理工具 Handle API Handle System Development Toolkit API	高澜 北京中数创新科技股份有限公司 基础平台部 经理 Lan Gao Platform Manager, Content Digital Innovation Technology Co.,Ltd.
16:30-17:00	DOIP（数字对象接口协议）协议2.0介绍： DOA核心协议 Introduction to the Digital Object Interface Protocol Version 2.0: A Core Protocol of DOA	Chritophe Blanchi DONA执行总监 Christophe Blanchi Executive Director, DONA Foundation
17:00-17:15	小结 Summary	李海花 中国信息通信研究院标识管理中心 副主任 HaiHua Li Deputy Director, Industrial Internet Identifier Administration Center, CAICT
18:00--	晚餐 Dinner	

DOA技术应用论坛

DOA Forum: Main Sessions

时间：11月30日-12月1日（星期五全天、星期六上午）

Dates: Nov. 30, 2018 – Dec. 1st

地点：深圳富临大酒店（三层华富殿）

Location:Best Western Shenzhen Felicity Hotel
(3rd Floor, Imperial Room)

主题大会：DOA技术应用论坛 11月30日(星期五) 上午，9:00-11:45 DOA Forum: Friday 30/Nov/2018 Morning Session:(9:00 -11:45) 主持人：刘越 中国信息通信研究院标识管理中心 副总工 Host: Yue Liu Deputy Chief Engineer, Industrial Internet Identifier Administration Center, China Academy of Information and Communications Technology (CAICT)

开幕式 Opening Session

时间 Time	内容 Content	嘉宾 Guest Speaker
09:00-9:05	介绍参会领导与嘉宾 Introduction	主持人：刘越 Host: Yue Liu
09:05-9:25	领导致辞 Opening Remark	工业和信息化部领导 Ministry of Industry and Information Technology of the People's Republic of China 广东省通信管理局领导 Department of Industry and Information Technology of Guangdong Province 广东省工业和信息化厅领导 Guangdong Communications Administration
09:25-09:30	致辞（视频） Opening Remark (video presentation)	Robert Kahn DONA主席 Robert Kahn Chair, DONA Foundation

时间 Time	内容 Content	嘉宾 Guest Speaker
09:30-09:45	主旨演讲 Keynote	高新民 DONA理事、ATSD理事会主席、中国互联网 协会副理事长 Xinmin Gao DONA Director, ATSD Board Chair,Vice Chair of the Internet Society of China
09:45-10:00	主旨演讲 Keynote	余晓晖 中国信息通信研究院 总工程师 Xiaohui Yu CTO, China Academy of Information and Communications Technology (CAICT)
10:00-10:15	主旨演讲 Keynote	Alex Ntoko 国际电信联盟（ITU）运营与规划处首席执行官 Alex Ntoko Chief of Operations and Planning, Interna- tional Telecommunications Union(ITU)
10:15-10:30	主旨演讲 Keynote	何小龙 国家工业信息安全发展研究中心 副主任 Xiaolong He Deputy Director, China Industial Control Systems Cyber Emergency Response Team
10:30-10:45	主旨演讲 Keynote	孙健 中国电信集团公司政企客户事业部 副总经理 Jian Sun Deputy Manager of Government and Enterprise Customer Relationship Division, China Telecom Group
10:45-11:00	主旨演讲 Keynote	专家待定 华为技术有限公司 HUAWEI Technologies Co., Ltd.

时间 Time	内容 Content	嘉宾 Guest Speaker
11:00-11:15	主旨演讲 Keynote	Chritophe Blanchi DONA执行总监 Christophe Blanchi Executive Director, DONA Foundation
11:15-11:30	主旨演讲 Keynote	吴东亚 中国电子技术标准化研究院信息技术研究中心 副主任 Dongya Wu Deputy Director, Information Technology Research Center, China Electronics Standardization Institute
11:30-11:45	主旨演讲 Keynote	孙洵 ATSD执委会主席，DONA技术总监 Sam X. Sun Chair, ATSD Steering Committee, Director, Standards and Technology Development, DONA Foundation
11:45-14:00		午餐 Lunch

主题大会：DOA技术应用论坛 11月30日(星期五) 下午，14:00-17:15 DOA Forum: Friday 30/Nov/2018 Afternoon Session:(14:00 -17:15) 主持人：孙洵 ATSD执委会主席，DONA技术总监 Host: Sam X. Sun, Chair, ATSD Steering Committee, Director, Standards and Technology Development, DONA Foundation		
全球典型应用案例分享（制造业领域） DOA/Handle-based Industrial Applications		
时间 Time	内容 Content	嘉宾 Guest Speaker
14:00-14:15	高速列车行业标识解析节点建设与应用 Handle-based Identifier Service for Smart-Automobile Applications	刘韶庆 中车青岛四方股份公司国家高速列车总成工程技术研究中心 副主任 Shaoqing Liu Deputy Director, CRRC Qingdao Sifang Co., Ltd.
14:15-14:30	徐工信息标识解析技术在Xrea工业互联网平台的应用实践 Handle-based Identifier Service in Xrea – An Industrial Internet Platform	赵伟 江苏徐工信息技术股份有限公司 副总经理 Wei Zhao Deputy General Manager, Jiangsu XCMG Information Technology Co., Ltd.
14:30-14:45	Handle的应用支撑 Toolkits for Platforms for Handle-based Application Development	王昆 北京中数创新科技股份有限公司 副总裁 Kun Wang Vice president, Content Digital Innovation Technology Co.,Ltd

时间Time	内容Content	嘉宾Guest Speaker
14:45-15:00	软件定义的数据开放、共享与治理 Software Defined Data Opening, Sharing, and Governance	刘讃哲 北京大学软件研究所 博士 副教授 博士生导师 青年长江学者 Xuanzhe Liu Associate Professor, Software Engineering Institute, Peking University
15:00-15:15	Handle、区块链与产品追溯——轻工业实践案例 Handle and Blockchain for Product Tracking and Management – A Practice from the Consumer Industry	邢腾飞 中国轻工业信息中心 轻工业区块链研究院执行院长 Tengfei Xing Executive Dean, Light Industry Blockchain Research Institute , China Light Industry Information Center
15:15-15:30	利用Handle提升食品全生命周期安全 Using Handle Identifiers to Increase Trust in The Food Production Lifecycle: Supply, Production and Distribution Chains.	Andrey Kolesnikov 俄罗斯物联网协会 主任 Andrey Kolesnikov Director, IoT Association (IOTAS.RU) Russia
15:30-15:45	基于DOA的互联网+电子政务应用探索 DOA-based E-government Application Exploration on Internet-plus	唐明祥 成都市软件产业发展中心 技术主管 Mingxiang Tang Technical Director, Software Industry Development Center of Chengdu City
15:45-16:00		茶歇 Coffee Break

全球典型应用案例分享（综合领域） DOA/Handle-based Applications (in general)		
时间Time	内容Content	嘉宾Guest Speaker
16:00-16:15	面向多场景下的DOA互联技术及ITU实践 DOA - Connecting Technologies from Diverse Environments - AN ITU PRACTICE	Alex Ntoko 国际电信联盟（ITU）运营与规划处首席执行官 Alex Ntoko Chief of Operations and Planning, International Telecommunications Union (ITU)
16:15-16:30	稳定、可靠、高效的DOA 骨干服务 Sustainable, Reliable, and Robust DOA Backbone Services	Tibor Kalman 德国 PIC总工 DARIAH-ERIC 联席主席 Dr. Tibor Kalman CTO, Persistent Identifier Consortium, Co-Chair of the Joint Research Committee of DARIAH-ERIC
16:30-16:45	智慧交通IoT应用案例 DOA Based Smart Traffic Management – an IoT Application	倪艳 交通运输部路网检测与应急处置中心 Yan Ni Highway Monitoring & Response Center, Ministry of Transport of the P.R.C
16:45-17:00	基于DOA和区块链 的账务系统 Casual Payroll	Clement Muhirwa 国际电信联盟（ITU）技术顾问 Clement Muhirwa International Telecommunications Union(ITU)
17:00-17:15	基于Handle的企业数字档案管理模式 Handle-based Human Resource Management System for Industry	于文钦 青岛方天科技股份有限公司 董事长 Wenqin Yu Chairman, Qingdao Fangtian Technologies Co Ltd.
18:00--		晚餐 Dinner

