

**Annotated  
Translation**



The following document, issued by China's Ministry of Education in 2018, announces the formation of the Ministry's Artificial Intelligence Technology Innovation Expert Group and lists all members of the group. CSET has annotated this translation with additional information about each group member, gleaned from publicly available information.

**Title**

Notice of the Office of the Ministry of Education Regarding the Establishment of the Ministry of Education Artificial Intelligence Technology Innovation Expert Group  
教育部办公厅关于成立教育部人工智能科技创新专家组的涵

**Author**

Office of the Ministry of Education

**Source**

PRC Ministry of Education website, July 26, 2018

The Chinese source text is available online at:

[http://www.moe.gov.cn/srcsite/A16/moe\\_784/201809/t20180903\\_347092.html](http://www.moe.gov.cn/srcsite/A16/moe_784/201809/t20180903_347092.html)

The source text lists only the name and position(s) of each member of the two Ministry of Education AI Technology Innovation Expert Groups. CSET has supplemented the translation with additional information (in purple) and photos from online sources. See the footnotes for citations.

**Translation Date**

March 1, 2020

**Translator**

Etcetera Language Group, Inc.

**Annotator and Editor**

Ben Murphy, CSET Translation Lead

To Education Departments (or Education Commissions) of Provinces, Autonomous Regions and Municipalities directly under the Central Government, the Education Bureau of the Xinjiang Production and Construction Corps, and Education Sections (Units) of other Departments (Bureaus) concerned, higher education institutions directly under the Ministry of Education, and all higher education institutions established jointly by the Ministry of Education and the Provinces:

In order to implement the *Notice of the Ministry of Education on Issuing the Artificial Intelligence Innovation Action Plan for Institutions of Higher Education*,<sup>1</sup> strengthen communication and exchange in the science and technology sector, education sector, and industrial sector, foster synergies between scientific and technological innovation, industrial development, and talent cultivation, and promote the development of artificial intelligence, it has been decided, following study, to establish the Ministry of Education Artificial Intelligence

<sup>1</sup> Translator's note: For a CSET-produced translation of this document, see: <https://cset.georgetown.edu/wp-content/uploads/Notice-of-the-Ministry-of-Education-on-Issuing-the-Artificial-Intelligence-Innovation-Action-Plan-for-Institutes-of-Higher-Education.pdf>

Technology Innovation Expert Group (教育部人工智能科技创新专家组; hereinafter abbreviated as the Expert Group).

### **I. The Nature of the Expert Group**

Organized under the Ministry of Education, the Expert Group shall carry out research and provide advice and guidance on promoting the artificial intelligence innovation action plans of institutions of higher learning. It is composed of an Advisory Group and a Working Group.

### **II. Main Tasks**

The main task of the Advisory Group is to offer higher learning institutions advice on policies and plans for AI talent cultivation, S&T innovation, and cooperation between industrial, academic, and research institutions; the main task of the Working Group is to undertake the routine work of the Advisory Group, and carry out special tasks and special-topic research in AI-related fields entrusted to it by the Ministry of Education.

### **III. Composition of the Expert Group**

The Advisory Group is made up of specialists and scholars from higher education institutions and corporations who have strategic thinking, practical experience, and influence in the field of artificial intelligence; the Working Group is composed of university experts who carry out innovation in AI fields and have a good foundation in practice. The Advisory Group and Working Group shall each have 1 group chief (组长) and 2 deputy group chiefs (副组长).

The term of the current Expert Group is from August 1, 2018 to December 31, 2020.

Appendix: 1. List of Experts in the Advisory Group of the Ministry of Education Artificial Intelligence Technology Innovation Expert Group

Appendix: 2. List of Experts in the Working Group of the Ministry of Education Artificial Intelligence Technology Innovation Expert Group

Office of the Ministry of Education

July 26, 2018

Appendix 1

#### **List of Experts in the Advisory Group of the Ministry of Education Artificial Intelligence Technology Innovation Expert Group**

<b>Photo</b>	<b>Name</b>	<b>Affiliation / Background</b>
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	<p>Pan Yunhe (潘云鹤)</p>	<p>Chief of the Advisory Group of the Ministry of Education Artificial Intelligence Technology Innovation Expert Group (henceforth "Advisory Group"). Academician of the Chinese Academy of Engineering (CAE). Former executive vice president (2006-2014) of CAE. Chief of the New Generation Artificial Intelligence Strategic Advisory Committee (新一代人工智能战略咨询委员会). Former (1995-2006) president of Zhejiang University. Pan, born 1946, holds a bachelor's degree in architecture (1970) from Tongji University and a master's degree in computer science (1981) from Zhejiang University. Pan's research interests include computer graphics, computer-aided design, AI, and industrial design.<sup>2</sup></p>
	<p>Gao Wen (高文)</p>	<p>Deputy chief of the Advisory Group. Former deputy director of the National Natural Science Foundation of China (国家自然科学基金). Academician of CAE. Member of the New Generation Artificial Intelligence Strategic Advisory Committee. Professor in the School of Information Science and Technology at Peking University. Former executive deputy dean (2000-2004) of the Graduate School of the Chinese Academy of Sciences (now University of Chinese Academy of Sciences [UCAS]) and concurrently (2000-2003) vice president of University of Science and Technology of China (USTC). Former (1996-2000) chief of the National High-Tech R&amp;D Program (863 Program) Intelligent Computing Expert Group (国家863智能计算机主题专家组). In 1996, Gao was designated a "youth talent" in the Chinese Academy of Sciences (CAS) "Hundred Talents Program" (百人计划). Gao, born 1956, holds a B.S. in computer science (1982) from Harbin University of Science and Technology, an M.S. in computer science (1985) and PhD in computer applications (1988) from Harbin Institute of Technology, and an additional PhD in electronics (1991) from the University of Tokyo. Gao was a visiting researcher at the University of Tokyo in 1991 and a visiting scientist at Carnegie Mellon University in 1993. Gao's research interests include AI, computer vision, pattern recognition,</p>

