**IEEE *P1936.1* Working Group**

**Meeting Minutes**

***March, 11, 2019***

***15:10AM to 16:40PM BEIJING***

***Chengdu, China***

Xiang Tan IGSNRR, Working Group Chair

Recorded by *Xianding He*, Working Group Secretary

1. Call to Order
   * Introduction and Declarations of Affiliations
   * Introduction to member entities

Chair Xiang Tan called the meeting to order at 15:00 p.m.

* + Goal of the Meeting

Chair Xiang Tan presented the goal of the Meeting: *Establishment of Working Group* and *Making a Working Plan*

* + Establishment of WG Membership (applicable for the first meeting)

The participants and entity members of the P1936.1 WG is just the same as P1939.1 and P1937.1 WG kickoff meeting in the morning. The member status is showed at attachment.

* + A sign in sheet captured attendance.

1. Approval of the Agenda

Chair Xiang Tan presented the agenda document of P1936.1 agenda.

Motion #1: Move to approve the Agenda, *IEEE\_PlenarySchedule\_P1936-1\_P1937-1\_1939-1\_FM-unapproved .docx.*

* + Moved by: *Wenjun Han, SGCC*
  + Seconded by: *Haiying Lu, CESI*

Motion passed unanimously

1. Review/Approval of WG Policies and Procedures (P&P)

Chair Xiang Tan presented the WG P&P document of P1936.1.

Motion #2: Move to approve the WG P&P document, *1936-1 SDAF WG\_P&P\_unapproved.docx.*

* + Moved by: *Haiying Lu, CESI*
  + Seconded by: Bing Tang, CAP

Motion passed unanimously.

1. IEEE Patent Policy

Chair Xiang Tan presented [the Patents](https://development.standards.ieee.org/myproject/Public/mytools/mob/slideset.pdf) slide to the WG and made a call for potentially essential patents at 15:30 pm.

No potentially essential patent claims were declared, and no holders of potential essential patents were identified.

1. Introduction of WG

Chair Xiang Tan presented a PPT to introduce the general information of P1936.1.

1. Election of Officers

Motion #3: Move to elect/appoint of Vice-chair: nominate Ren Bin from Chengdu JOUAV, Inc., as WG vice-chair. If no objection received by March 26th 2019, Ren Bin from Chengdu JOUAV will be the WG vice-chair.

* + Moved by: *Haiying Lu, CESI*
  + Seconded by: Zhihai Xu*, China Southern Power Grid Co. Ltd*

Motion passed unanimously

Motion #4: Move to elect/appoint of Secretary: Xianding He from Chengdu Aeronautic Polytechnic (CAP), as WG secretary. If no objection received by March 26th 2019, Xianding He from CAP will be the WG secretary.

* + Moved by: *Xiandong Dong, Xiaomi, Inc.*
  + Seconded by: Wenjun Han*, SGCC*

Motion passed unanimously

Motion #5: Approve Wenjun Han from SGCC, as WG Editor.

* + Moved by: Bing Tang, CAP
  + Seconded by: Ying Mai*, IGNSRR*

Motion passed unanimously

1. New Business

Task Assignment Discussion

Chair Xiang Tan presented a Grouping blue print to the WG. The WG may discuss the details at the next meeting.

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| **Number** | **Application Scenarios** | **PAR No.** | **Participants of interest** |
| Task 1 | Police | 1936.1.1 | Tianjin Wanmao, KEWEITAI, CMIRD(Chengdu), Guangzhou Hopong, HAWR EYE TECHNOLOGY, CTRS |
| Task 2 | Power line inspection | 1936.1.2 | Tianjin Wanmao, TTA, CAP，CSPG, SGCC, Chengdu JOUAV, Chengdu UAV Industry Association |
| Task 3 | Agriculture | 1936.1.3 | TTA, CAP, Chengdu UAV Industry Association, CTRS |
| Task 4 | Survey & Mapping | 1936.1.4 | Hebei Tianhai surveying and maping，CSPG, Guangzhou Hopong, Chengdu JOUAV, Chengdu UAV Industry Association, Peking Uni，POPRS |
| Task 5 | Aerial photography | 1936.1.5 | Tianjin Wanmao，Hebei Tianhai surveying and maping，Chengdu UAV Industry Association |
| Task 6 | logistics | 1936.1.6 | CAP |
| Task 7 | Remote sensing | 1936.1.7 | Hebei Tianhai surveying and maping, CSPG, Peking Uni |
| Task 8 | Emergency rescue | 1936.1.8 | Tianjin Wanmao, KEWEITAI，CMIRD(Chengdu)， TTA, CSPG, Guangzhou Hopong, HAWR EYE TECHNOLOGY, Peking Uni |
| Task 9 | Education | 1936.1.9 | TTA, Tianjin Wanmao |
| Task 10 | Entertainment | 1936.1.10 |  |
| Task 11 | Insurance | 1936.1.11 | Chengdu UAV Industry Association |
| Task 12 | Forestry | 1936.1.12 | Institute of Botany, CAS |
| Task 13 | Environment protection | 1936.1.13 | Institute of Botany, CAS |

1. Next Meeting
   * IEEE P1936.1 1st Teleconference May, 2019 -
   * IEEE P1936.1 2nd face-to-face meeting July 30, 2019 Suzhou China
   * IEEE P1936.1 3rd face-to-face meeting November, 2019 Chengdu China
   * IEEE P1936.1 4th face-to-face meeting March, 2020 Guangzhou China
2. Meeting to adjourn

Motion #*6*: Move to adjourn

* + Moved by: *Haiying Lu,CESI*
  + Seconded by: Zhihai Xu*,* *China Southern Power Grid Co. Ltd*

Motion passed unanimously.