地点：深圳富临大酒店（一层华盛殿）

Location:Best Western Shenzhen Felicity Hotel
(1st Floor, Comucopia Room)

主题大会：DOA技术应用论坛 12月1日（星期六）上午，9:00-11:40 DOA Forum: Saturday 1/Dec/2018 Morning Session:(9:00 -11:40) 主持人：何小龙 国家工业信息安全发展研究中心 副主任 Host: Xiaolong He, Deputy Director, China Industrial Control Systems Cyber Emergency Response Team (CIC)		
DOA的发展与展望 The Development and Prospects of DOA		
时间 Time	内容 Content	嘉宾 Guest Speaker
09:00-09:15	基于Handle的工业信息安全 Industrial Information Security Based on Handle Technology	陈雪鸿 国家工业信息安全发展研究中心 保障技术所 副所长 Xuehong Chen China Industrial Control Systems Cyber Emergen- cy Response Team (CIC)
09:15-09:30	DOA 与区块链，推动信息共享 DOA & Blockchain – A Concept for Inte- roperability	Simom Noetzlin 国际电信联盟（ITU） 技术顾问 Simom Noetzlin International Telecommunications Union(ITU)
09:30-09:45	基于区块链的网络标识平行根系统介绍 A Parallel Identification Root Service Arch- itecture Based on Blockchain Technology	刘阳 中国信息通信研究院标识管理中心 副总工 Yang Liu Deputy Chief Engineer, Industrial Internet Identifi- er Administration Center, China Academy of Infor- mation and Communications Technology (CAICT)
09:45-10:00	DOA 标识技术 – 数字经济的基础服务 The Digital Object Architecture as a Basis for Identification in the era of the Digital Economy	Mahmood Al-Bahri 博士研究生，圣彼得堡大学， PJSC “Rostelecom” Mahmood Al-Bahri PhD student at St. Petersburg State University of Technology under the Basic Department of Rostelecom PJSC

时间 Time	内容 Content	嘉宾 Guest Speaker
10:00-10:15	标识解析云服务 Cloud Based Identifier Service	周骏 中国电信制造行业信息化应用（上海）基地 Jun Zhou Shanghai Ideal Information Industry(Group) Co., Ltd.
10:15-10:30	巴西互联网-标识基础设施和数据统计 The Brazilian Internet - Identifiers Infrastructure and Stats	Frederico Neves 巴西网络信息中心（NIC.br）首席技术官 Frederico Neves CTO – Brazil Network Information Center (Nic.br)
10:30-10:45	新型数字经济园区 New Digital Economic Development Zone	高振刚 MPA中国联合体联席主席、雏菊机构专家委员 会主席、北京西恩多纳信息技术有限公司董事长 Zhengang Gao Co-director, Coalition For Handle Services - China; Chairman of the Export Committee, Daisy Financial Group LLC. Chairman, Corporation for Handle Services in China (CHC)
10:45-11:30	圆桌论坛 Round Table Discussion	主持人：Alex Ntoko 国际电信联盟（ITU）运营与规划处首席执行官 论坛嘉宾：各国MPA代表 Host: Alex Ntoko Chief of Operations and Planning, International Telecommunications Union (ITU) Forum Delegate: National MPA Representative
11:30-11:40	总结 Summary	高新民 DONA理事、ATSD理事会主席、中国互联网协 会副理事长 Xinmin Gao DONA Director, ATSD Board Chair, Vice Chair of the Internet Society of China
11:40-13:30	午餐 Lunch	

演讲嘉宾

GUEST SPEAKERS

排名不分先后



Robert Kahn

DONA主席

Chair, DONA Foundation

罗伯特·卡恩先生是TCP/IP协议的共同发明者，负责了美国国防高级技术研发中心互联网计划的发起，被称为“互联网之父”。在美国国防高级技术研发中心主管信息技术部门期间，卡恩先生发起了十亿美元计算机网络技术的研发，这是有史以来美国政府支持的最大的技术开发项目。这期间，卡恩先生致力于公开网络（open network）平台的研究与开发，并定义了国家信息基础设施（National Information Infrastructure）(NII)，也就是后来大家都知道的信息高速公路（Information Super Highway）。

1986年，罗伯特·卡恩先生创立了美国国家研究和促进机构（CNRI），并一直担任总裁和主席。CNRI是一家非赢利性质的研究机构，主要致力于信息系统基础构架方面的研究和开发。

基于对互联网发展的杰出贡献，在1997年，美国总统克林顿给罗伯特·卡恩先生和他的同事温特·瑟夫先生颁发了美国国家技术勋章；在2004年，罗伯特·卡恩先生被授予“阿兰·图灵奖”，该奖项也被称作计算机行业的诺贝尔奖；在2005年，美国总统布什为他颁发了美国总统奖。

近些年来，罗伯特·卡恩先生一直致力于数字对象体系架构（Digital Object Architecture，简称DOA）理念的研究和开发。Handle System 是其中重要的组成部分。DOA体系架构为不同的信息系统互操作性提供了框架。卡恩博士也是Knowbot程序的共同发明者，Knowbot程序是网络环境中的移动软件代理。

卡恩先生还担任DONA基金董事会主席职务。DONA 基金是在瑞士注册的非营利性机构。其主要职责之一就是Global Handle Registry（GHR）的注册和管理。GHR 是DOA的一个重要组成部分。

Dr. Robert Kahn is the co-inventor of the TCP/IP protocols and was responsible for originating DARPA's Internet program, and is known as one of the "Fathers of the Internet". While serving as the Director of Information Processing Techniques Office (IPTO) at DARPA, he initiated the United States government's billion-dollar Strategic Computing Program, the largest computer research and development program ever undertaken by the federal government. Dr. Kahn conceived the idea of open-architecture networking and coined the term National Information Infrastructure (NII) in the mid 1980s, which later became more widely known as the Information Super Highway.

In 1986 Kahn founded the Corporation for National Research Initiatives (CNRI), where he is CEO, and President. CNRI is a not-for-profit organization that provides technical leadership and funds research and development of emerging information infrastructure components.

In December 1997, President Bill Clinton presented the U.S. National Medal of Technology to Kahn and his colleague, Vinton Cerf, for founding and developing the Internet. In 2004, Kahn was the recipient of the ACM Alan M. Turing award (sometimes called the "Nobel Prize of Computer Science") and in 2005 he was given the Presidential Medal of Freedom by President George Bush.

In his recent work, Dr. Kahn has been developing the concept of a Digital Object Architecture (DO Architecture), with the Handle System as a key component. The DO Architecture provides a framework for interoperability of heterogeneous information systems. Dr. Kahn is also a co-inventor of Knowbot programs, mobile software agents in the network environment.

Dr. Kahn also chairs the Board of Directors of the DONA Foundation, a non-profit organization registered in Switzerland to evolve the DO Architecture and provide overall administration of the Global Handle Registry (GHR), a key-component of the Digital Object Architecture.