<sup>2</sup><https://www.cae.cn/cae/html/main/colys/25348561.html> (Chinese Academy of Engineering [中国工程院] website), accessed February 27, 2020.

		image processing, multimedia data compression, multi-modal interfaces (多模式接口), and virtual reality. <sup>3</sup>
	Zheng Nanning (郑南宁)	Deputy chief of the Advisory Group. Former president (2003-2014) of Xi'an Jiaotong University. Academician of CAE. Member of the New Generation Artificial Intelligence Strategic Advisory Committee. President of the Chinese Association of Automation (CAA). Member of the Expert Advisory Committee of Microsoft Research Asia. Former chief scientist and chair of the National 863 Program Information Technology Expert Committee. Former director of the Institute of Artificial Intelligence at Xi'an Jiaotong University. Zheng, born 1952, holds a bachelor's degree in electrical engineering (1975) and an M.E. in information and control engineering (1981) from Xi'an Jiaotong University, and a PhD in electrical engineering (1985) from Keio University in Japan. Zheng's research interests include pattern recognition, computer vision, and image processing. <sup>4</sup>
	You Zheng (尤政)	Member of the Advisory Group. Vice president of Tsinghua University. Academician of CAE. Chairman of the board of directors of the Chinese Society of Micro-Nano Technology. Member of the Central Military Commission (CMC; 中央军委) Domain Expert Committee (领域专家委员). Chairman of the National Defense Studies Department of the Science and Technology Education Committee of the Ministry of Education (教育部科技委国防学部主任委员). Member of the Science and Technology Committee (科技委委员) of the State Administration of Science, Technology and Industry for National Defense (SASTIND; 国防科工局). Chief of the Smart Manufacturing Standardization Expert Consultant Group (智能制造标准化专家咨询组组长) of the Ministry of Science and Technology (MOST). Professor in the Precision Instruments Department (精密仪器系) of Tsinghua University. You, born 1963, holds bachelor's (1985), master's (1987), and PhD (1990) degrees from Huazhong University of Science and Technology. You's research interests include micro-electro-mechanical systems (MEMS), intelligent MEMS, and their space



<sup>3</sup> <http://www.szpclab.com/about/leadership/> and <http://www.pcl.ac.cn/index.php/home/index/about/id/141.html> (Peng Cheng Laboratory [PCL; 鹏城实验室] English and Chinese websites), accessed February 27, 2020. Gao Wen is the director of PCL, a lab located in Shenzhen, Guangdong Province and funded by the Guangdong Provincial Government and the Shenzhen Municipal Government.

<sup>4</sup> <http://en.xjtu.edu.cn/info/1018/1640.htm> and <http://www.xjtu.edu.cn/jsnr.jsp?urltype=tree.TreeTempUrl&wbtreeid=1632&wbwbxjtuteacherid=597> (Xi'an Jiaotong University []) English and Chinese websites), accessed February 27, 2020.

		applications (空间应用). You oversees the design, manufacturing, launch, and operation of Chinese microsatellites, nanosatellites, and picosatellites. <sup>5</sup>
	Dong Qi (董奇)	Member of the Advisory Group. Beijing Normal University president and professor. Director of the Ministry of Education Basic Education Quality Monitoring Center (教育部基础教育质量监测中心主任). Chairman of the Academic Committee (学术委员会主任) of the State Key Laboratory of Cognitive Neuroscience and Learning (认知神经科学与学习国家重点委员会) at Beijing Normal University. Dong became a member of the Communist Party of China (CPC) in 1986. Dong, born 1961, holds bachelor's (1982) and master's (1985) degrees in psychology from Beijing Normal University, and earned an on-the-job PhD (在职攻读博士学位) from the Institute of Child Psychology at Beijing Normal University in 1988. Dong studied at Kent State University and the University of Illinois at Urbana-Champaign from 1986 to 1988 and was a visiting scholar and visiting psychologist at the University of California, Berkeley from 1994 to 1996. Dong's research interests are child and juvenile psychological development and evaluation, brain mechanisms for language and math learning, and quality monitoring and educational evaluation. <sup>6</sup>
	Fang Jiancheng (房建成)	Member of the Advisory Group. Executive vice president of Beijing University of Aeronautics and Astronautics (Beihang University), academican of the Chinese Academy of Sciences (CAS). Director of the "Inertial Technology" State-Level Key Laboratory ("惯性技术"国家级重点实验室). Chinese chairman of the board (中方理事长) of the Sino-UK (NLAA-RAL) Space Science & Technology Joint Laboratory (中英空间科学与技术联合实验室). Fang, born 1965, holds a bachelor's degree (1983) from Shandong College of Technology (山东工学院; now Shandong University), a master's degree (1988) from Xi'an Jiaotong University, and a PhD (1996) from Southeast University (东南大学). Fang's research interests include spacecraft attitude control magnetic levitation (maglev) inertial execution structures (航天器姿态控制磁悬浮惯性执行机构) and inertial navigation. Fang has designed maglev inertial moment control gyroscopes, inertial measurement systems, and inertial

<sup>5</sup> [https://www.tsinghua.edu.cn/publish/newthu/newthu\\_cnt/teacher/teacher-1-44.html](https://www.tsinghua.edu.cn/publish/newthu/newthu_cnt/teacher/teacher-1-44.html) (Tsinghua University Chinese website), accessed February 27, 2020.