The WG adjourned at 17:00 pm.

* **Attachment**

List of participants：

a. IEEE staff present:

Vitoria Wang, IEEE-SA

Meng Zhao, IEEE China

Zhongkai Deng, IEEE China

b. Voting Members present:

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| --- | --- | --- |
| **Participants** | **Affiliations** | **Voting status** |
| Xiaohan Liao廖小罕 | IGSNRR（中国科学院地理科学与资源研究所） |  |
| Xiang Tan谭翔 | IGSNRR（中国科学院地理科学与资源研究所） |  |
| jianli Liu刘见礼 | IGSNRR（中国科学院地理科学与资源研究所） |  |
| Chenchen Xu徐晨晨 | IGSNRR（中国科学院地理科学与资源研究所） |  |
| Ying Mai买莹 | IGSNRR（中国科学院地理科学与资源研究所） | V |
| Xuemei Yu余雪梅 | CESI（中国电子技术标准化研究院） |  |
| Zhang Zhang张璋 | CESI（中国电子技术标准化研究院） |  |
| Wenfeng Wang王文峰 | CESI（中国电子技术标准化研究院） |  |
| Haiying Lu卢海英 | CESI（中国电子技术标准化研究院） | V |
| Ning Li李宁 | Huawei (华为) | V |
| Chigang Peng彭炽刚 | China Southern Power Grid Co. Ltd(中国南方电网) | V |
| Zhihai Xu许志海 | China Southern Power Grid Co. Ltd(中国南方电网) |  |
| Yilong Chen陈义龙 | China Southern Power Grid Co. Ltd(中国南方电网) |  |
| Wenjun Han韩文军 | State Grid Corporation of China (SGCC) (国家电网) | V |
| Bin Ren任斌 | Chengdu JOUAV （成都纵横） | V |
| Xiaoyan Li李小燕 | Chengdu JOUAV （成都纵横） |  |
| Xuejun Duan段学军 | Chengdu JOUAV （成都纵横） |  |
| Xiandong Dong董贤东 | Xiaomi, Inc.（小米） | V |
| Xianding He 何先定 | Chengdu Aeronautics Polytechnic(CAP)（成都航空职业技术学院） |  |
| Bin Tang唐斌 | Chengdu Aeronautics Polytechnic(CAP)（成都航空职业技术学院） | V |
| Shulin Yu余姝霖 | Chengdu Aeronautics Polytechnic(CAP)（成都航空职业技术学院） |  |
| Yu Yuan 袁昱(dial in) | Senses Global Corporation | V |

c. Non-Voting Members present (The entity member application is in processing):

|  |  |  |
| --- | --- | --- |
| **Participants** | **Affiliations** | **Voting status** |
| Tao Liu刘涛 | CAAC (Chengdu) UAV system Co., Ltd.（中航（成都）无人机系统股份有限公司） |  |
| Pengxin Ding丁鹏欣 | The Second Research Institute of Civil Aviation Administration of China（中国民航局第二研究所） |  |
| Honglian Ding丁洪亮 | KEWEITAI 深圳科卫泰 |  |
| Qinghua Guo郭庆华 | GreenValley Inetrnational 北京数字绿土科技有限公司 |  |
| Hong Liu刘红 | Chengdu UAV Industry Association 成都市无人机产业协会 |  |
| Liangliang Yang杨亮亮 | DJI（大疆） |  |
| Minrui Zhang张敏睿 | DJI（大疆） |  |
| ChunHai Hao郝春海 | Hebei Tianhai surveying and Mapping（河北天海测绘） |  |
| Yu Su苏郁 | China Mobile Chengdu Institute of Research and Development（中国移动（成都）产业研究院） |  |
| Jian Zhou 周剑 | China Mobile Chengdu Institute of Research and Development（中国移动（成都）产业研究院） |  |
| Zhiyun Zhai 翟智云 | CTRS ENTERTAINMENT 中交遥感载荷科技有限公司 |  |
| Huang Tan谭晃 | HAWR EYE TECHNOLOGY鹰眼电子科技有限公司 |  |
| Fuhu Ren任伏虎 | Collaborative Innovation Center For Geospatial Big Data, Peking University北京大学时空大数据协同创新中心 |  |
| Shuangli Han韩双立 | Tianjin WOMOW S&T CO. ,Ltd.（天津市万贸科技有限公司） |  |
| Xinlei Xu徐鑫磊 | Guangzhou Hopong Co.Ltd（广州市红鹏直升机遥感科技有限公司） |  |
| Yanli Xue薛艳丽 | China TOPRS Technology Co. Ltd.（中测新图） |  |
| Jie Bai白洁 | China TOPRS Technology Co. Ltd.（中测新图） |  |
| Xueli Zhan詹学丽 | Institute of Electronics CAS(中国科学院电子学所) |  |
| Yanfei Wang 王岩飞 | Institute of Electronics CAS(中国科学院电子学所) |  |
| Shifang Wu 巫世芳 | TTA 北方天途航空技术发展（北京）有限公司 |  |
| Yi Tang杨苡 | TTA 北方天途航空技术发展（北京）有限公司 |  |

d. Observers:

|  |  |  |
| --- | --- | --- |
| **Participants** | **Affiliations** | **Voting status** |
| Xiaohang Wen文小航 | CUIT成都信息工程大学 |  |
| Yajun Mei 梅亚军 | JXTD北京捷翔天地信息技术有限公司 |  |
| Yufeng Liu刘宇丰 | HoneyWell霍尼韦尔 |  |
| Yong Liu刘镛 | China Civil Aviation Emergency Rescue Alliance中国民用航空应急救援联盟 |  |