Alexander Ntoko

国际电信联盟（ITU）运营与规划处首席执行官

Chief of Operations and Planning, ITU

Alexander Ntoko是国际电联运营和规划处首席执行官，他在制定和执行国际电联电信标准化部门（ITU-T）的战略行动方面发挥了关键作用。他指导基于物联网技术、大数据、人工智能技术和其他新兴技术IT解决方案的策略和实现。他协调国际电联关于数字对象体系架构（DOA）的所有活动，并在ICANN的政府咨询委员会（GAC）中担任国际电联代表。在现职之前，他是国际电联公司战略主管，他的职责包括确保全组织支持国际电联战略计划的制定、执行和评估。他协助国际电联秘书处制定政策和战略、为其提供咨询，并负责协调国际电联在互联网和网络安全等多领域的活动。在许多国际活动中，他组织并发表了关于全球信息和通信技术、政策和战略的演讲，并撰写了关于因特网、信息和通信技术和网络安全技术战略的论文。作为国际电联官员，他已经访问了大约100个国家，对信息和通信技术政策和战略有广泛的认知。他在ITU引入互联网和网络安全方面发挥了关键作用。他负责发展中国家关于实施因特网、信息和通信技术应用(例如，电子医疗、电子政务、电子农业、电子教育、电子支付和电子商务)和网络安全方面的项目，包括使用先进的安全技术(生物认证和公钥基础设施)进行开发。他在纽约州立大学获得计算机科学学士学位和硕士学位。

Alexander Ntoko is the Chief of the Operations and Planning Department in ITU where he plays a critical role in crafting and executing the strategic movements of ITU's Telecommunication Standardization Sector (ITU-T). He directs the strategy and implementation of IT solutions based on IoT technologies, big data, AI techniques and other emerging technologies. He coordinates all ITU activities on the Digital Object Architecture (DOA) and represents ITU in ICANN's Governmental Advisory Committee (GAC). Prior to taking up his current position, he was Head of ITU Corporate Strategy where his responsibilities included ensuring organization-wide consensus and support for the development, implementation and evaluation of the ITU Strategic Plan. He assisted and advised the ITU Secretary-General in policies and strategies and was responsible for the coordination of ITU activities in many areas including Internet and cybersecurity. He has organized and spoken at many international events on a wide range of global ICT-related technologies, policy and strategies and has written papers on technology strategies for Internet, ICTs and cybersecurity. As an ITU official, he has travelled to about 100 countries and has developed a broad perspective of ICT policies and strategies. He played key role in the introduction of Internet and Cybersecurity to ITU. He has managed the implementation of projects on Internet, ICT applications (e.g., e-health, e-government, e-agriculture, e-education, e-payment and e-business) and cyber security including the use of advanced security technologies (biometric authentication and Public Key Infrastructure) in developing countries from all regions of the world. He obtained Bachelors (BSc) and Master of Science (MSc) degrees in Computer Science from the State University of New York.



高新民 Xinmin Gao

DONA理事、ATSD理事会主席、中国互联网协会副理事长

DONA Director, ATSD Board Chair, Vice Chair of the Internet Society of China

高新民，DONA创始理事，数字对象体系架构应用技术与标准促进组织（ATSD）理事会主席，中国互联网协会常务副理事长，国家信息化专家咨询委员会委员。

曾在上海交通大学就读，后留苏学习，毕业于原苏联列宁格勒加里宁工学院电机系，获硕士学位。曾在电力工业部科研单位工作，从事计算机技术在电网中的应用的研究开发工作。后任国家信息中心主任。1993年国务院国民经济信息化联席会议成立后，曾是该会议成员，也是原国务院信息化领导小组专家组成员。

Xinmin Gao completed his undergraduate at Shanghai Jiaotong University and then furthered his studies in the Soviet Union. He graduated with a Master's degree in Electrical Engineering from the Kaliningrad Institute of the then Leningrad, now Saints Petersburg. After graduation, he was employed at the China Electric Power Research Institute where he worked on the application and development of computer technology on the national power grid. He then served as the Director for the National Information Technology Center. After attending the State Department's National Economic and Information Joint Conference in 1993, XinMin became one of the original members of the State Council of Leading Experts in Information Technology.



孙洵 Sam X. Sun

ATSD执委会主席、DONA技术总监

Chair, ATSD Steering Committee, Director, Standards and Technology Development, DONA Foundation

Sam X. Sun 毕业于北京大学计算机系。现任美国国家研究发展联合会（Corporation for National Research Initiatives CNRI）技术总监（Director, Standards & Technology Development），同时兼任DONA Foundation的技术总监（Director, Standards & Technology Development），并在ATSD担任执委会主席。在此之前，他作为Handle系统的总构架师，主持了Handle系统协议的制定和开发，并在IETF主持撰写了Handle系统的标准协议RFC3560, RFC3561, 和 RFC3562. Sam X. Sun 有多年从事信息系统安全与管理的研究与应用的经验，并参与过许多关于网络信息安全，数字对象权限管理，网格计算等标准的研究，以及各种基于Digital Object Architecture（DOA）理念及handle技术的应用开发。

Sam X. Sun is the Director of Standards & Technology Development at the Corporation for National Research Initiatives (CNRI). He is also the director of Standards & Technology Development at the DONA Foundation, and was elected as the Chair of ATSD Steering Committee of ATSD in 2017. Prior to that, Mr. Sun was senior research fellow and handle system architect at CNRI, and lead the design of handle system protocol. He has participated in many standard activities in Internet security, digital rights management, and GRID computing, and is the lead author of the handle system protocol specification in IETF RFC3650, RFC3651, and RFC3652. Mr. Sun has led many international research collaborations in applying the Digital Object Architecture and the handle technology for digital library development, healthcare informatics, and Internet identify management. In recent years, Mr. Sun has been assisting Dr. Kahn in establishing the DONA Foundation, a non-profit organization registered in Switzerland to coordinate the Global Handle Registry (GHR), a key-component of the Digital Object Architecture.



余晓晖 Xiaohui Yu

中国信息通信研究院 总工程师

CTO, China Academy of Information and Communications Technology (CAICT)

余晓晖，中国信息通信研究院总工程师、工业互联网产业联盟秘书长、工信部智能制造专家咨询委员会委员、国家“互联网+”行动专家咨询委员会秘书长，国家物联网发展专家咨询委员会委员，国家战略性新兴产业发展咨询委员会委员。

上世纪90年代，主要从事通信网络仿真、网络路由技术、网络流量控制、网络优化与规划等研究开发工作，主持制定的总体技术方案在全国成功推广实施。2000年以来，主要从事通信网络技术、互联网、信息通信产业、信息化等领域的研究工作，主持了有关工业互联网、宽带、互联网、物联网、移动互联网、云计算等领域系统性研究，参与了国家相关战略、政策和规划研究起草。

Xiaohui Yu is the Chief Engineer of China Information and Communications Technology (CAICT), the Secretary General for Alliance of Industrial Internet (AII), and a member of intelligent manufacturing expert advisory committee of MIIT. He is also the Secretary General of expert advisory committee for the national Internet + action, a member of the expert advisory committee for state Internet of things development, and a member of advisory committee for national strategic emerging industries development.

In the 1990s, he was mainly engaged in the research and development of communication network simulation, network routing technology, network traffic control, network optimization and planning, and presided over the successful promotion and implementation of the overall technical scheme in the country. Since 2000, he has been engaged in the research of communication network technology, Internet, information and communication industry, information technology and other fields. He has conducted systematic research on industrial Internet, broadband, Internet, Internet of Things, Mobile Internet, cloud computing and other fields, and participated in the drafting of relevant national strategies, policies and plans.