<sup>6</sup> <https://www.bnu.edu.cn/xxgk/xrld/dwcw/86667.htm> (Beijing Normal University Chinese website), accessed February 27, 2020.

		position and attitude measurement systems (惯性位置姿态测量系统). <sup>7</sup>
	Mei Hong (梅宏)	Member of the Advisory Group. Vice president of Beijing Institute of Technology. Academician of CAS. Member of the New Generation Artificial Intelligence Strategic Advisory Committee. Director of the Ministry of Education Key Laboratory for High-Reliability Software Technology (高可信软件技术教育部重点实验室). Member of the Implementation Expert Group of the National Science and Technology Major Project for "Core Electronic Components, High-End General-Use Chips, and Foundational Software Products" (国家“核高基”重点科技专项). Member of the Information Technology Domain Expert Group of the 863 Program. Project chief scientist (项目首席科学家) for the National Key Basic R&D Program (973 Program; 国家973计划). Chief of the Ministry of Industry and Information Technology (MIIT) Software and Components Technology Standards Working Group (信息产业部软件构件技术标准工作组组长). Professor at Peking University, Shanghai Jiao Tong University, and Beijing Institute of Technology. Mei, born 1963, holds bachelor's (1984) and master's (1987) degrees from Nanjing Aeronautical Institute (now Nanjing University of Aeronautics and Astronautics) and a PhD (1992) from Shanghai Jiao Tong University. Mei's research interests include software engineering, system software, software development environments, (distributed) object-oriented technology, and new computer programming languages.
	Gong Ke (龚克)	Member of the Advisory Group. Former president of Nankai University. President-designate of the World Federation of Engineering Organizations. Executive director (执行院长) of the Chinese Institute of New Generation Artificial Intelligence Development Strategies (CINGAI; 中国新一代人工智能发展战略研究院). Former (2014-2017) member of the UN Secretary-General's Scientific Advisory Board. Former (2006-2011) president of Tianjin University. Former (1999-2006) vice president of Tsinghua University. Gong became a CPC member in 1981. Gong, born 1955, holds a bachelor's degree in electrical engineering (1982) from Beijing College of Technology (now Beijing University of Technology) and a

<sup>7</sup> <https://www.buaa.edu.cn/info/1544/2018.htm> (Beihang University Chinese website), accessed February 28, 2020.

<sup>8</sup> <http://www.sei.pku.edu.cn/about/people/meih> and [http://casad.cas.cn/sourcedb\\_ad\\_cas/zw2/ysxx/xxjskxb/201112/t20111213\\_3412393.html](http://casad.cas.cn/sourcedb_ad_cas/zw2/ysxx/xxjskxb/201112/t20111213_3412393.html) (Peking University and CAS Chinese websites), accessed February 28, 2020.

		PhD (1986) from Graz University of Technology in Austria. <sup>9</sup>
	Li Yuanyuan (李元元)	Member of the Advisory Group. President of Jilin University (2011-2018). Academician of CAE. President (2018-) of Huazhong University of Science and Technology. Former president of South China University of Technology. Chairman of the 7th Board of Directors of the Chinese Materials Research Society. Li is a CPC member. Li, born 1958, holds a bachelor's degree (1982) from Hunan University and master's (1987) and PhD (1988) degrees from South China University of Technology. Li is an expert in powder metallurgy and casting (粉末冶金和铸造). His research interests include powder metallurgy and non-ferrous alloy material preparation. <sup>10</sup>
	Mao Junfa (毛军发)	Member of the Advisory Group. Vice president of Shanghai Jiao Tong University. Academician of CAS. Dean of the Institute of Artificial Intelligence at Shanghai Jiao Tong University. Mao became a CPC member in 1998. Mao, born 1965, holds a bachelor's degree (1985) from National University of Defense Technology, a master's degree (1988) from the CAS Shanghai Atomic and Nuclear Research Institute (中国科学院上海原子核研究所), and a PhD (1992) from Shanghai Jiao Tong University. From 1994 to 1996, Mao conducted postdoctoral research at Chinese University of Hong Kong and the University of California, Berkeley. Mao's research interests include interconnection of high-speed electric circuits and sheathing for radio frequency (RF) electronics (射频电子封装). <sup>11</sup>

<sup>9</sup> <https://www.nankai.edu.cn/184/list.htm> (Nankai University Chinese website), accessed February 28, 2020.

<sup>10</sup> <https://www.hust.edu.cn/info/1009/2707.htm> and <http://english.hust.edu.cn/info/1097/2960.htm> (Huazhong University of Science and Technology Chinese and English websites), accessed February 28, 2020.

<sup>11</sup> <https://www.sjtu.edu.cn/jdld/20181024/85893.html> and <http://en.sjtu.edu.cn/about-sjtu/administration/mao-junfa> (Shanghai Jiao Tong University Chinese and English websites), accessed February 28, 2020.

