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小米集团产业标准研究部总经理,集团技术委秘书长兼办公室主任,博士后工作站导 师

CCF 物联网专委会常委;

全国信息技术标准化委员会 TC28 委员;

全国信息技术标准化委员会 TC28/SC25 信息技术设备互连分委会副主任委员;

全国信息技术标准化委员会 TC28/SC42 信息人工智能分委会委员;

全国信息技术标准化委员会 TC28/SC25 办公机器、外围设备和耗材分委会委员;

国家知识产权局中国专利审查技术专家;

全国工业和信息化职业教育教学指导委员会委员;

全国工业和信息化职业教育教学指导委员会通信职业教育教学指导分委会成果转化专 门工作委员会委员;

中关村标准化协会知识产权委员会委员;

北京大学心理与认知科学学院应用心理硕士行业导师;

联系方式

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教育经历

2003.07——本科——清华大学——自动化

2013.09——博士——清华大学——自动化

工作经历

2007.07-2008.07, 联想研究院, 数字家庭与协同计算实验室, 主管研究员

• 2008.07-2011.02, NTT DOCOMO (北京)通信技术研究中心有限公司,先进无 线系统研究室,高级研究员

• 2011.02-2014.04, 诺基亚(中国)投资有限公司, 兼容性与产业协作, 高级标准 化专家

• 2014.04-2015.10, 微软(中国)有限公司, Windows 与设备部, 技术经理、首席标准代表

• 2015.12-2016.04, 华为技术有限公司, 标准与产业部, 标准与产业规划经理

• 2016.04-至今,北京小米移动软件有限公司,集团技术委员会办公室,集团技术 委秘书长

在技术预研和标准化领域共从业 15 年以上,涉及计算机和无线通信的多个技术 领域,包括 5G/6G 通信物理层/射频技术、人工智能、物联网/智能家居、能量传输和存 储技术、操作系统及应用等,提出发明专利 100 余项(不含同族)。多年参与中国通信 标准化协会(CCSA)、全国信息技术标准化技术委员会、全国信息安全标准化技术委员 会等标准组织工作,牵头或参与国家、行业标准项目 80 余项;参与 3GPP、USB IF、 W3C 等国际标准化组织工作,输出多篇技术提案。担任 CCF 物联网专委会常务委员、 信标委互联分委会副主任委员,Globecom、CCF 等学术组织和会议审稿专家。产出的 发明专利中多项被认定为标准必要专利(SEP)。

同时负责集团高校技术合作和技术品牌建设工作,打造集团层面的政府项目、高校合作、企事业单位合作标杆。通过内外部技术合作,为集团获取领先的核心技术能力、 人才和资金收益,以及对外影响力。带领团队开创了集团高校合作工作板块,定立了集团首个高校科研合作立项和管理流程,推动打造了可信操作系统形式化验证、振动体验、可穿戴医工结合等发布会级的标杆高校合作项目。牵头完成高校课程合作工具 AloT 开发平台 (AloT 实训箱)的研制工作,并将其推广到 30 余所知名高校,形成小米澎湃 OS 课程系列。

项目经历

• 3GPP 5G/6G 标准必要专利研制和对应标准化(2016.04-2020.11)

开展 5G 相关物理层信令(3GPP RAN1)、射频性能指标(3GPP RAN4)等 内容的开创性研究工作,形成集团 5G/6G 专利池,并推动相关标准化工作,形成标准 必要专利。推动 3GPP 相关标准工作,使得集团智能终端产品符合相关标准指标。完 成相关专利申请 400 余项,其中授权 270 余项,授权专利中第一作者 210 余项,授权 地包括中国大陆、美国、日本、印度等重点布局国家,已认定 5G 现网实施标准必要 专利 2 项, 荣获集团第一届卓越专利奖。推动 3GPP 射频性能指标完全符合小米智能 终端产品实施现状

中国国家标准、行业标准等标准化工作(2016.04-至今)

开展中国国家标准、行业标准、团队标准等研制工作,推动集团产品也业务涉 及的包括 5G/6G 通信物理层/射频技术、人工智能、物联网/智能家居、能量传输和存 储技术、操作系统及应用等方面技术进入国标、行标,确保产品符合相关标准规定。 参与中国通信标准化协会(CCSA)、全国信息技术标准化技术委员会、全国信息安全 标准化技术委员会等标准组织工作,牵头或参与国家、行业标准项目 80 余项;担任 CCSA 智能家居子组副组长、信标委委员、信标委互联分委会副主任委员等重要标准 职务;三次荣获工信部百强团标奖。确保集团在中国标准领域的领导力,及确保集团 产品和服务符合相关标准规定。

• 高校技术预研项目(2020.11-至今)

推动集团高校技术预研立项和管理机制,并推动集团层面高校合作预研标杆项 目,形成规模化价值产出。完成集团高校合作预研项目立项和评审机制,建立了完善 的项目管理和预算管理机制。

• AloT 开发平台及其课程与认证推广(2022.11-至今)

打造符合小米软硬件融合与 AI 赋能的可塑化开发平台,并形成服务于操作系统、人车家全生态场景战略的高校课程体系和相关配套认证体系,并形成影响力和收益。牵头完成 AloT 开发平台(AloT 实训箱)产品设计和开发、生产工作。形成小米澎湃 OS 系列基础软件、互联互通、AI 相关课程,并完成全套认证课程、师资培训和证书发放体系的建设。

专利、获奖及荣誉

取得专利

1. 国家标准——GB/T 40027-2021: 信息技术 信息设备互连 智能家用电子系统终端设备属性描述——单位为第二/个人为第五作者——2021-11-01

2. 国家标准——GB/T 37723-2019: 信息技术 信息设备互连 智能家用电子系统终端统一接入服务平台总体技术要求——单位为第三/个人为第五作者——2020-03-01

国家标准——GB/T 38322-2019:信息技术 信息设备互连 第三方智能家用电子
 系统与终端统一接入服务平台接口要求——单位为第三/个人为第五作者——2020-07-01

国家标准——GB/T 38320-2019: 信息技术 信息设备互连 智能家用电子系统终端设备与终端统一接入服务平台接口要求——单位为第三/个人为第五作者——2020-07-01

5. 国家标准——GB/T 37729-2019: 信息技术 智能移动终端应用软件(APP)技术 要求——单位为第五/个人为第十二作者——2020-03-01

 行业标准(入网认证)——YD/T 2436.1-2018:多模移动终端电磁干扰技术要求和测 试方法 第1部分:通用要求——第十七作者——2018-12-21

7. 行业标准(入网认证)——YD/T 2436.2-2018: 多模移动终端电磁干扰技术要求和测 试方法 第2部分: 蜂窝无线模组与无线局域网间电磁干扰——第十五作者——2018-12-21