何小龙 Xiaolong He

国家工业信息安全发展研究中心 副主任

Deputy Director, China Industrial Control Systems Cyber Emergency Response Team

何小龙，高级工程师，国家工业信息安全发展研究中心副主任，区块链技术与数据安全工业和信息化部重点实验室主任。长期从事工业和信息化领域科技、质量、品牌方面工作，熟悉国家科技发展、质量品牌方面的政策、规划和行业管理。近年来，从事工业信息安全，数字化转型和两化融合的理论与技术研究，先后主持工信部、中央网信办多项工业信息安全，大数据和工业互联网等方面研究课题。

Xiaolong He, Senior Engineer, Deputy Director of the China Industry Control Systems Cyber Emergency Response Team. He is also the director of the Blockchain Technology and Industrial Data Security, and Ministry of Industry and Information Main Laboratories. Xiaolong has worked for a long time in industry and technology; particularly within quality control, branding, science and technical development on a national level, and industrial planning and management. In recent years he has focused on IT security and digital evolution, and research in the integration of these two fields. He has presided over research topics on IT security, big data and the industrial internet for the Ministry of Information Technology and Central Cyberspace Affairs Commission.



高振刚 Zhengang Gao

**MPA中国联合体联席主席、雏菊机构专家委员会主席
北京西恩多纳信息技术有限公司董事长**

Co-director, Coalition For Handle Services – China
Chairman of the Export Committee
Daisy Financial Group LLC. Chairman
CEO Corporation for Handle Services in China (CHC)

高振刚，DONA全球MPA中国联合体联席主席、北京西恩多纳信息技术有限公司董事长、数字对象体系架构应用技术与标准促进组织（ATSD）理事兼执委会副主席、新互联网发展促进会会长、中国工业环保促进会执行副会长、雏菊机构专家委员会主席、《中国资管评论》主编、研究员等。

1984年7月毕业于南京大学地球科学系，获理学学士学位。1987年7月毕业于中国科技大学研究生院和国家地震局地质研究所，获理学硕士学位。先后担任国务院发展研究中心咨询研究员、副研究员，山东省日照市政府市长助理、副市长，中国工业经济联合会信息委员会总干事、研究员等。兼任全国青联委员、中央国家机关青联委员、国务院国资委高级职称评审委员会委员、中国世界贸易组织研究会副秘书长、日本国环境厅环境科学研究所客座研究员、中国管理科学研究院教授、中国可持续发展研究会常务理事等。

Prof. Zhengang Gao, Co-director of the Coalition for Handle Services – China (ETIRI, CDI and CHC), CEO of the Corporation for Handle Services in China(CHC) ,Board Member & deputy Chair of DOA Application Technology & Standardization Development Organization (ATSD) Committee, President of the New Internet Development and Promotion Foundation), Executive Vice President of the China Council for Industrial Environmental Protection (CIEP) ,Chairman of the Export Committee of Daisy Financial Group LLC., Editor-in-chief of China Asset Management Review.

In July 1984 Zhengang Gao graduated with a Bachelor of Science from the Nanjing University department of Earth Science. IN 1987 he graduated from the University of Science and Technology of China graduate school and Institute of Geology, China Earthquake Administration, with a master's degree. Zhengang Gao has served as a Development Research Center of the State Council Research Consultant and Research Associate, Shandong Province Rizhao City Mayoral Assistant and Deputy Mayor, China Federation of Industrial Economics Information Committee Director General. He is also a member of the State-owned Assets Supervision and Administration Commission of the State Council Senior Titles Review Committee, Deputy Secretary General of China World Trade Organization Research Association, Guest Research Fellow of the Japan Environment Agency Institute of Environmental Science, Professor of the Chinese Academy of Management, and the China Sustainable Development Research Association Executive Director.



孙健 Jian Sun

中国电信集团公司政企客户事业部 副总经理

Deputy Manager of Government and Enterprise Customer Relationship Division, China Telecom

孙健博士，现任中国电信集团公司政企客户事业部副总经理，同时兼任中国电信集团公司物联网运营中心总经理。

从业期间，积累了丰富的政企客户营销支撑、产品及行业应用拓展工作经验。具有多年营销技术支撑团队管理经验，对提升行业大客户的通信信息化应用和帮助客户提升价值拥有丰富的成功案例，对不同行业的信息化发展及物联网技术与应用发展有广泛的认识和经验。

Dr Sun Jian, is the deputy general manager of China Telecom's Government, Business, and Client Project Department as well as the General Manager for the IoT Operations Center at China Telecom. During his career he has accumulated extensive experience in the development of applications for marketing support, production and industry. He has had much success in enhancing communication between enterprise and their customers through applications as well as developing IoT applications in different industries.



Mahmood Al-Bahri

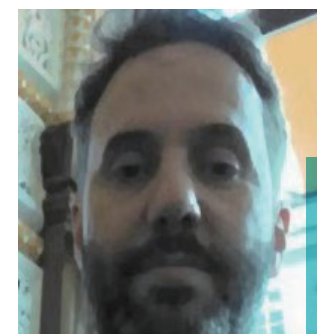
博士研究生，圣彼得堡大学，PJSC “Rostelecom”

PhD student at St. Petersburg State University of Technology under the Basic Department of Rostelecom PJSC

Mahmood Said Nasser Al-Bahri (国籍: 阿曼)，圣彼得堡州立理工大学博士生，隶属于Rostelecom PJSC基础部，与PJSC “Rostelecom” 进行联合研究。他的研究对象是：“数字经济时代作为标识基础的数字对象体系架构”。联合研究结果已在2018年7月23日举行的“Global approaches on combating counterfeiting”研讨会上发表(<https://www.itu.int/en/ITU-T/Workshops-and-Seminars/20180723/Pages/default.aspx>)，同时在研讨会上提出了基于DOA技术的手机识别方法。

Mahmood Said Nasser Al-Bahri (Nationality: Oman)

PhD student at St. Petersburg State University of Technology under the Basic Department of Rostelecom PJSC, conducting joint research with PJSC "Rostelecom". The subject of his research: "The digital object architecture as a basis for identification in the era of the digital economy." The results of joint research with PJSC "Rostelecom" were presented at a Workshop "Global approaches on combating counterfeiting" (<https://www.itu.int/en/ITU-T/Workshops-and-Seminars/20180723/Pages/default.aspx>), which took place on July 23, 2018. On the Workshop methods for identifying mobile phones based on DOA technology were presented.



Frederico Neves

巴西网络信息中心 (NIC.br) 首席技术官

CTO – Brazil Network Information Center (Nic.br)

Frederico Neves 是巴西互联网信息中心 (.br 国家域名ccTLD注册机构) 的技术总监。他从1998年开始作为该机构的技术联系人。有25年以上领导技术开发团队的经验。他从1994年开始域名技术的研发，在1997年帮助成立了巴西域名地址注册机构，并于2001年帮助成立了泛拉丁美洲和加勒比地区的域名地址注册机构。他一直活跃于IETF域名工作组，并于2002至2012年间担任ICANN SSAC的成员。

Frederico Neves is CTO of NIC.Brazil, the non-profit registry service for .br ccTLD. He is the technical contact for .br since 1998. He has more than 25 years of experience leading software development teams.

He started to get involved with the DNS protocol in 1994, led the transitions of the .br registry in 1997, of the Brazilian Internet Address registry in 1999 and of the Latin American and Caribbean Internet Address registry (LACNIC) in 2001. He has actively contributed to the IETF efforts in the areas of DNS extensions and operations, names and numbers registry provisioning and directory services. He was a member of ICANN's SSAC from 2002 to 2012.