	<p>Chen Jie (陈杰)</p>	<p>Member of the Advisory Group. President of Tongji University. Academician of CAE. Former (2014-2018) vice president of Beijing Institute of Technology. Project lead (项目首席) for the 973 Program. Member of the Science and Technology Committee of the Ministry of Education. Vice chairman of the board of directors of the Chinese Association for Artificial Intelligence (CAAI). Vice chairman of the board of directors of the Chinese Institute for Command and Control. Chen is a CPC member. Chen, born 1965, holds bachelor's (1986), master's (1996), and PhD (2001) degrees from Beijing Institute of Technology. Chen's field of research is command science and engineering. His research interests include multi-index optimization of complex systems and coordinated control of multiple intelligent entities (多智能体协同控制).<sup>12</sup></p>
	<p>Ren Youqun (任友群)</p>	<p>Member of the Advisory Group. Professor at, researcher at, and vice president of East China Normal University. In 2018, Ren was appointed to a one-year trial term as director of the Teacher Work Department of the Ministry of Education. In 2016, Ren was appointed to a two-year part-time position as a member of the Standing Committee of the Shangrao City CPC Committee in Jiangxi Province as well as vice mayor of Shangrao City. Ren is a CPC member. Ren, born 1969, earned his bachelor's degree from East China Normal University and stayed on afterward to teach. Ren's research interests include education technology, the study of science, science, technology, engineering, the arts, and mathematics (STEAM) education, course and teaching theory, and teacher education.<sup>13</sup></p>

<sup>12</sup> <https://www.tongji.edu.cn/info/1136/21221.htm> (Tongji University Chinese website), accessed February 28, 2020.



<sup>13</sup> <https://facultyold.ecnu.edu.cn/s/1076/main.jsp> (East China Normal University Chinese website) and <https://news.sina.com.cn/c/2018-12-10/doc-ihmutuec7810780.shtml> (*The Beijing News*, December 10, 2018), accessed February 28, 2020.



	<p>Lü Jian (Lyu Jian; 吕建)</p>	<p>Member of the Advisory Group. President of Nanjing University. Academician of CAS. Member of the Standing Committee of the National People's Congress (NPC). Member of the 12th National Committee (2013-2018) of the Chinese People's Political Consultative Conference (CPPCC). Member of the New Generation Artificial Intelligence Strategic Advisory Committee. Lü, born 1960, holds a bachelor's degree (1982) in computer science and a PhD (1988) from Nanjing University. Lü's research interests include software methods, foundational software theories and methods, internetware methods, and new software platforms and their applications.<sup>14</sup></p>
	<p>Wu Zhaohui (吴朝晖)</p>	<p>Member of the Advisory Group. President of and professor at Zhejiang University. Academician of CAS. Alternate member of the 19th CPC Central Committee. Wu, born 1966, holds a bachelor's degree in computer science (1988) and a PhD (1993) from Zhejiang University. From 1991 to 1993, Wu participated in a joint PhD program with the German Research Center for Artificial Intelligence (DFKI). Wu was also a visiting professor at the University of Arizona. Wu's research interests include complex services computing (复杂服务计算), ubiquitous computing (ubicomp), embedded systems, AI, cyborg intelligence (混合智能), and brain-computer interfaces (BCI).<sup>15</sup></p>
	<p>Hao Yue (郝跃)</p>	<p>Member of the Advisory Group. Former vice president of Xidian University. Academician of CAS. Delegate to the 11th NPC. Member of the 9th and 10th CPPCC. Chairman of the 13th Shaanxi Provincial Committee of the Jiu San Society [one of China's eight legal "democratic parties"]. Project lead scientist (项目首席科学家) for the 973 Program. Chief of the Implementation Expert Group of the Medium- to Long-Term Plan Outline for the "Core Electronic Components, High-End General-Use Chips, and Foundational Software Products" National Major Technology Project. Chief of the Chinese People's Liberation Army (PLA) General Armament Department Microelectronic Technology Expert Group. Vice chairman of the National Electrical and Information Science and Engineering Professional Guidance Committee. Chairman of the Board of the Shaanxi Provincial Semiconductor Industry Association. Hao, born 1958, holds a bachelor's degree in semiconductor physics and components (1982) and a PhD in computational mathematics (1991) from</p>

<sup>14</sup> <https://www.nju.edu.cn/9133/list.htm> and <https://www.nju.edu.cn/EN/80/49/c7146a163913/page.htm> (Nanjing University Chinese and English websites), accessed February 28, 2020.

<sup>15</sup> <https://person.zju.edu.cn/wuzhaohui#0> (Zhejiang University Chinese website), accessed February 29, 2020.