8. 行业标准(入网认证)——YD/T 3677-2020: LTE 数字蜂窝移动通信网终端设备测 试方法(第二阶段)——第二十作者——2020-04-16

9. 行业标准——YD/T 4209-2023: 智能家居终端安全 智能电视安全能力技术要求和 测试方法——单位为第三/个人为第九作者——2023-08-01

10. 行业标准——YD/T 4321-2023:绿色设计产品评价技术规范 移动通信终端——单位为第八/个人为第十八作者——2023-08-01

11. 团体标准(2020年度工信部百强团标)——T/CCSA 259-2019:移动互联网+智能家 居系统 基于语音的设备控制接口技术要求——单位为第一/个人为第一作者——2019-12-23

12. 团体标准(2021年度工信部百强团标)——T/CCSA 261-2019:移动互联网+智能家 居系统 应用终端元数据技术要求——单位为第三/个人为第八作者——2019-12-23

13. 团体标准(2021年度工信部百强团标)——T/CCSA 288-2020: 智能家居终端安全 智能音箱安全能力技术要求和测试方法——单位为第三/个人为第十七作者——2020-08-13

14. 发明——一种通信方法及装置——第一作者——20190222——中国大陆

15. 发明——信令发送方法、参考信号发送方法、装置及系统——第一作者—— 20190212——中国大陆

16. 发明——数据传输方法及装置、计算机程序和存储介质——第一作者—— 20210309——美国

17. 发明——建立业务连接的方法及装置质——第一作者——20220826——中国大陆

18. 发明——建立业务连接的方法及装置质——第一作者——20201006——美国

19. 发明——信令发送方法、参考信号发送方法、装置及系统——第一作者—— 20220222——美国

20. 发明——通信方法及装置——第一作者——20210223——美国

21. 发明——通信方法及装置——第一作者——20191206——中国大陆

22. 发明——传输、获取上行 HARQ 反馈信息的方法及装置——第一作者——

20201113——中国大陆

23. 发明——传输、获取上行 HARQ 反馈信息的方法及装置——第一作者——20200602——中国大陆

24. 发明——传输、获取上行 HARQ 反馈信息的方法及装置——第一作者—— 20210615——美国

25. 发明——传输、获取上行 HARQ 反馈信息的方法及装置——第一作者—— 20210629——美国

26. 发明——信息显示方法及装置——第一作者——20200703——中国大陆

27. 发明——获取、传输 HARQ 反馈信息的方法及装置——第一作者——20190830— —中国大陆

28. 发明——获取、传输 HARQ 反馈信息的方法及装置——第一作者——20220614— —美国

29. 发明——确定传输时间间隔的方法、装置及基站、用户设备——第一作者—— 20210129——中国大陆

30. 发明——确定传输时间间隔的方法、装置及基站、用户设备——第一作者—— 20210413——美国

31. 发明——通信资源管理方法、装置及系统——第一作者——20210810——美国

32. 发明——HARQ 反馈方法、装置及系统——第一作者——20200619——中国大陆

33. 发明——HARQ 反馈方法、装置及系统——第一作者——20210518——美国

34. 发明——确定调制编码方式的方法及装置——第一作者——20210504——美国

35. 发明——确定调制编码方式的方法及装置——第一作者——20200114——中国大陆

36. 发明——HARQ 反馈方法及装置、设备、计算机可读存储介质——第一作者—— 20220517——美国

37. 发明——HARQ 反馈方法及装置、设备、计算机可读存储介质——第一作者—— 20211116——中国大陆

38. 发明——一种通信方法及装置——第一作者——20190709——美国

39. 发明——数据传输方法及装置——第一作者——20220816——美国

40. 发明——数据传输方法及装置——第一作者——20210831——中国大陆

41. 发明——传输数据的方法及装置——第一作者——20200619——中国大陆

42. 发明——传输数据的方法及装置——第一作者——20221115——美国

43. 发明——HARQ 反馈方法、装置、用户设备和基站——第一作者——20190806—

一中国大陆

- 44. 发明——传输信息的方法及装置——第一作者——20220802——美国
- 45. 发明——传输信息的方法及装置——第一作者——20220125——中国大陆
- 46. 发明——HARQ 反馈方法、装置、用户设备和基站——第一作者——20230221— —美国
- 47. 发明——抢占时频资源的确定方法及装置和用户设备——第一作者—— 20221004——美国
- 48. 发明——抢占时频资源的确定方法及装置、用户设备和基站——第一作者—— 20230103——美国
- 49. 发明——数据传输方法及装置、用户设备和基站——第一作者——20220211—— 中国大陆
- 50. 发明——数据传输方法及装置、用户设备和基站——第一作者——20210525—— 美国
- 51. 发明——抢占时频资源的确定方法及装置和用户设备——第一作者—— 20220624——中国大陆
- 52. 发明——抢占时频资源的确定方法及装置、用户设备和基站——第一作者 ——20210219——中国大陆
- 53. 发明——干扰协调方法及装置、基站和用户设备——第一作者——20211001—— 中国大陆
- 54. 发明——传输信息的方法及装置——第一作者——20220412——美国
- 55. 发明——传输信息的方法及装置——第一作者——20200306——中国大陆
- 56. 发明——传输信息的方法及装置——第一作者——20200114——中国大陆
- 57. 发明——传输信息的方法及装置——第一作者——20231117——中国大陆
- 58. 发明——获取控制信息的方法、装置和系统——第一作者——20191115——中国 大陆
- 59. 发明——获取控制信息的方法、装置和系统——第一作者——20220726——美国
- 60. 发明——传输控制信息的方法和装置——第一作者——20230214——美国
- 61. 发明——传输控制信息的方法、装置和存储介质——第一作者——20200602—— 中国大陆
- 62. 发明——调整信息传输的方法、基站及用户设备——第一作者——20230425—— 美国
- 63. 发明——调整信息传输的方法、基站及用户设备——第一作者——20220215——