Tibor Kálmán

德国 PIC总工 DARIAH-ERIC 联席主席

CTO, Persistent Identifier Consortium, Co-Chair of the Joint Research Committee of DARIAH-ERIC

Tibor Kálmán博士是PID联盟电子研究的首席技术官，DARIAH-ERIC联合研究委员会联合主席，以及DARIAH虚拟能力中心“电子基础设施”的联合负责人。他在德国哥廷根大学获得计算机科学博士学位，在匈牙利布达佩斯技术大学获得技术信息学硕士学位，专门研究基于IP的电信。

目前，Tibor Kálmán致力于德国GWDG的几个欧洲和国家资助项目，目的是建立各种学科的研究基础设施。他的教学活动包括分布式系统、并行计算和数据管理的理论和实践。他目前的研究集中在（1）分布式计算范式，（2）自动化系统部署，（3）研究数据管理，包括PID。

他拥有20多年的、专门针对中小企业的独立IT顾问经验。他还是DARIAH-DE指导小组的成员和DARIAH-ERIC高级管理团队的成员。他的博士论文聚焦于通过跨组织的信息交换、资源发现和服务质量监控来实现分布式研究基础设施信息系统之间的互操作性。

Dr. Tibor Kálmán is CTO of the Persistent Identifier Consortium for e-Research, Co-Chair of the Joint Research Committee of DARIAH-ERIC, as well as Co-Head of DARIAH's Virtual Competency Center 'eInfrastructure'.

He received his PhD degree in Computer Science from University of Göttingen, Germany, and his MSc degree in Technical Informatics with specialization in IP-based Telecommunication from Technical University of Budapest, Hungary.

Currently, Tibor Kálmán contributes at GWDG, Germany to several European and national funded projects with the aim to build up research infrastructures for various disciplines. His teaching activities include amongst others the theory and practice of distributed systems, parallel computing, and data management. His current research focuses on (1) distributed computing paradigms, (2) automated system deployment, and (3) research data management, including persistent identifiers.

He also has 20+ years experience as an independent IT consultant specialising in small and medium-sized enterprises.

He is also member of the Steering Group of DARIAH-DE and member of the Senior Management Team of DARIAH-ERIC.

His PhD thesis focused on achieving interoperability between information systems of distributed research infrastructures, by information exchange, resource discovery, and service quality monitoring across organizations.



谢家贵 Jiagui Xie

中国信息通信研究院标识管理中心 副总工

Deputy Chief Engineer, Industrial Internet Identifier Administration Center, China Academy of Information and Communications Technology (CAICT)

谢家贵毕业于中国科学研究生院，长期从事DNS核心（注册、解析、DNSSEC等）系统的研究与开发工作；先后在中国互联网络信息中心担任研发及架构师、中央编办事业发展中心域名系统部主任；2014年进入工业互联网领域，主要从事网络标识体系架构及其系统的研究与开发；申请发明专利20余项，在IETF发布9篇RFC草案。主持研发了具备完全自主知识产权的智能分布式标识解析系统（IDIS），可以同时支持DNS和Handle协议的标识注册及解析，并在业界获得应用。

Jiagui Xie graduated from University of Chinese Academy of Sciences and has been engaged in the research and development of DNS core system (registration, analysis, DNSSEC, etc.) for a long time. He has successively served as R&D and architect in CNNIC and the director of the domain name system Department of the CONAC. He entered the field of Industrial Internet in 2014, mainly engaged in network research and development of network identification architecture and its system; more than 20 invention patents have been applied, and 9 RFC draft papers have been published in IETF. He presided over the development of an Intelligent Distributed Identifier Resolution System (IDIS) with full independent intellectual property rights, which can support the registration and resolution of DNS and Handle protocols at the same time, and has been applied in the industry.



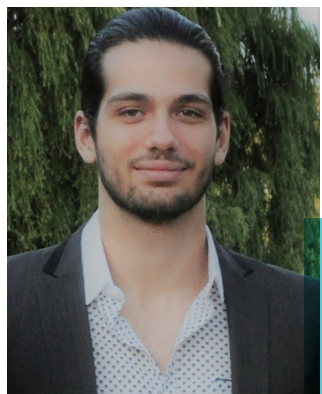
高澜 Lan Gao

北京中数创新科技股份有限公司 基础平台部 经理

Platform Manager, Content Digital Innovation Technology Co., Ltd

高澜是北京中数创新科技股份有限公司（CDI）基础平台部经理。在澳大利亚悉尼出生和长大，毕业于悉尼大学，航空（空间）工程学士。在Molonglo Synthesis Radio Telescope担任网站工程师，后迁居北京，在CDI工作开发网络应用程序。

Lan is the Primary Internet Platform Manager for Content Digital Innovation (CDI). Originally born and raised in Sydney, Australia, Lan graduated from the University of Sydney with a Bachelors of Engineering, Aeronautical (Space). After working at the Molonglo Synthesis Radio Telescope as a Site Engineer Lan moved to Beijing to work on web app development with CDI.



Simon Noetzlin

国际电信联盟（ITU）

International Telecommunications Union (ITU)

Simon Noetzlin毕业于瑞士联邦理工学院（EPFL），目前是ITU的开发人员。他正在参与扩大DOA框架的全球建设工作。他目前的工作重点是建立一个协同DOA和区块链的新概念。

Simon Noetzlin is a Communication System graduate from EPFL and is currently working for the ITU as a developer. He is taking part on the global effort to extend the DOA framework. His current work focus on the prototyping of a new concept synergizing DOA and Blockchain.



Vicknesh Suppramaniam

国际电信联盟（ITU）顾问

ITU Consultant

Vicknesh Suppramaniam, 解决方案架构师，自2011年以来一直参与数字对象体系架构工作，并与国际电联合作，计划、设计、开发和实施使用数字对象体系架构打击假冒移动设备、食品和医药的解决方案。他主要开发工具和平台，以降低不熟悉DOA的开发人员在应用程序和解决方案中的技术进入壁垒。除此之外，他还为卢旺达进行了DOA培训，介绍并帮助开发人员使用DOA。目前，他正与HandleTec Sdn.Bhd（私人实体）合作，在其他领域进一步探索和开发DOA解决方案。

Vicknesh Suppramaniam, a Solution Architect for Has been involved in Digital Object Architecture since 2011 and has worked with the ITU to plan, design, develop and implement solutions to combat counterfeit mobile devices, food and medicine using Digital Object Architecture. He primarily develops tools and platforms to lower the barrier of entry for developers unfamiliar with DOA to begin using this technology within their own applications and solutions. In addition to this, he has conducted DOA training for Rwanda to introduce and assist their developers to get started with DOA. Currently, he is engaged with HandleTec Sdn. Bhd., a private entity to further explore and develop DOA solutions in other areas.



李海花 Haihua Li

中国信息通信研究院标识管理中心 副主任

Deputy Director, Industrial Internet Identifier Administration Center, China Academy of Information and Communications Technology (CAICT)

李海花，中国信息通信研究院标识管理中心副主任。工作以来主要从事与信息通信相关的政府支撑、战略咨询、新技术跟踪研究、标准研制工作，目前聚焦工业互联网及标识解析体系相关研究与推动工作。担任有工业互联网产业联盟总体组主席，中国通信标准化协会（CCSA）工业互联网特设组(ST8)总体与应用组组长。

Haihua Li is the Deputy Director of the Industrial Internet Identifier Administration Center for the China Academy of Information and Communications Technology. Haihua has been mainly engaged in government support, strategic consulting, new technology tracking research and standard development projects in relations to information and communication. She is currently focused on research of the industrial internet and identifier resolution systems. She is the Chairman of the Industrial Internet Industry Alliance and the Team Leader for China Communications Standards Association (CCSA) Industrial Internet Group (ST8).