		Xidian University. Hao's research interests include wide bandgap semiconductor materials and components, micro and nano semiconductor components, and high-reliability integrated circuits. <sup>16</sup>
	Nie Zaiqing	Member of the Advisory Group. Head of the Beijing R&D Center of Alibaba DAMO Academy's AI Laboratory and chief scientist for DAMO Academy's speech assistant. Former head researcher (首席研究员) at Microsoft Research Asia, in charge of Microsoft's R&D work on natural language understanding and entity extraction (实体挖掘). Nie holds a bachelor's degree in computer technology (1996) and a master's degree in computer engineering (1998) from Tsinghua University, and a PhD (2004) from Arizona State University. His mentor is Professor Subbarao Kambhampati, a former president of the Association for the Advancement of Artificial Intelligence (AAAI). Nie has made contributions in the speech assistant domain, making breakthroughs on key algorithms for far-field speech recognition, natural language understanding, and individualized recommendations. <sup>17</sup>
	Wang Haifeng	Member of the Advisory Group. Chief Technology Officer at Baidu. Senior vice president and head of the Baidu AI Technology Platform System. Member of the New Generation Artificial Intelligence Strategic Advisory Committee. President of the National Engineering Laboratory for Deep Learning Technology and Applications. Adjunct professor at Harbin Institute of Technology. Former president (2013) of the Association for Computational Linguistics (ACL). Deputy director, head of the Research Department, and head researcher at Toshiba (China) R&D Center (2002-2010). Researcher at iSilk.com in Hong Kong (2000-2002). Assistant researcher at Microsoft Research Asia (1999-2000). Wang holds bachelor's (1993), master's (1996), and PhD (1999) degrees in computer science from Harbin Institute of Technology. His academic mentors were Chinese-to-English machine translation expert Li Sheng (李生) and natural language understanding and AI applications expert Zhao Tiejun (赵铁军). Wang's

<sup>16</sup> <https://web.xidian.edu.cn/yhao/> (Xidian University Chinese website) and <http://news.sciencenet.cn/htmlnews/2018/11/420394.shtml> (*China Science Daily*, November 27, 2018), accessed February 29, 2020.

<sup>17</sup> <https://damo.alibaba.com/labs/ai?lang=zh> (Alibaba DAMO Academy Chinese website) and [https://k.sina.com.cn/article\\_5710586189\\_v15460a14d02000t0vz.html](https://k.sina.com.cn/article_5710586189_v15460a14d02000t0vz.html) (Sina.com, September 4, 2019), accessed 29 February 2020.

		research interests include machine translation, natural language processing (NLP), and information retrieval. <sup>18</sup>
	Jia Jiaya (Leo Jia; 贾佳亚)	Member of the Advisory Group. General manager and professor at Tencent YouTu Lab. Founder of SmartMore, an AI company focused on industrial inspection and high-definition video. <sup>19</sup> Executive director of Tencent Security Xuanwu Lab (X-Lab). Professor at the Chinese University of Hong Kong. Visiting scholar at Adobe Systems, Inc. (2007). Adjunct researcher at Microsoft Research Asia (2004-2005). Jia holds a bachelor's degree in computer science (2000) from Fudan University and a PhD in computer science from Hong Kong University of Science and Technology and Microsoft Research Asia (2004). His dissertation advisors were Chi-Keung Tang and Harry Shum. Jia's research interests include computer vision, machine learning, and computational imaging. <sup>20</sup>
	Wang Zhuo (王卓)	Member of the Advisory Group. Vice president of iFlytek Co., Ltd. General manager of FiFEDU, a Beijing-based subsidiary of iFlytek. Deputy CEO of iFlytek Education. Wang holds a PhD from the Institute of Automation, Chinese Academy of Sciences (CASIA). <sup>21</sup>
	Pan Tianyou (Tim Pan; 潘天佑)	Member of the Advisory Group. Vice president of Microsoft Research Asia, in charge of academic and research cooperation with universities, research institutions, and governments in the Asia-Pacific region. Pan is a director (校董) of St. John's University in Taiwan. Pan holds a PhD in electrical and mechanical engineering from Washington University in St. Louis. He is an expert in information systems security (INFOSEC). <sup>22</sup>

## Appendix 2

<sup>18</sup> [http://ir.hit.edu.cn/~wanghaifeng/whf\\_cn.htm](http://ir.hit.edu.cn/~wanghaifeng/whf_cn.htm) (Harbin Institute of Technology Chinese website) and <http://research.baidu.com/People/index-view?id=116> (Baidu Research English website), accessed February 29, 2020.

<sup>19</sup>

<https://www.chinamoneynetwork.com/2020/02/28/former-head-of-tencent-x-lab-jia-jiaya-establishes-new-ai-startup> (China Money Network, February 28, 2020), accessed February 29, 2020.

<sup>20</sup> [https://www.cpr.cuhk.edu.hk/sc/press\\_detail.php?1=1&id=2693](https://www.cpr.cuhk.edu.hk/sc/press_detail.php?1=1&id=2693) (Chinese University of Hong Kong Chinese website) and [http://jiaya.me/uploads\\_file/14341124515c2f266a6687c5.77212952/cv.pdf](http://jiaya.me/uploads_file/14341124515c2f266a6687c5.77212952/cv.pdf) (Jia's English resume), accessed February 29, 2020.

<sup>21</sup> <http://fif.fifedu.com/aboutus.php?cid=3> (FiFEDU Chinese website), accessed February 29, 2020.

<sup>22</sup> <https://www.msra.cn/zh-cn/people/tim-pan> (Microsoft Research Asia Chinese website), accessed February 29, 2020.