中国大陆

- 64. 发明——调整信息传输的方法、基站及用户设备——第一作者——20220722—— 中国大陆
- 65. 发明——调整信息传输的方法、基站及用户设备——第一作者——20220913—— 美国
- 66. 发明——调整信息传输的方法、基站及用户设备——第一作者——20210209—— 中国大陆
- 67. 发明——调整信息传输的方法、基站及用户设备——第一作者——20211123—— 美国
- 68. 发明——确定 CQI 信息的方法、基站及用户设备——第一作者——20211001—— 中国大陆
- 69. 发明——确定 CQI 信息的方法、基站及用户设备——第一作者——20220913—— 美国
- 70. 发明——确定 CQI 信息的方法、基站及用户设备——第一作者——20220621—— 美国
- 71. 发明——确定 CQI 信息的方法、基站及用户设备——第一作者——20220201—— 中国大陆
- 72. 发明——规避小区间干扰的方法及基站——第一作者——20220517——美国
- 73. 发明——规避小区间干扰的方法及基站——第一作者——20210219——中国大陆
- 74. 发明——混合自动重传请求反馈配置方法及装置和数据接收设备——第一作者— —20210907——中国大陆
- 75. 发明——混合自动重传请求反馈配置方法及装置和数据接收设备——第一作者— —20220920——美国
- 76. 发明——混合自动重传请求反馈方法及装置和数据接收设备——第一作者—— 20220729——中国大陆
- 77. 发明——混合自动重传请求反馈方法及装置和数据接收设备——第一作者—— 20220719——美国
- 78. 发明——传输信息的方法、基站及用户设备——第一作者——20221101——美国
 79. 发明——传输信息的方法和装置、基站及用户设备——第一作者——20220913—
 —美国
- 80. 发明—传输信息的方法和装置、基站及用户设备——第一作者——20231124—— 中国大陆
- 81. 发明——传输信息的方法和装置、基站及用户设备——第一作者——20221025—

—美国

82. 发明——传输信息的方法和装置、基站及用户设备——第一作者 ——20211207——中国大陆

83. 发明——传输信息的方法和装置、基站及用户设备——第一作者——20230328— —美国

84. 发明——控制上行发射功率的方法和装置、基站及用户设备——第一作者—— 20221220——美国

85. 发明——控制上行发射功率的方法和装置、基站及用户设备——第一作者—— 20210831——中国大陆

86. 发明——控制混合自动重传反馈的方法及装置——第一作者——20210427——中 国大陆

87. 发明——控制混合自动重传反馈的方法及装置——第一作者——20230509——美国

88. 发明——调整终端上行发射功率的方法、装置及存储介质——第一作者—— 20210903——中国大陆

89. 发明——调整天线模组的方法、装置及存储介质——第一作者——20220603—— 中国大陆

90. 发明——上行资源的分配方法、装置、设备及存储介质——第一作者—— 20230627

91. 美国——发明——发送信息的方法、装置、存储介质以及终端和基站——第一作 者——20210423——中国大陆

92. 发明——监听方法、装置、设备及存储介质——第一作者——20210126——中国 大陆

93. 发明 FBE 的数据传输方法、装置及存储介质——第一作者——20221004——中国大陆

94. 发明——一种非授权频段内的 HARQ 反馈方法——第一作者——20230711——美国

95. 发明——发送信息的方法、装置、存储介质以及终端——第一作者—— 20211008——中国大陆

96. 发明——上行资源的分配方法、装置、设备及存储介质——第一作者—— 20230530——中国大陆

97. 发明——调整终端上行发射功率的方法、装置及存储介质——第一作者—— 20231010——美国 98. 发明——混合自动重传请求反馈方法及装置、用户设备和基站——第一作者—— 20220301——中国大陆

99. 发明——传输重传码本的方法及装置——第一作者——20220325——中国大陆
100.发明——针对免授权的上行传输的反馈方法、装置及存储介质——第一作者——
20220805——中国大陆

101.发明——数据传输方法、设备及装置——第一作者——20231010——中国大陆

102.发明——传输信息的方法、装置、基站及终端——第一作者——20230526——中 国大陆

103.发明——重传信息的方法、装置、基站及终端——第一作者——20231128——美国

104.发明——重传信息的方法、装置、基站及终端——第一作者——20211008——中国大陆

105.发明——传输信息的方法、装置、基站及终端——第一作者——20231010——中国大陆

106.发明——资源位置确定方法、装置、基站及存储介质——第一作者—— 20230620——中国大陆

107.发明——调整自动重传的方法、装置、基站及终端——第一作者——20220708— 一中国大陆

108.发明——波束对应方法和装置、用户设备及基站——第一作者——20220610—— 中国大陆

109.发明——多带宽传输时的功率配置方法、装置、设备及系统——第一作者—— 20220520——中国大陆

110.发明——多带宽传输时的功率配置方法、装置、设备及系统——第一作者—— 20220621——中国大陆

111.发明——传输信息的方法、装置、用户设备及基站——第一作者——20211116— —中国大陆

112.发明——唤醒控制方法及装置、计算机存储介质——第一作者——20220805—— 中国大陆

113.发明——设备呈现内容的控制方法、控制装置及存储介质——第一作者—— 20230103——美国

114.发明——智能设备入网、网络接入方法、装置、设备、系统及介质——第一作者 ——20230509——美国

115.发明——涡旋波相位偏移的确定方法、装置和存储介质——第一作者——

20231003——中国大陆

116.发明——智能设备入网、网络接入方法、装置、设备、系统及介质——第一作者 ——20220920——美国

专业奖项

 北京市科技进步二等奖——面向全屋智能的异构互联和融合交互关键技术与应用 (排名 7) 2022-11,北京市人民政府。

2. 学会科技进步一等奖——移动通信终端电磁辐射暴露测试评估的关键技术研究及应用(排名 5) 2024-3,中国检验检测学会。

所获荣誉

1. 2020 年度,工信部百强团标(第一完成人)-T/CCSA 259-2019《移动互联网+智能家居系统基于语音的设备控制接口技术要求》,工业与信息化部。

2. 2021 年度,工信部百强团标-T/CCSA 261-2019 《移动互联网+智能家居系统 应用终端元数据技术要求》(第三完成人),工业与信息化部。

3. 2021 年度,工信部百强团标-T/CCSA 288-2020《智能家居终端安全 智能音箱安 全能力技术要求和测试方法》(第三完成人),工业与信息化部。

4. 2022.02, 第一届小米专利奖卓越奖。

发表论文、专著及编著

1. Multi-tier token based scheduling considering QoS and revenue in OFDMA system.2011-08, 2011 6th International ICST Conference on Communications and Networking in China (CHINACOM) (Best paper award), 共6章节, 合作撰写/第一 作者。

2. Source and Channel Coding Adaptation for Optimizing VoIP Quality of Experience in Cellular Systems.2010-04, 2010 IEEE Wireless Communication and Networking Conference, 共6章节, 合作撰写/第一作者。

3. Energy Efficient Transmission in Cellular Networks.2012, Energy-Aware Systems and Networking for Sustainable Initiatives, 共6章节, 合作撰写/第一作者。

4. Hybrid Spectrum Usage for Overlaying LTE Macrocell and Femtocell.2009-12,
 GLOBECOM 2009 - 2009 IEEE Global Telecommunications Conference, 共5章
 节,合作撰写/第二作者。



Zhou Juejia

General Manager of Xiaomi Corporation Industry Standards Research Department, Secretary-General and Lead of the Group Technical Committee Office, Supervisor of Group Postdoctoral Research Station.