王昆 Kun Wang

北京中数创新科技股份有限公司 副总裁

Vice President, Content Digital Innovation Technology Co.,Ltd

现任北京中数创新科技股份有限公司副总裁，长期从事于数字信息管理系统、HANDLE体系架构的研究与开发工作。曾获得过文化部科技进步二等奖、文化部创新奖。

Wang Kun is the Vice President of Beijing Content Digital Innovation(CDI). He has a long history in the research and development of digital information management systems and applications utilizing the Handle System. Wang Kun has won the Innovation Award from the Chinese Ministry of Culture and the Technical Progress Second Prize.



刘阳 Yang Liu

中国信息通信研究院标识管理中心 副总工

Deputy Chief Engineer, Industrial Internet Identifier Administration Center, China Academy of Information and Communications Technology (CAICT)

刘阳，中国信息通信研究院标识管理中心副总工，博士。现担任中国信息通信研究院第三届专家委员会委员，工业互联网产业联盟（AII）技术与标准专家委员会副主任委员兼标识特设组主席、数字对象体系架构应用技术与标准促进组织（ATSD）执行委员会副主席、中国通信标准化协会（CCSA）工业互联网标识解析工作组组长等。

长期支撑工信部、发改委、网信办等政府部门，参与制定《深化“互联网+先进制造业”发展工业互联网的指导意见》、《工业互联网发展行动计划（2018-2020年）》等国家战略规划，牵头工业互联网与智能制造专项等国家重大科研专项和产业化项目，主持多项国家标准、行业标准制定，推动建设国家工业互联网标识解析体系、打造工业互联网产业生态。

Dr. Yang Liu is serving as the Deputy Chief Engineer of Industrial Internet Identifier Administration Center of CAICT. He is now a member of the third expert committee of the CAICT, the vice chair of the AII technology and standards expert committee and the chair of the identifier group, the vice chair of the ATSD executive committee and the leader of the working group on industrial Internet identification and analysis of CCSA.

He has long-term support for the MIIT, NDRC, CAC and other government departments. He has participated in the formulation of the national strategic plan, including "Deepening the guidance of "Internet + Advanced Manufacturing" to develop the industrial Internet" and "the Industrial Internet Development Action Plan (2018- 2020)". He has led major national scientific research projects and industrialization projects such as Industrial

Internet and Intelligent Manufacturing projects, presided over the formulation of national standards and industry standards, and promoted the construction of National Industrial Internet Identifier Resolution System and the industry ecology.



刘越 Yue Liu

标识管理中心 副总工

Deputy Chief Engineer, Industrial Internet Identifier Administration Center, China Academy of Information and Communications Technology (CAICT)

刘越，现任中国信息通信研究院互联网治理研究中心执行主任，标识管理中心副总工，高级工程师，清华大学博士。

从事信息通信领域技术和政策研究，研究方向为互联网产业、云计算、大数据、工业互联网、信息通信业监管政策、互联网治理、互联网关键资源等。承担数十项政府和企业重点课题，获中国通信学会科技二等奖一项（部级），多次担任中央电视台新闻评论节目嘉宾。

Yue Liu is currently the Executive Director of Internet Governance Research Center of CAICT, Deputy Chief Engineer of Industrial Internet Identifier Administration Center. He got Ph.D. from Tsinghua University.

He is engaged in the research of technology and policy in the field of information and communication. His research focuses on Internet industry, cloud computing, big data, industrial Internet, regulatory policy of information and communication industry, Internet governance, key resources of Internet, etc. He has undertaken dozens of key government and enterprise topics, won the second prize of Science and Technology of China Communications Society (ministry level), and has served as a guest of CCTV news commentary program for many times.



赵伟 Wei Zhao

江苏徐工信息技术股份有限公司副总经理

Deputy General Manager, Jiangsu XCMG Information Technology Co., Ltd.

赵伟，江苏徐工信息技术股份有限公司副总经理，高级技术专家，拥有近十年物联网、智能制造行业从业经验，先后发表多篇行业专业论文，获得多项发明专利，荣获中国机械联合会一等成果奖等多项奖项；参与工业大数据白皮书、工业云、智能工厂、国家两化融合管理体系等标准的起草和发布。

Zhao Wei is the Deputy General Manager of Jiangsu Xugong Information Technology Co., Ltd., He is a senior technical expert with nearly 10 years of experience in Internet of Things and Smart Manufacturing. Zhao Wei has published many professional papers in the industry, having obtained many patents, and won the China Machinery Association First-class Award among many others. He has participated in drafting and publishing standards for industrial big data white papers, industrial clouds, smart factories and the national integrated management system.



刘韶庆 Shaoqing Liu

中车青岛四方股份公司国家高速列车总成工程技术研究中心 副主任

Deputy Director, CRRC Qingdao Sifang Co., Ltd.

刘韶庆，博士，教授级高级工程师，现任中车青岛四方机车车辆股份公司国家工程研究中心副主任，中国中车资深技术专家，主要从事高速动车组研发、试验和设计等工作。先后承担“十二五”、“十三五”国家科技支撑计划、工信部、青岛市重大专项等课题6项，近年来获得发明专利10项，软件著作权2项，制定企业标准2项。

Shaoqing Liu, who has Ph.D. and the title of professor Senior Engineer, is serving as the Deputy Director of CRRC Qingdao Sifang Co., Ltd. He is senior technical expert of CRRC and mainly engaged in research and development, testing and design of high-speed trains. He undertook six projects, including the 12th Five-Year Plan and the 13th Five-Year Plan for National Science and Technology Support, the Ministry of Industry and Information Technology, and major special projects in Qingdao. In recent years, he has obtained 10 invention patents, 2 software copyrights and 2 enterprise standards.



唐明祥 Mingxiang Tang

成都市软件产业发展中心 技术主管

Technical Director, software industry development Center of Chengdu City

唐明祥，成都市软件产业发展中心大数据事业部技术主管。长期从事政务信息化相关的研究与实践，主导和参与了政务大数据、政务信息资源目录体系、政务数据共享交换等多个政务信息化基础设施建设项目。

Mingxiang Tang, Technical Lead of big data division of Chengdu Software Industry Development Center. Long engaged in the research and practice of government affairs informationization, led and participated in multiple government information infrastructure construction project, such as Government big data, government Information Resources Directory, government information sharing and exchanging.



邢腾飞 Tengfei Xing

中国轻工业信息中心 轻工业区块链研究院 执行院长

Executive Dean, Light Industry Blockchain Research Institute, China Light Industry Information Center

邢腾飞，本科与博士毕业于清华大学电子系，现任中国轻工业信息中心轻工业区块链研究院执行院长与中国轻工业防伪追溯中心副主任，致力于区块链在轻工领域重点场景（如产品追溯）中的产业应用、技术标准等研究与实践。

曾在工信部电子一所负责Handle技术研究与产业应用工作，包括基于Handle系统的婴幼儿奶粉、食盐、化肥、药品等追溯体系与行业级追溯平台的设计、实施与行业标准研制。

Dr. Xing Tengfei, majoring in EE and graduated from Tsinghua University (B.Eng. and Ph.D.), is currently the Executive Director of the Light Industry Blockchain Research Institute of China Light Industry Information Center and Deputy Director of China Light Industry Anti-counterfeiting & Traceability Center, and is committed to industrial application and technical standards research of blockchain in key scenarios (such as product traceability) in light industries.