**List of Experts in the Working Group of the Ministry of Education Artificial Intelligence  
Technology Innovation Expert Group**

Photo	Name	Affiliation / Background
	<p align="center">Wu Fei (吴飞)</p>	<p>Chief of the Working Group of the Ministry of Education Artificial Intelligence Technology Innovation Expert Group (henceforth "Working Group"). Deputy dean of the School of Computer Science and Technology at, director of the Artificial Intelligence Research Institute at, and professor at Zhejiang University. Wu holds a bachelor's degree (1996) from Lanzhou University, a master's degree (1999) from the University of Macau, and a PhD (2002) from Zhejiang University. Wu was a visiting scholar at the Department of Statistics at the University of California, Berkeley from 2009 to 2010. Wu's research interests include AI, cross-media computing (跨媒体计算), and multimedia analysis and retrieval.<sup>23</sup></p>
	<p align="center">Huang Tiejun (黄铁军)</p>	<p>Deputy chief of the Working Group. Head of the Computer Science and Technology Department at, director of the Digital Media Research Institute at, and professor at Peking University. Deputy director of the National Engineering Laboratory for Video Technology. Secretary-general of the Audio-Video Coding Standards Working Group (数字音视频编解码技术标准工作组) under MIIT. Secretary-general of the New Generation Artificial Intelligence Industry Technology Innovation Strategy Alliance (AITISA) under MOST. Professor at the School of Information Technology and Engineering at, and director of the Internet and Multimedia Research Center at, the Graduate School of the Chinese Academy of Sciences (2001-2007). Huang holds a bachelor's degree in computer applications (1992) from Wuhan Institute of Technology (now Wuhan University of Technology), a master's degree (1995) from the Text Recognition Research Group of the Department of Automation at Wuhan Institute of Technology, and a PhD (1998) from the Image Recognition and Artificial Intelligence Research Institute at Huazhong University of Technology (now Huazhong University of Science and Technology). Huang was a postdoc in the Digitization Technology Research Lab in the CAS</p>

<sup>23</sup> <https://person.zju.edu.cn/wufei/#0> (Zhejiang University Chinese website), accessed March 1, 2020.

		<p>Institute of Computing Technology Research from 1999 to 2001. Huang was a visiting professor at the Stanford Center for Image Systems Engineering in 2011. His research interests include visual information processing (image recognition and video encoding) and brain-inspired computing.<sup>24</sup></p>
	<p>Li Bo (李波)</p>	<p>Deputy chief of the Working Group. Deputy dean of the Graduate School of, and professor at, Beihang University. Member of the PLA General Armament Department "Satellite Applications Technology" Expert Group. Chief designer for a certain modeling task (某型号任务) for the General Armament Department. Expert in the Evaluation Group of the Information Technology Department of the 12th and 13th Committees of the National Natural Science Foundation of China (NSFC). Expert on the "Virtual Reality and Digital Media Technology" topic group of the 863 Program. Chief scientist for the 973 Program "Research on Theory and Methods of Digital Media Understanding" project. Director of the Beijing Municipal Key Laboratory for Digital Media. Li, born 1966, holds a bachelor's degree (1986) from Chongqing University, a master's degree (1989) from Xi'an Jiaotong University, and a PhD (1993) from Beihang University. He was a senior visiting scholar at the University of Washington in 2002. Li's research interests include digital media, image compression and transmission, video analysis and understanding, remote sensing information integration (遥感信息融合), and embedded multimedia systems. Li has worked on more than 40 projects for the 973 Program, the 863 Program, and the NSFC, including research on weapons and equipment modeling, weapons and equipment pre-research, and national defense basic research.<sup>25</sup></p>

<sup>24</sup> <http://idm.pku.edu.cn/~tjhuang/> and <http://idm.pku.edu.cn/~tjhuang/ChineseResume.html> (Huang Tiejun's Chinese-language homepage and resume page on the Peking University website), accessed March 1, 2020.

<sup>25</sup> <https://www.buaa.edu.cn/info/1569/1612.htm> (Beihang University Chinese website), accessed March 1, 2020.

	<p>Zhu Wenwu (朱文武)</p>	<p>Member of the Working Group. Deputy dean of the Computer Science Department of, deputy director of the Big Data Research Center of, and professor at, Tsinghua University. Deputy director of the Beijing National Research Center for Information Science and Technology. Deputy director of the National Engineering Laboratory for Big Data Analytics. Project chief scientist for the 973 Program. From 1996 to 2011, researcher at Bell Labs, lead researcher (主任研究员) at Microsoft Research Asia, and chief scientist and director (首席科学家兼总监) of Intel China Research Center. Zhu holds a bachelor's degree in electrical engineering (1985) from National University of Defense Technology, a master's degree in electrical and computer engineering (1993) from Illinois Institute of Technology, and a PhD in electrical and computer engineering (1996) from New York University (NYU) Polytechnic School of Engineering. Zhu's research interests include multimedia computing and network communications (网络通信).<sup>26</sup></p>
	<p>Huang Ronghuai (黄荣怀)</p>	<p>Member of the Working Group. Dean of the School of Educational Technology at, dean of the Smart Learning Institute (知识科学与工程研究所) at, and professor at, Beijing Normal University. Huang holds a bachelor's degree (1985) from Hunan Normal University, and a master's degree in mathematics (1988) and a PhD in educational technology (2000) from Beijing Normal University. Huang's research interests include multimedia network technology, online databases, basic theory of educational technology, online education, and encrypted communications.<sup>27</sup></p>


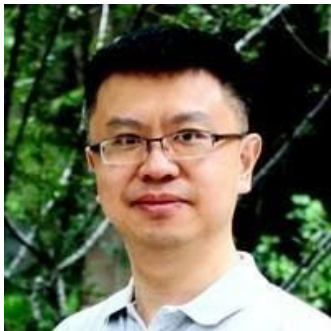
<sup>26</sup> <http://media.cs.tsinghua.edu.cn/cn/zww> (Tsinghua University Chinese website) and [https://www.tsinghua.edu.cn/publish/thunews/10303/2012/20120507151350751989599/20120507151350751989599\\_.html](https://www.tsinghua.edu.cn/publish/thunews/10303/2012/20120507151350751989599/20120507151350751989599_.html) (Tsinghua University press release, May 7, 2012), accessed March 1, 2020.