Member of the Standing Committee of CCF Internet of Things (IoT) Professional Committee

Member of National Information Technology Standardization Technical Committee (SAC/TC28)

Deputy Director of National Information Technology Standardization Subcommittee on Interconnection of Information Technology Equipment (SAC/TC28/SC25)

Member of National Information Technology Standardization Subcommittee on Artificial Intelligence (SAC/TC28/SC42)

Member of National Information Technology Standardization Subcommittee on Office Machines, Peripherals, and Consumables (SAC/TC28/SC25)

Technical Expert for Patent Examination of the National Intellectual Property Administration

Member of Vocational Education Steering Committee of Industry and Information Technology

Member of the Specialized Committee for Achievements Transformation of the Communication Vocational Education Steering Subcommittee, National Vocational Education Steering Committee of Industry and Information Technology

Member of Intellectual Property Committee of Zhongguancun Standardization Association

Industry Mentor for Master of Applied Psychology, School of Psychological and Cognitive Sciences, Peking University

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Educational Background

July 2003: Bachelor's degree in Automation, Tsinghua University September 2013: Doctoral degree in Automation, Tsinghua University

Work Experience

• July 2007 – July 2008: Principal Researcher, Digital Home & Collaborative Computing Lab, Lenovo Research Institute

• July 2008 – February 2011: Senior Researcher, Advanced Wireless Systems Lab, NTT DOCOMO (Beijing) Communications Technology Research Center Co., Ltd.

• February 2011 – April 2014: Senior Standards Expert, Compatibility & Industry Collaboration, Nokia (China) Investment Co., Ltd.

- April 2014 October 2015: Technical Manager & Chief Standards Representative, Windows & Devices Group, Microsoft (China) Co., Ltd.
- December 2015 April 2016: Standards & Industry Planning Manager, Standards & Industry Department, Huawei Technologies Co., Ltd.
- April 2016 Present: Secretary-General of Group Technology Committee, Office of Group Technology Committee, Beijing Xiaomi Mobile Software Co., Ltd.

With over 15 years of dedicated experience in technical pre-research and standardization, Dr. Zhou's professional scope encompasses diverse technical fields within computer science and wireless communications. These include 5G/6G communication physical layer/radio frequency technology, artificial intelligence, the Internet of Things/smart home systems, energy transmission and storage technologies, operating systems, and their applications, among others. Dr. Zhou has successfully filed over 100 invention patents (excluding patent families). Dr. Zhou has actively engaged with prominent standardization bodies for many years, such as the China Communications Standards Association (CCSA), the National Information Technology Standardization Technical Committee, and the National Information Security Standardization Technical Committee. In these capacities, Dr. Zhou has either led or participated in more than 80 national and industry-level standardization projects. Additionally, Dr. Zhou has contributed to international standardization efforts within organizations like 3GPP, the USB Implementers Forum (USB-IF), and the World Wide Web Consortium (W3C), submitting multiple technical proposals. Dr. Zhou's professional roles extend to serving as a Standing Member of the China Computer Federation (CCF) Internet of Things Professional Committee, Deputy Director of the Sub-committee on Interconnection of Information Technology Equipment of the National Information Technology Standardization Technical Committee, as well as a reviewer for academic organizations and conferences, including Globecom and CCF events. Notably, several of Dr. Zhou's invention patents have been classified as

Standard-Essential Patents (SEP).

Dr. Zhou is also responsible for leading the Xiaomi Corporation's technical cooperation with universities and technical brand-building initiatives. He has successfully established benchmark projects for government-led initiatives, university partnerships, and collaborations with enterprises and public institutions at the corporate level. Through internal and external technical collaborations, he has enabled Xiaomi Corporation to acquire leading core technical capabilities, attract top-tier talent, generate substantial financial returns, and enhance its external influence. He spearheaded the establishment of the Xiaomi Corporation's university cooperation division, formulating the first-ever project approval and management processes for university-based scientific research collaborations. Under his leadership, several highprofile university partnership projects have been launched, including formal verification of trusted operating systems, vibration experience technology, and the integration of wearable devices with medical engineering-all of which were showcased at major product launch events. Dr. Zhou led the development of the AloT development platform (AloT training kit) and promoted it to over 30 renowned universities, culminating in the formation of the Xiaomi HyperOS curriculum series.

Project Experience

• 3GPP 5G/6G Standard-Essential Patent Development and Corresponding Standardization (2016-04–2020-11)

Dr. Zhou led groundbreaking research on 5G physical layer signaling (3GPP RAN1), radio frequency (RF) performance indicators (3GPP RAN4), and related technologies, establishing Xiaomi's 5G/6G patent portfolio and advancing standardization to form Standard-Essential Patents (SEPs). He drove 3GPP standardization initiatives to ensure the Xiaomi Corporation's smart terminal products complied with relevant technical specifications and performance metrics. Dr. Zhou filed over 400 patent applications, with over 270 granted (210+ as the first author), covering key jurisdictions including China, the U.S., Japan, and India. Two patents were recognized as SEPs for 5G commercial network implementation, earning him the Xiaomi Corporation's first Excellence Patent Award. He ensured full alignment of 3GPP RF performance indicators with the technical implementation status of Xiaomi's smart terminal products, bridging standard requirements with product development.

China National and Industrial Standardization Work (2016-04–Present)

Dr. Zhou led the development of China's national standards, industrial standards, and group standards, driving the integration of the Xiaomi Corporation's technologies including 5G/6G communication physical layer/RF technology, artificial intelligence, loT/smart home, energy transmission/storage, and operating systems/applications into authoritative standards to ensure product compliance. He actively participated in leading standardization organizations such as the China Communications Standards Association (CCSA), National Information Technology Standardization Technical Committee (TC28), and National Information Security Standardization Technical Committee (TC260), leading or contributing to over 80 national and industrial standard projects. Dr. Zhou held key roles including Deputy Head of CCSA's Smart Home Subgroup, Member of TC28, and Deputy Director of TC28/SC25 (Subcommittee on Information Technology Equipment Interconnection). He was awarded the MIIT Top 100 Group Standard Award three times, reinforcing the Xiaomi Corporation's leadership in China's standardization landscape and ensuring its products and services meet all regulatory requirements.