He was with ETIRI, MIIT and engaged in technology research and industrial applications of Handle system, including the design, implementation and standardization of traceability systems and public traceability platforms for industries including infant milk powder, salt, fertilizer and pharmaceuticals, based on Handle system and DOA.



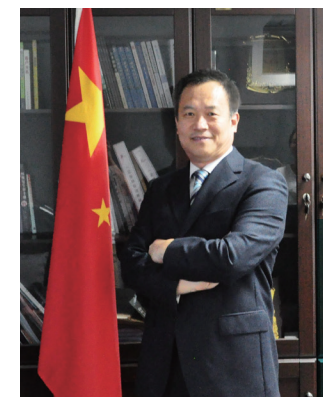
吴东亚 Dongya Wu

中国电子技术标准化研究院 信息技术研究中心 副主任

Deputy Director, Information Technology Research Center, China Electronics Standardization Institute

吴东亚，博士，高级工程师，中国电子技术标准化研究院信息技术研究中心副主任，国家OID注册中心副主任，全国信标委大数据标准工作组秘书长。具有20余年信息技术、自动化等工作经历。主导研制OID（对象标识）等国家、国际标准，负责国家OID注册中心的注册、解析、管理等服务工作，主持多项工业大数据、工业互联网领域重大项目。

Dr. Dongya Wu is a Senior Engineer and Deputy Director of the Information Technology Research Center of the China Electronic Standardization Institute, and Deputy Director of the National OID Registration Center, Secretary General of the National Identifier Committee Big Data Standards Working Group Secretary General. Dongya has more than 20 years of experience in automation, data resolution, leading development of OID(object identification), developing international standards, hosting major industrial big data projects, and managing the national OID Registration Center.



于文钦 Wenqin Yu

青岛方天科技股份有限公司 董事长

Chairman, Qingdao Fangtian Technologies Co Ltd.

于文钦1964年9月出生，籍贯山东即墨，1987年毕业于山东大学计算数学专业。高级工程师，发表学术论文6篇，专利10项。青岛方天科技股份有限公司（股票代码：870719）董事长。

曾获得：青岛市第三届青年科技创新奖，感动青岛人物提名，青岛市道德模范，青岛倍增协会会长，山东大学青岛校友副理事长，山东大学学生职业发展校友导师。

Wenqin Yu was born in September 1964 in Jimo, Shandong Province. He graduated from Shandong University in 1987 with a major in computational mathematics. Wenqin is a senior engineer, having published 6 academic papers and 10 patents. He is currently the Chairman of Qindao Fangtian Technology Co., Ltd. He is the Vice President of the Shandong University Qingdao Alumni, Shandong University Student Career Development Alumni Tutor, President of the Qingdao Beizeng Association and winner of the Third Qingdao Youth Technology Innovation, and Qingdao Moral Model Awards, and Inspiring Qingdao Figure Nominee.



陈雪鸿 Xuehong Chen

国家工业信息安全发展研究中心 保障技术所 副所长

China Industrial Control Systems Cyber Emergency Response Team (CIC)

陈雪鸿，高级工程师，国家工业信息安全发展研究中心保障技术所副所长，中国电机学会能源互联网专委会委员，中国能源研究会智能发电专委会委员，大学生网络安全尖峰训练营就业导师。网络空间安全领域从业经验25年，长期从事网络空间安全政策、标准、管理、技术的研究与实施等工作，先后牵头多项国家标准和国家发改委信息安全专项申报与建设工作。

Xuehong Chen, Senior Engineer, is the Deputy Director of Department of Security Technology, China Industrial Control Systems Cyber Emergency Response Team, the member of the China Electrical Engineering Society Energy Internet Committee and China Energy Research Association Smart Power Generation Committee, and is also the employment instructor of college student cybersecurity training camp. She has 25 years' experience in cybersecurity and has engaged in the research and practice of cybersecurity policies, standards, management and technologies. Xuehong has led a number of national standards and cybersecurity projects of National Development and Reform Commission.



倪艳 Yan Ni

交通运输部路网检测与应急处置中心

Highway Monitoring & Response Center, Ministry of Transport of the P.R.C

倪艳，计算机专业硕士，PMP，毕业于中国科学信息技术研究所（Institute of Scientific and Technical Information of China），现任职交通运输部（Ministry of Transport of the People's Republic of China）路网监测与应急处置中心。从事了近20年信息化项目建设及管理工作。承担了全国医护英语水平考试系统（METS）、全国高速公路电子不停车收费清分结算中心系统（ETC）、全国公路出行信息服务系统升级改造工程、国家公路网综合养护管理系统等多个国家级信息化项目的建设及管理工作。

Ni Yan, Master of Computer Science, PMP, graduated from the Institute of Scientific and Technical Information China. She currently works for the Ministry of Transport of the Peoples Republic of China at the Highway Monitoring and Response Center. For nearly 20 years Ni Yan has been engaged in the construction and management of information technology projects. Working on the Medical English Test System (METS), National Highway Electronic Parking Fine Settlement Center System (ETC), National Highway Travel Information System Upgrade Project, and National Highway Integrated Maintenance Management System along with other national information technology projects.



刘譞哲 Xuanzhe Liu

北京大学软件研究所 博士 副教授 博士生导师 青年长江学者

Associate Professor, Software Engineering Institute, Peking University

刘譞哲，博士，北京大学信息科学技术学院副教授，博士生导师。主要研究方向包括系统软件、大数据、云计算等。刘博士已在计算机领域国际顶级学术期刊和会议上发表学术论文 80 余篇；多次获国际会议“最佳论文奖”和国际期刊优秀论文；曾获教育部“青年长江学者”（2017年）、中国计算机学会“青年科学家奖”（2018年）、全国优秀博士学位论文提名奖（2011年）、中国计算机学会优秀博士学位论文奖（2010年）；作为核心完成人获教育部科技进步一等奖和中国电子学会迄今唯一的技术发明特等奖。

主要学术兼职包括：国际服务学会中国区主席、国际会议CollaborateCom2016和SEES2014联合主席；WWW、KDD、ICSE、CIKM、ICDCS、ICSOC等国际知名学术会议担任程序委员会成员；中国计算机学会学术工作委员会秘书、委员；中国电子学会青年科学家云计算大数据专委会秘书长。

Xuanzhe Liu is now an Associate Professor of EECS, Peking University. His research interests are focused on analyzing, engineering, and operating service-based networked software systems (such as mobility and Web), mostly from a data-driven perspective. His current projects cover the topics from measurement and performance evaluation/optimization of mobile systems/web browsers, "Big Data" analytics based AI for "real-world" large-scale user behavior/interactions, and so on. He has published over 60 referred papers on premier conferences such as WWW, ICSE, OOPSLA, MobiCom, UbiComp, EuroSys, ICDCS, and IMC, and high-impact journals such as ACM TOIS/TOIT and IEEE TSE/TMC/TSC. He received various awards including CCF-IEEE Young Scientist Award, Changjiang Scholar Program Young Scientist, and so on.