<sup>27</sup> <http://www.xhjy.com/wap.asp?act=View&id=198> (PRC "Informationalized Education" portal) and <http://fe.english.bnu.edu.cn/t003-ti-1-65-63.htm> (Beijing Normal University English website), accessed March 1, 2020.

	<p>Ouyang Dantong (欧阳丹彤)</p>	<p>Member of the Working Group. Professor at Jilin University. Ouyang has completed two projects under the 863 Program, three under the NSFC, and two for the Ministry of Education. Ouyang holds a bachelor's degree in computer science (1990), a master's degree in computer science (1993), and a PhD in computer science (1998) from Jilin University. Her master's thesis adviser was Professor Liu Xuhua (刘叙华). Her doctoral advisers were Professors Liu Xuhua and Jiang Yunfei (姜云飞). From 1999 to 2001, Ouyang conducted postdoctoral research at Jilin University under the supervision of Professor Wang Shicheng (王世称). Ouyang's research interests include AI.<sup>28</sup></p>
	<p>Liu Ting (刘挺)</p>	<p>Member of the Working Group. Director of the Research Center of Social Computing and Information Retrieval at, and professor at, Harbin Institute of Technology. Liu has served as an expert for both the 863 Program and the 973 Program, and he is currently in charge of a 973 Program project and an NSFC key project. Associate researcher at Microsoft Research Asia (1999-2000). Liu, born 1972, holds a bachelor's degree in computer science (1993) and a PhD in computer applications technology (1998) from Harbin Institute of Technology. His research interests include natural language processing and social computing.<sup>29</sup></p>
	<p>Xue Xiangyang (薛向阳)</p>	<p>Member of the Working Group. Deputy dean of the School of Computer Science and Technology at, and professor at, Fudan University. Xue is currently working on a national-level major engineering project (国家级XX重大工程项目). Xue holds a bachelor's degree in communications engineering (1989), a master's degree (1992), and a PhD (1995) from Xidian University. He conducted postdoctoral research in the School of Computer Science and Technology at Fudan University from 1995 to 1996. Xue's research interests include image, video, and multimedia content analysis, retrieval, and recommendations, video</p>

<sup>28</sup> <http://ccst.jlu.edu.cn/info/1192/2043.htm> (Jilin University Chinese website), accessed March 1, 2020.

<sup>29</sup> <http://encs.hit.edu.cn/2016/0310/c5511a145533/page.htm> and <http://homepage.hit.edu.cn/liuting?lang=en> (Harbin Institute of Technology Chinese and English websites), accessed March 1, 2020.

		surveillance, machine learning, and online streaming media. <sup>30</sup>
	Yang Xiaokang (杨小康)	Member of the Working Group. Deputy dean of the School of Electronic Information and Electrical Engineering at, deputy dean of the Institute of Image Communication and Network Engineering at, and professor at, Shanghai Jiao Tong University. Yang has led 10 national-level research projects for the 973 Program, the 863 Program, and the NSFC. Yang holds a bachelor's degree (1994) from Xiamen University, a master's degree (1997) from CAS, and a PhD (2000) from Shanghai Jiao Tong University. Yang was a research fellow at the Centre for Signal Processing at Nanyang Technological University in Singapore from 2000 to 2002. He was a research scientist at the Institute for Infocomm Research in Singapore from 2002 to 2004. Yang was a research fellow at the Institute for Computer Science at the University of Freiburg in Germany from 2007 to 2008. Yang's research interests include video encoding and communications, image processing and pattern recognition, and video analysis and retrieval. <sup>31</sup>
	Qian Weining (钱卫宁)	Member of the Working Group. Dean of the School of Data Science and Engineering at, and professor at, East China Normal University. Deputy director of the Shanghai Key Laboratory of Trustworthy Computing. Lecturer in the Department of Computer Science and Engineering at Fudan University (2004-2006). Qian holds a bachelor's degree in information science (1998), a master's degree in computer science (2001), and a PhD in computer science (2004) from Fudan University. Qian's research interests include data management systems for internet-grade applications, extensible transaction processing (可扩展事务处理), baselining and evaluation of big data management systems, and analysis,

<sup>30</sup> <http://www.emwlab.fudan.edu.cn/dd/f8/c6994a56824/page.htm> and [http://www.cs.fudan.edu.cn/en/?page\\_id=1984/](http://www.cs.fudan.edu.cn/en/?page_id=1984/) (Fudan University Chinese and English websites), accessed March 1, 2020.