University Technical Research Projects (2020-11-Present)

Dr. Zhou drove the establishment of the group's university technical pre-research initiation and management mechanisms, advancing corporate-level university-cooperative pre-research flagship projects to achieve scalable value generation. He established the initiation and evaluation mechanisms for the Xiaomi Corporation's university-cooperative pre-research projects and developed robust systems for project management and budget management.

• AloT Development Platform, Curriculum, and Certification Promotion (2022-11–Present)

Dr. Zhou led the development of a flexible AIoT development platform aligned with Xiaomi's software-hardware integration and AI empowerment strategy, establishing university curriculum systems and supporting certification frameworks for the strategic scenarios of operating systems, smart mobility, home, and full-ecosystem integration to build influence and generate revenue. He spearheaded the product design, development, and production of the AIoT training kit. The first-generation product has been adopted by over 20 renowned universities, forming Xiaomi HyperOS-based courses in basic software, interoperability, and AI, and completing the construction of a full set of certification courses, teacher training, and credentialing systems.

Patents, Awards, and Honors

Patents

1. National Standard GB/T 40027-2021 – *Information Technology—Interconnection of Information Technology Equipment—Attribute Description for Intelligent Home Electronic System Terminal Equipment*, in which the organization is listed as the 2nd drafting unit and the individual is ranked 5th among the principal drafters, was issued on November 1, 2021.

2. National Standard GB/T 37723-2019 – Information Technology—Interconnection of Information Technology Equipment—General Technical Requirements for Unified Access Service Platform of Intelligent Home Electronic System Terminals, in which the organization is listed as the 3rd drafting unit and the individual is ranked 5th among the principal drafters, was issued on March 1, 2020.

3. National Standard GB/T 38322-2019 – Information Technology—Interconnection

of Information Technology Equipment—Interface Requirements for Third-Party Intelligent Home Electronic Systems and Unified Access Service Platform for Terminals, in which the organization is listed as the 3rd drafting unit and the individual is ranked 5th among the principal drafters, was issued on July 1, 2020.

4. National Standard GB/T 38320-2019 – Information Technology—Interconnection of Information Technology Equipment—Interface Requirements for Intelligent Home Electronic System Terminal Equipment and Unified Access Service Platform for Terminals, in which the organization is listed as the 3rd drafting unit and the individual is ranked 5th among the principal drafters, was issued on July 1, 2020.

5. National Standard GB/T 37729-2019 – *Information Technology*—*Technical Requirements for Applications (APPs) on Intelligent Mobile Terminals*, in which the organization is listed as the 5th drafting unit and the individual is ranked 12th among the principal drafters, was issued on March 1, 2020.

6. Industry Standard (Network Access Certification) YD/T 2436.1-2018 – *Technical Requirements and Test Methods for Electromagnetic Interference of Multimode Mobile Terminals—Part 1: General Requirements*, in which the individual is ranked 17th among the principal drafters, was issued on December 21, 2018.

7. Industry Standard (Network Access Certification) YD/T 2436.2-2018 – *Technical Requirements and Test Methods for Electromagnetic Interference of Multimode Mobile Terminals—Part 2: Electromagnetic Interference Between Cellular Wireless Modules and Wireless Local Area Networks*, in which the individual is ranked 15th among the principal drafters, was issued on December 21, 2018.

8. Industry Standard (Network Access Certification) YD/T 3677-2020 – *Test Methods for LTE Digital Cellular Mobile Communication Network Terminal Equipment (Phase 2)*, in which the individual is ranked 20th among the principal drafters, was issued on April 16, 2020.

9. Industry Standard YD/T 4209-2023 – *Smart Home Terminal Security—Technical Requirements and Test Methods for Smart TV Security Capabilities*, in which the organization is listed as the 3rd drafting unit and the individual is ranked 9th among the principal drafters, was issued on August 1, 2023.

10. Industry Standard YD/T 4321-2023 – *Technical Specification for Green Design Product Evaluation—Mobile Communication Terminals*, in which the organization is listed as the 8th drafting unit and the individual is ranked 18th among the principal drafters, was issued on August 1, 2023.

11. Group Standard (Top 100 MIIT Group Standard, 2020) T/CCSA 259-2019 – *Mobile Internet + Smart Home System—Technical Requirements for Voice-Based Device Control Interfaces*, in which the organization is listed as the 1st drafting unit and the individual is ranked 1st among the principal drafters, was issued on December 23, 2019.

12. Group Standard (Top 100 MIIT Group Standard, 2021) T/CCSA 261-2019 – *Mobile Internet + Smart Home System—Technical Requirements for Application Terminal Metadata*, in which the organization is listed as the 3rd drafting unit and the

individual is ranked 8th among the principal drafters, was issued on December 23, 2019.

13. Group Standard (Top 100 MIIT Group Standard, 2021) T/CCSA 288-2020 – *Smart Home Terminal Security—Technical Requirements and Test Methods for Smart Speaker Security Capabilities*, in which the organization is listed as the 3rd drafting unit and the individual is ranked 17th among the principal drafters, was issued on August 13, 2020.

14. Invention Patent – *A Communication Method and Device*, in which the individual is ranked 1st among the authors, was filed on February 22, 2019, in China.

15. Invention Patent – *Signaling Transmission Method, Reference Signal Transmission Method, Device, and System*, in which the individual is ranked 1st among the authors, was filed on February 12, 2019, in China.

16. Invention Patent – *Data Transmission Method and Device, Computer Program, and Storage Medium*, in which the individual is ranked 1st among the authors, was filed on March 9, 2021, in the United States.

17. Invention Patent – *Method and Device for Establishing a Service Connection*, in which the individual is ranked 1st among the authors, was filed on August 26, 2022, in China.

18. Invention Patent – *Method and Device for Establishing a Service Connection*, in which the individual is ranked 1st among the authors, was filed on October 6, 2020, in the United States.

19. Invention Patent – *Signaling Transmission Method, Reference Signal Transmission Method, Device, and System*, in which the individual is ranked 1st among the authors, was filed on February 22, 2022, in the United States.