Andrey Kolesnikov

俄罗斯物联网协会 主任

Director, IoT Association (IOTAS.RU) Russia

Andrey Kolesnikov在大型跨国公司俄罗斯电信担任行政职务，有超过二十年的服务记录，他在全中国范围内实施了多个现代互联网项目。这些项目包括重载的在线平台、俄罗斯IDN国家域名.PΦ和标识国际基础设施。Kolesnikov目前担任俄罗斯物联网协会(IOTAS.RU)理事长。协会是一个专家平台，汇集了参与物联网基础设施建设和应用的俄罗斯领先公司。Andrey还是ICANN多利益相关方机构的国际专家和代表。

With more than a two decade-long record of service at executive positions in large transnational and Russian telecoms Mr.Andrey Kolesnikov has implemented a number of modern internet nationwide projects. These projects include heavy loaded online platforms, leading IDN national domain name for Russia .PΦ and international infrastructure for identifiers. Mr Kolesnikov is currently serving as Director for the Internet of Things Association(IOTAS.RU). The association is an expert platform bringing together leading Russian companies involved in IOT infrastructure construction and applications. Andrey also known as international expert and representative in ICANN stakeholder bodies.



Christophe Blanchi

DONA执行总监

DONA Executive Director

Christophe Blanchi是DONA基金会的执行董事。他负责监督全球Handle注册的管理和运营，以及促进数字对象体系架构及其相关技术的采用，如Handle系统和DOIP。

Christophe Blanchi is the Executive Director of the DONA™ Foundation. He is responsible for overseeing the management and operations of the Global Handle Registry™ as well as facilitating the adoption of Digital Object Architecture and its related technologies such as the Handle System™ and DOIP around the world.



Clement Muhirwa

国际电信联盟 (ITU)

International Telecommunications Union(ITU)

Clement Muhirwa是技术企业家和软件开发人员，获得了卢旺达大学计算机科学学位。他感兴趣的是技术如何革新金融包容性。

Clement Muhirwa: Tech entrepreneur and software developer with a computer science degree from the University of Rwanda. His interest is in how technology can revolutionize financial-inclusion.



周骏 Jun Zhou

中国电信制造行业信息化应用（上海）基地

Shanghai Ideal Information Industry(Group) Co., Ltd.

周骏 中国电信制造行业信息化应用（上海）基地 执行副总经理，首席咨询专家，工业云战略发展专家，智能制造系统资深专家，教授级高级工程师，拥有丰富的技术研发、咨询和管理经验和丰富的项目实施管理经验。多次帮助企业成功进行智能化改造。

Zhou Jun serves as the Executive Deputy General Manager, Chief Consulting Expert, Industrial Cloud Strategy Development Expert, Manufacturing System Senior Export, and Senior Engineer Prof. for China Telecom's Manufacturing Industry Information Application (Shanghai) Division. He has extensive experience in technology Research and Development, consulting and management. Zhou Jun has a plethora of project implementation management experience and has successfully helped many companies with smart transformations.

DOA及Handle基本情况简介

BRIEF INTRODUCTION TO DOA AND HANDLE

数字对象体系架构(DOA)及其核心Handle System是下一代互联网关键基础技术体系,以分层、分布式架构,具备为各类物理实体与数字对象提供全球唯一标识、信息解析、信息管理与安全控制等服务能力。DOA代表了互联网信息服务由“以服务器为主体”向“以信息为主体”演变的发展趋势,为促进跨系统、跨行业、跨部门间各种信息系统的互联互通,系统间信息的可控共享和管理奠定了坚实基础,是解决异构、异地、异主信息系统之间的数据按需交换、共享和开放等问题的关键核心技术,可有效支撑工业互联网、物联网、大数据、智慧城市等领域解决方案研制与产业创新融合发展。

DOA及其核心Handle系统由互联网奠基人、图灵奖获得者、TCP/IP协议联合发明人罗伯特卡恩(Robert Kahn)博士提出,与IPv6、DNS以及OID、Ecode等其他标识解析体系能够兼容共建。在国际治理方面,改变了当前互联网DNS体系由少数国家控制根区文件和根节点的现状,实现各方共同管理和维护解析系统根服务器和根区文件,确保国际接轨和自主可控。目前已经在全球设置九个并联、平等的根服务器,我国CIC (国家工业信息安全发展研究中心) -CDI (北京中数创新科技股份有限公司) -CHC (北京西恩多纳信息技术有限公司)联合体正式获得授权,建立首个全球Handle顶级并联根节点(中国MPA),可自主行使Handle资源的顶级管理权限。

全球许多国家积极支持Handle系统的国际合作、技术研究和产业应用,积极探索在科学数据、数字健康及医疗、智慧城市、数字出版及供应链、资源管理、食品溯源、打击假冒伪劣产品等领域研究和推广Handle体系。我国已搭建了国家物联网标识公共服务平台,在食品药品追溯、智能供应链、电子政务、智能控制等领域开展应用,产业应用水平处于国际引领地位。其产业应用的核心优势主要体现在以下几个方面:一是低成本、简单快捷,能够兼容企业现有编码和系统;二是安全、自主可控,支持数据分布式存储,无需集中上传,责任主体回归企业;三是改善了传统多系统数据集成模式中接口开发成本高的缺陷;四是信息的互联互通和共享,可实现异主、异地、异构的信息共享;五是架构灵活,柔性好,使得企业可根据个性化的需求进行动态调整,按需公开信息。

Digital Object Architecture (DOA) and its core "Handle System" are key in-frastructure technology for the next generation of the Internet. With a hierarchical and distributed architecture, it provides such services as global unique identification, information resolution, information management and security control and etc. for all types of physical entities and digital objects. DOA represents the development trend of Internet information services transferring from "server as the main body" to "information as the main body". It provides solid foundation for promoting interoperability of various information systems across systems, industries and departments. It is also the core technology to solve the problems of heterogeneous, remote and heterogeneous information systems exchange, share and open on demand, which can effectively support the solution development and industry in the fields of industrial Internet, Internet of Things, big data and smart city innovation and integration development.

DOA and its core Handle system are proposed by Dr. Robert Kahn, co-founder of the TCP / IP protocol and winner of the A.M. Turing Award. They are compatible with IPv6, DNS, OID, Ecode and other markup systems build. In terms of international governance, the current status of the Internet DNS system under the control of a few countries in the root zone files and root nodes has been changed. All parties are now required to jointly manage and maintain the root server of the resolution system and the root zone files and ensure international standards and autonomous control. At present, nine parallel and equal root servers have been set up in the world. CIC (China Industrial Control Systems Cyber Emergency Response Team), CDI (Content Digital Innovation Technology co., Ltd) and CHC (Corporation for Handle Services in China) have been officially authorized. The consortium has been formally authorized to create the first global Handle top-level parallel root node (China MAP) that can exercise its own top management authority over handle resources.

Many countries in the world actively support Handle system's international cooperation, technology research and industrial application, and actively explore the research in such fields as scientific data, digital health and medical care, smart city, digital publishing and supply chain, resource management, food traceability and combating counterfeit and sub-standard products and promote the Handle system in the above fields. China has set up a national public service platform for Internet of Things identity, which has applications in such fields as food and drug traceability, intelligent supply chain, e-government and intelligent control. The industrial application level is at the leading position in the world. The core advantages of its industrial applications mainly lie in the following areas: It is low cost, simple and quick, compatible with existing corporate coding and systems. It is safe, self-controllable, support data distributing storage, without centralized upload, the major responsibility returning to the enterprises. It helps reduce the defect that the interface development cost is high in the traditional multi-system data integration mode. The information interworking and sharing can realize the alienation, remote and heterogeneous information sharing. The architecture is flexible and changeable, which enables the company to adjust dynamically based on personalized needs and discloses the public information on-demand.



酒店信息

HOTEL INFORMATION



地点：深圳富临大酒店（深圳市罗湖区和平路1085号）

Location: Best Western Shenzhen Felicity Hotel, 1085 He-Ping Road, Shenzhen, China

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