<sup>31</sup> <https://icne.sjtu.edu.cn/info/1064/1078.htm> (Shanghai Jiao Tong University Chinese website), accessed March 1, 2020.



		processing, and applications for massive data (海量数据). <sup>32</sup>
	Zhou Zhihua (周志华)	Member of the Working Group. Dean of the Department of Computer Science and Technology at, dean of the School of Artificial Intelligence at, and professor at, Nanjing University. Executive deputy director of the State Key Laboratory for Novel Software Technology. Director of Learning and Mining from Data (LAMDA) under the State Key Laboratory for Novel Software Technology. Vice chairman of the Ministry of Education Guidance Committee on Instruction for Higher Education Computer Majors. Member of the Technology Supervision Expert Consultant Committee of the China Securities Regulatory Commission (CSRC). AI industry consultant to the Nanjing Municipal Government. Zhou holds a bachelor's degree (1996), master's degree (1998), and PhD (2000) from the Department of Computer Science and Technology at Nanjing University. Zhou's research interests include AI, machine learning, data mining, pattern recognition, evolutionary computation, and multimedia retrieval. <sup>33</sup>
	Wu Di (吴砥)	Member of the Working Group. Professor at Central China Normal University. Deputy director of the National Engineering Research Center for E-Learning. Executive deputy director of the Ministry of Education Educational Informatization Strategic Research Base (at Central China Normal University). Member of the Ministry of Education Expert Guidance Group on Promoting Pilot Work on the Construction of a Cadre of Artificial Intelligence Teachers. Deputy chief of the Expert Working Group of the Ministry of Education National Primary and Secondary School Teacher Information Technology Applications Upgrade Project 2.0. Member of the Project Initiation Expert Group for the Ministry of Education "Smart Education Demonstration Zone." Wu holds a B.S. (2000) from the Department of Computer Science and Technology at, and a PhD (2006) from the


<sup>32</sup> <https://facultyold.ecnu.edu.cn/s/1047/main.jspy> (East China Normal University Chinese website), [https://www.linkedin.com/in/weining-qian-b4579b15/?locale=zh\\_CN](https://www.linkedin.com/in/weining-qian-b4579b15/?locale=zh_CN) (LinkedIn), and <https://wnqian.wordpress.com/> (Qian Weining's English blog), accessed March 1, 2020.

<sup>33</sup> [https://cs.nju.edu.cn/zhouzh/zhouzh.files/resume\\_cn.htm](https://cs.nju.edu.cn/zhouzh/zhouzh.files/resume_cn.htm) and <https://cs.nju.edu.cn/zhouzh/> (Nanjing University Chinese and English websites), accessed March 1, 2020.

		<p>department of Electrical and Information Engineering at, Huazhong University of Science and Technology. Wu was a visiting scholar at the University of Cambridge from 2009 to 2010. Wu's research interests include educational informatization (教育信息化) strategy and policy, educational informatization indicators and evaluation, testing and evaluation of teacher and student information literacy, and educational informatization standards and applications.<sup>34</sup></p>
	<p>Xue Jianru (薛建儒)</p>	<p>Member of the Working Group. Professor in the Visual Cognitive Computing and Intelligent Vehicles Lab in the Institute of Artificial Intelligence and Robotics at Xi'an Jiaotong University. Chairman (主任委员) of the Cyborg Intelligence Professional Committee of the Chinese Association of Automation. Member of the board of, and vice chairman of the Vision and Big Data Professional Committee of, the China Society of Image and Graphics. Xue has led many projects for the 973 Program and NSFC. Xue holds a PhD (2003) from Xi'an Jiaotong University. He conducted cooperative research at Fuji Xerox Corporation in Japan from 2002 to 2003. Xue was a visiting professor at the University of California, Los Angeles (UCLA) from 2008 to 2009. Xue's research interests include computer vision, pattern recognition, perception and machine learning, autonomous intelligent systems, dynamic decision-making, and autonomous driving.<sup>35</sup></p>

<sup>34</sup> <http://nercel.cnu.edu.cn/info/1072/3075.htm> (National Engineering Research Center for E-Learning Chinese website) and <https://baike.baidu.com/item/%E5%90%B4%E7%A0%A5> (Baidu Baike wiki), accessed March 1, 2020.

<sup>35</sup> <http://www.gr.xjtu.edu.cn/web/jrxue> and <http://www.xjtu.edu.cn/jsnr.jsp?wbtreeid=1632&wbwbxjtuteacherid=616> (Xi'an Jiaotong University Chinese websites), accessed March 1, 2020.

	<p>Jiao Licheng (焦李成)</p>	<p>Member of the Working Group. Professor in the School of Artificial Intelligence at Xidian University. Director of the Ministry of Education Key Laboratory for Intelligent Perception and Image Understanding. Director of the International Joint Research Center for Intelligent Perception and Computing. Director of the International Joint Laboratory for Intelligent Perception and Computing. Director of the Intelligent Information Processing Innovation and Improvement Base of the Higher Education Curricula Innovation and Improvement Program (111 Program). Member of the Academic Committee of the Science and Technology Committee of the Ministry of Education. Vice chairman of the board of directors of the Chinese Association for Artificial Intelligence (CAAI). Delegate to the 8th NPC. Jiao, born 1959, holds a bachelor's degree (1982) from Shanghai Jiao Tong University and a master's degree (1984) and PhD (1990) from Xi'an Jiaotong University. From 1990 to 1992, Jiao conducted postdoctoral research at the National Lab of Radar Signal Processing at Xidian University. Jiao's research interests include pattern recognition and AI, intelligent perception of images and natural computing, and brain-inspired computing and big data.<sup>36</sup></p>
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<sup>36</sup> <https://web.xidian.edu.cn/lchjiao/> and <https://web.xidian.edu.cn/lchjiao/indexen.html> (Xidian University Chinese and English websites), accessed March 1, 2020.