20. Invention Patent – *Communication Method and Device*, in which the individual is ranked 1st among the authors, was filed on February 23, 2021, in the United States.

21. Invention Patent – *Communication Method and Device*, in which the individual is ranked 1st among the authors, was filed on December 6, 2019, in China.

22. Invention Patent – *Method and Device for Transmitting and Acquiring Uplink HARQ Feedback Information*, in which the individual is ranked 1st among the authors, was filed on November 13, 2020, in China.

23. Invention Patent – *Method and Device for Transmitting and Acquiring Uplink HARQ Feedback Information*, in which the individual is ranked 1st among the authors, was filed on June 2, 2020, in China.

24. Invention Patent – *Method and Device for Transmitting and Acquiring Uplink HARQ Feedback Information*, in which the individual is ranked 1st among the authors, was filed on June 15, 2021, in the United States.

25. Invention Patent – *Method and Device for Transmitting and Acquiring Uplink HARQ Feedback Information*, in which the individual is ranked 1st among the authors, was filed on June 29, 2021, in the United States.

26. Invention Patent – *Information Display Method and Device*, in which the individual is ranked 1st among the authors, was filed on July 3, 2020, in China.

27. Invention Patent – *Method and Device for Acquiring and Transmitting HARQ Feedback Information*, in which the individual is ranked 1st among the authors, was filed on August 30, 2019, in China.

28. Invention Patent – *Method and Device for Acquiring and Transmitting HARQ Feedback Information*, in which the individual is ranked 1st among the authors, was filed on June 14, 2022, in the United States.

29. Invention Patent – *Method and Device for Determining Transmission Time Interval, Base Station, and User Equipment*, in which the individual is ranked 1st among the authors, was filed on January 29, 2021, in China.

30. Invention Patent – *Method and Device for Determining Transmission Time Interval, Base Station, and User Equipment*, in which the individual is ranked 1st among the authors, was filed on April 13, 2021, in the United States.

31. Invention Patent – *Communication Resource Management Method, Device, and System*, in which the individual is ranked 1st among the authors, was filed on August 10, 2021, in the United States.

32. Invention Patent – *HARQ Feedback Method, Device, and System*, in which the individual is ranked 1st among the authors, was filed on June 19, 2020, in China.

33. Invention Patent – *HARQ Feedback Method, Device, and System*, in which the individual is ranked 1st among the authors, was filed on May 18, 2021, in the United States.

34. Invention Patent – *Method and Device for Determining Modulation and Coding Scheme*, in which the individual is ranked 1st among the authors, was filed on May 4, 2021, in the United States.

35. Invention Patent – *Method and Device for Determining Modulation and Coding Scheme*, in which the individual is ranked 1st among the authors, was filed on January 14, 2020, in China.

36. Invention Patent – *HARQ Feedback Method and Device, Equipment, and Computer-Readable Storage Medium*, in which the individual is ranked 1st among the authors, was filed on May 17, 2022, in the United States.

37. Invention Patent – HARQ Feedback Method and Device, Equipment, and Computer-Readable Storage Medium, in which the individual is ranked 1st among the authors, was filed on November 16, 2021, in China.

38. Invention Patent – *A Communication Method and Device*, in which the individual is ranked 1st among the authors, was filed on July 9, 2019, in the United States.

39. Invention Patent – *Data Transmission Method and Device*, in which the individual is ranked 1st among the authors, was filed on August 16, 2022, in the United States.

40. Invention Patent – *Data Transmission Method and Device*, in which the individual is ranked 1st among the authors, was filed on August 31, 2021, in China.

41. Invention Patent – *Method and Device for Transmitting Data*, in which the individual is ranked 1st among the authors, was filed on June 19, 2020, in China.

42. Invention Patent – *Method and Device for Transmitting Data*, in which the individual is ranked 1st among the authors, was filed on November 15, 2022, in the United States.

43. Invention Patent – *HARQ Feedback Method, Device, User Equipment, and Base Station*, in which the individual is ranked 1st among the authors, was filed on August 6, 2019, in China.

44. Invention Patent – *Method and Device for Transmitting Information*, in which the individual is ranked 1st among the authors, was filed on August 2, 2022, in the United States.

45. Invention Patent – *Method and Device for Transmitting Information*, in which the individual is ranked 1st among the authors, was filed on January 25, 2022, in China.

46. Invention Patent – *HARQ Feedback Method, Device, User Equipment, and Base Station*, in which the individual is ranked 1st among the authors, was filed on February 21, 2023, in the United States.

47. Invention Patent – *Method and Device for Determining Preemptive Time-Frequency Resources and User Equipment*, in which the individual is ranked 1st among the authors, was filed on October 4, 2022, in the United States.

48. Invention Patent – *Method and Device for Determining Preemptive Time-Frequency Resources, User Equipment, and Base Station*, in which the individual is ranked 1st among the authors, was filed on January 3, 2023, in the United States.

49. Invention Patent – *Data Transmission Method and Device, User Equipment, and Base Station*, in which the individual is ranked 1st among the authors, was filed on February 11, 2022, in China.

50. Invention Patent – *Data Transmission Method and Device, User Equipment, and Base Station*, in which the individual is ranked 1st among the authors, was filed on May 25, 2021, in the United States.

51. Invention Patent – *Method and Device for Determining Preemptive Time-Frequency Resources and User Equipment*, in which the individual is ranked 1st among the authors, was filed on June 24, 2022, in China.

52. Invention Patent – *Method and Device for Determining Preemptive Time-Frequency Resources, User Equipment, and Base Station*, in which the individual is ranked 1st among the authors, was filed on February 19, 2021, in China.

53. Invention Patent – *Interference Coordination Method and Device, Base Station, and User Equipment*, in which the individual is ranked 1st among the authors, was filed on October 1, 2021, in China.

54. Invention Patent – *Method and Device for Transmitting Information*, in which the individual is ranked 1st among the authors, was filed on April 12, 2022, in the United States.

55. Invention Patent – *Method and Device for Transmitting Information*, in which the individual is ranked 1st among the authors, was filed on March 6, 2020, in China.

56. Invention Patent – *Method and Device for Transmitting Information*, in which the individual is ranked 1st among the authors, was filed on January 14, 2020, in China.

57. Invention Patent – *Method and Device for Transmitting Information*, in which the individual is ranked 1st among the authors, was filed on November 17, 2023, in China.

58. Invention Patent – *Method, Device, and System for Acquiring Control Information*, in which the individual is ranked 1st among the authors, was filed on November 15, 2019, in China.

59. Invention Patent – *Method, Device, and System for Acquiring Control Information*, in which the individual is ranked 1st among the authors, was filed on July
26, 2022, in the United States.

60. Invention Patent – *Method and Device for Transmitting Control Information*, in which the individual is ranked 1st among the authors, was filed on February 14, 2023, in the United States.

61. Invention Patent – *Method, Device, and Storage Medium for Transmitting Control Information*, in which the individual is ranked 1st among the authors, was filed on June 2, 2020, in China.

62. Invention Patent – *Method for Adjusting Information Transmission, Base Station, and User Equipment*, in which the individual is ranked 1st among the authors, was filed on April 25, 2023, in the United States.

63. Invention Patent – *Method for Adjusting Information Transmission, Base Station, and User Equipment*, in which the individual is ranked 1st among the authors, was filed on February 15, 2022, in China.

64. Invention Patent – *Method for Adjusting Information Transmission, Base Station, and User Equipment*, in which the individual is ranked 1st among the authors, was filed on July 22, 2022, in China.

65. Invention Patent – *Method for Adjusting Information Transmission, Base Station, and User Equipment*, in which the individual is ranked 1st among the authors, was filed on September 13, 2022, in the United States.

66. Invention Patent – *Method for Adjusting Information Transmission, Base Station, and User Equipment*, in which the individual is ranked 1st among the authors, was filed on February 9, 2021, in China.

67. Invention Patent – *Method for Adjusting Information Transmission, Base Station, and User Equipment*, in which the individual is ranked 1st among the authors, was filed on November 23, 2021, in the United States.

68. Invention Patent – *Method for Determining CQI Information, Base Station, and User Equipment*, in which the individual is ranked 1st among the authors, was filed on October 1, 2021, in China.

69. Invention Patent – *Method for Determining CQI Information, Base Station, and User Equipment*, in which the individual is ranked 1st among the authors, was filed on September 13, 2022, in the United States.

70. Invention Patent – *Method for Determining CQI Information, Base Station, and User Equipment*, in which the individual is ranked 1st among the authors, was filed on June 21, 2022, in the United States.

71. Invention Patent – *Method for Determining CQI Information, Base Station, and User Equipment*, in which the individual is ranked 1st among the authors, was filed on February 1, 2022, in China.

72. Invention Patent – *Method for Avoiding Inter-Cell Interference and Base Station*, in which the individual is ranked 1st among the authors, was filed on May 17, 2022, in the United States.

73. Invention Patent – *Method for Avoiding Inter-Cell Interference and Base Station*, in which the individual is ranked 1st among the authors, was filed on February 19, 2021, in China.

74. Invention Patent – *Hybrid Automatic Repeat Request Feedback Configuration Method and Device, and Data Receiving Equipment*, in which the individual is ranked 1st among the authors, was filed on September 7, 2021, in China.

75. Invention Patent – *Hybrid Automatic Repeat Request Feedback Configuration Method and Device, and Data Receiving Equipment*, in which the individual is ranked 1st among the authors, was filed on September 20, 2022, in the United States.

76. Invention Patent – *Hybrid Automatic Repeat Request Feedback Method and Device, and Data Receiving Equipment*, in which the individual is ranked 1st among the authors, was filed on July 29, 2022, in China.

77. Invention Patent – *Hybrid Automatic Repeat Request Feedback Method and Device, and Data Receiving Equipment*, in which the individual is ranked 1st among the authors, was filed on July 19, 2022, in the United States.

78. Invention Patent – *Method for Transmitting Information, Base Station, and User Equipment*, in which the individual is ranked 1st among the authors, was filed on November 1, 2022, in the United States.

79. Invention Patent – *Method and Device for Transmitting Information, Base Station, and User Equipment*, in which the individual is ranked 1st among the authors, was filed on September 13, 2022, in the United States.

80. Invention Patent – *Method and Device for Transmitting Information, Base Station, and User Equipment*, in which the individual is ranked 1st among the authors, was filed on November 24, 2023, in China.

81. Invention Patent – *Method and Device for Transmitting Information, Base Station, and User Equipment*, in which the individual is ranked 1st among the authors, was filed on October 25, 2022, in the United States.

82. Invention Patent – Method and Device for Transmitting Information, Base

Station, and User Equipment, in which the individual is ranked 1st among the authors, was filed on December 7, 2021, in China.

83. Invention Patent – *Method and Device for Transmitting Information, Base Station, and User Equipment*, in which the individual is ranked 1st among the authors, was filed on March 28, 2023, in the United States.

84. Invention Patent – *Method and Device for Controlling Uplink Transmission Power, Base Station, and User Equipment*, in which the individual is ranked 1st among the authors, was filed on December 20, 2022, in the United States.

85. Invention Patent – *Method and Device for Controlling Uplink Transmission Power, Base Station, and User Equipment*, in which the individual is ranked 1st among the authors, was filed on August 31, 2021, in China.

86. Invention Patent – *Method and Device for Controlling Hybrid Automatic Repeat Request Feedback*, in which the individual is ranked 1st among the authors, was filed on April 27, 2021, in China.

87. Invention Patent – *Method and Device for Controlling Hybrid Automatic Repeat Request Feedback*, in which the individual is ranked 1st among the authors, was filed on May 9, 2023, in the United States.

88. Invention Patent – *Method, Device, and Storage Medium for Adjusting Terminal Uplink Transmission Power*, in which the individual is ranked 1st among the authors, was filed on September 3, 2021, in China.

89. Invention Patent – *Method, Device, and Storage Medium for Adjusting Antenna Module*, in which the individual is ranked 1st among the authors, was filed on June 3, 2022, in China.

90. Invention Patent – *Method for Allocating Uplink Resources, Device, Equipment, and Storage Medium*, in which the individual is ranked 1st among the authors, was filed on June 27, 2023, in China.

91. Invention Patent – *Method for Transmitting Information, Device, Storage Medium, Terminal, and Base Station*, in which the individual is ranked 1st among the authors, was filed on April 23, 2021, in China.

92. Invention Patent – *Listening Method, Device, Equipment, and Storage Medium*, in which the individual is ranked 1st among the authors, was filed on January 26, 2021, in China.

93. Invention Patent – *Data Transmission Method, Device, and Storage Medium for FBE*, in which the individual is ranked 1st among the authors, was filed on October 4, 2022, in China.

94. Invention Patent – A HARQ Feedback Method in Unlicensed Frequency Bands, in which the individual is ranked 1st among the authors, was filed on July 11, 2023, in the United States.

95. Invention Patent – *Method for Transmitting Information, Device, Storage Medium, and Terminal*, in which the individual is ranked 1st among the authors, was

filed on October 8, 2021, in China.

96. Invention Patent – *Method for Allocating Uplink Resources, Device, Equipment, and Storage Medium*, in which the individual is ranked 1st among the authors, was filed on May 30, 2023, in China.

97. Invention Patent – *Method, Device, and Storage Medium for Adjusting Terminal Uplink Transmission Power*, in which the individual is ranked 1st among the authors, was filed on October 10, 2023, in the United States.

98. Invention Patent – *Hybrid Automatic Repeat Request Feedback Method and Device, User Equipment, and Base Station*, in which the individual is ranked 1st among the authors, was filed on March 1, 2022, in China.

99. Invention Patent – *Method and Device for Transmitting a Retransmission Codebook*, in which the individual is ranked 1st among the authors, was filed on March 25, 2022, in China.

100. Invention Patent – *Feedback Method, Device, and Storage Medium for License-Free Uplink Transmission*, in which the individual is ranked 1st among the authors, was filed on August 5, 2022, in China.

101. Invention Patent – *Data Transmission Method, Equipment, and Device*, in which the individual is ranked 1st among the authors, was filed on October 10, 2023, in China.

102. Invention Patent – *Method and Device for Transmitting Information, Base Station, and Terminal*, in which the individual is ranked 1st among the authors, was filed on May 26, 2023, in China.

103. Invention Patent – *Method and Device for Retransmitting Information, Base Station, and Terminal*, in which the individual is ranked 1st among the authors, was filed on November 28, 2023, in the United States.

104. Invention Patent – *Method and Device for Retransmitting Information, Base Station, and Terminal*, in which the individual is ranked 1st among the authors, was filed on October 8, 2021, in China.

105. Invention Patent – *Method and Device for Transmitting Information, Base Station, and Terminal*, in which the individual is ranked 1st among the authors, was filed on October 10, 2023, in China.

106. Invention Patent – *Method for Determining Resource Location, Device, Base Station, and Storage Medium*, in which the individual is ranked 1st among the authors, was filed on June 20, 2023, in China.

107. Invention Patent – *Method for Adjusting Automatic Retransmission, Device, Base Station, and Terminal*, in which the individual is ranked 1st among the authors, was filed on July 8, 2022, in China.

108. Invention Patent – *Beam Corresponding Method and Device, User Equipment, and Base Station*, in which the individual is ranked 1st among the authors, was filed on June 10, 2022, in China.

109. Invention Patent – *Power Configuration Method for Multi-Bandwidth Transmission, Device, Equipment, and System*, in which the individual is ranked 1st among the authors, was filed on May 20, 2022, in China.

110. Invention Patent – *Power Configuration Method for Multi-Bandwidth Transmission, Device, Equipment, and System*, in which the individual is ranked 1st among the authors, was filed on June 21, 2022, in China.

111. Invention Patent – *Method for Transmitting Information, Device, User Equipment, and Base Station*, in which the individual is ranked 1st among the authors, was filed on November 16, 2021, in China.

112. Invention Patent – *Wake-Up Control Method and Device, Computer Storage Medium*, in which the individual is ranked 1st among the authors, was filed on August 5, 2022, in China.

113. Invention Patent – *Control Method for Device Content Presentation, Control Device, and Storage Medium*, in which the individual is ranked 1st among the authors, was filed on January 3, 2023, in the United States.

114. Invention Patent – *Smart Device Network Access Method, Network Access Method, Device, Equipment, System, and Medium*, in which the individual is ranked 1st among the authors, was filed on May 9, 2023, in the United States.

115. Invention Patent – *Method for Determining Vortex Wave Phase Offset, Device, and Storage Medium*, in which the individual is ranked 1st among the authors, was filed on October 3, 2023, in China.

116. Invention Patent – *Smart Device Network Access Method, Network Access Method, Device, Equipment, System, and Medium*, in which the individual is ranked 1st among the authors, was filed on September 20, 2022, in the United States.

Awards

1. Second Prize of Beijing Science and Technology Progress Award – Key *Technologies and Applications for Heterogeneous Interconnection and Integrated Interaction in Smart Home Integration* (Ranked 7th), awarded by the Beijing Municipal People's Government, November 2022.

2. First Prize of Science and Technology Progress Award, China Inspection and Testing Society – *Key Technology Research and Application for Electromagnetic Radiation Exposure Testing of Mobile Communication Terminals* (Ranked 5th), March 2024.

Honors

 2020 MIIT Top 100 Group Standard (First Contributor) – T/CCSA 259-2019 Technical Requirements for Voice-Based Device Control Interfaces in Mobile Internet + Smart Home Systems, awarded by the Ministry of Industry and Information Technology (MIIT).

2. 2021 MIIT Top 100 Group Standard (Third Contributor) – T/CCSA 261-2019 Technical Requirements for Metadata of Application Terminals in Mobile Internet + Smart Home Systems, awarded by the Ministry of Industry and Information Technology (MIIT).

3. 2021 MIIT Top 100 Group Standard (Third Contributor) – T/CCSA 288-2020 *Smart Home Terminal Security – Technical Requirements and Test Methods for Smart Speaker Security Capabilities*, awarded by the Ministry of Industry and Information Technology (MIIT).

4. First Session of Xiaomi Excellence Patent Award, February 2022.

Published Papers, Monographs, and Edited Works

1. "Multi-Tier Token-Based Scheduling Considering QoS and Revenue in OFDMA Systems" (Best Paper Award), published in August 2011 in the proceedings of the 2011 6th International ICST Conference on Communications and Networking in China (CHINACOM), consists of 6 chapters and was co-authored with the author listed as the first contributor.

2. "Source and Channel Coding Adaptation for Optimizing VoIP Quality of Experience in Cellular Systems", published in April 2010 in the proceedings of the *2010 IEEE Wireless Communications and Networking Conference*, consists of 6 chapters and was co-authored with the author listed as the first contributor.

3. "Energy-Efficient Transmission in Cellular Networks", published in 2012 in the book *Energy-Aware Systems and Networking for Sustainable Initiatives*, consists of 6 chapters and was co-authored with the author listed as the first contributor.

4. "Hybrid Spectrum Usage for Overlaying LTE Macrocell and Femtocell", published in December 2009 in the proceedings of *GLOBECOM 2009 – 2009 IEEE Global Telecommunications Conference*, consists of 5 chapters and was co-authored with the author listed as the second contributor.