

The logo consists of the letters 'AII' in a bold, red, sans-serif font. The letter 'A' is stylized with a black swoosh that curves under its left side and extends slightly to the right.

农业信息技术与 信息管理

AGRICULTURAL INFORMATION TECHNOLOGY
AND INFORMATION MANAGEMENT

2006

中国农业科学院农业信息研究所

Agricultural Information Institute,
Chinese Academy of Agricultural Sciences



中国农业出版社
CHINA AGRICULTURE PRESS

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前 言

2006年是中国农业科学院农业信息研究所进入“十一五”全面发展的第一年。在中国农业科学院党组的正确领导下,在农业部、科技部相关部门的关心支持下,我所继续以全面提高信息科技创新能力和公益服务能力为中心,以增强所整体实力为目标,大力加强学科建设、人才队伍建设与管理机制创新。在农业信息技术、农业信息管理、农业信息分析等学科领域取得了重要科研进展,并在农业信息资源建设、信息公益服务、农业科技期刊编辑等方面取得了显著成绩,高质量地完成了年初预定的各项科研及其他工作计划,保持了良好的发展势头和水平。

《农业信息技术与信息管理的》从2002年起每年公开出版一册。主要是将我所科研人员当年发表的学术论文和撰写的科技报告选编成册,以充分检阅和展示这些成绩,尊重和激励全所科研人员的创造性劳动,更广泛地宣传和应用好这些研究成果。

《农业信息技术与信息管理的(2006年)》集中反映了2006年我所在农业信息技术、农业信息管理、农业分析等学科领域的科研进展,收集了科研人员在农业信息系统管理、农业多媒体技术、农业信息网络技术、农业生产与管理信息技术、农业数据库建设、农业信息资源管理、农业信息化、食物与营养信息、食物安全预警、农产品供求分析、期刊编辑等方面的研究论文与探讨类文章。

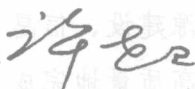
《农业信息技术与信息管理的(2006年)》共选编了我所研究人员本年度的论文与科技报告55篇,分农业信息化战略、农业信息技术、农业信息资源管理、农业科技期刊、农业信息分析与宏观农业5个

部分。

本书附录中收录了中国农业科学院农业信息研究所组织机构和负责人的名单,以及2006年部分在研课题、出版著作、获奖成果、登记的计算机软件等情况。2006年还选编了我所大事记,以进一步增强本书的纪实性。

为方便交流,收录的学术论文题目和作者采用了中英文两种文字。文中学术观点和其他文责由作者本人负责。我们希望,通过本书的出版,进一步得到社会各界对我们工作的关心与支持,不断提高我所的科技创新能力、公益服务能力和产业发展能力,也力图通过这种形式加强与科研同行的学术交流,共同为我国农业信息事业发展做出新的贡献。

中国农业科学院农业信息研究所所长



2007年3月20日

Foreword

The year of 2006 is the first year when the Agricultural Information Institute, Chinese Academy of Agricultural Sciences (AII-CAAS) enters an overall development in the “Eleventh Five-Year Plan” period. Under the correct leadership of the Party Group of the Chinese Academy of Agricultural Sciences and the concern and support by relevant departments of the Ministry of Agriculture (MOA) and Ministry of Science and Technology (MOST), the AII-CAAS has continued to focus on comprehensively improving the information sci-tech innovation capacity and public welfare service capacity of the Institute, taken the strengthening of the overall strength of the Institute as the objectives, and strengthened discipline construction, talent team construction and management mechanism in a big way. The AII-CAAS has gained important research progresses in agriculture IT, agricultural information management, agricultural information analysis and other disciplines. The AII-CAAS has gain significant achievements in agricultural information resources construction, information public welfare service, agricultural periodical editing, completed, with high quality, various kinds of research and other work plans preset at the beginning of the year, and maintained a good development momentum and level.

Since 2002, the monograph entitled “Agricultural Information Technology and Information Management” has been published each year. It mainly collects academic papers and sci-tech reports written by the research staff of the AII-CAAS, so as to review and demonstrate these achievements, show respect for and encourage the creative labor of all the staff, and propaganda and better apply these research achievements even more extensively.

The monograph entitled “Agricultural Information Technology and Information Management (2006)” has been published each year and centrally reflected the research progress of the AII-CAAS in agricultural information technology, agricultural information management, agricultural information analysis and other disciplines, and collected research

papers and discussion articles written by research staff in the aspects of agricultural information system management, agricultural multi-media technology, agricultural information network technology, agricultural production and management information technology, agricultural database construction, agricultural information resource management, IT application in agriculture, food and nutrition information, food safety warning, farm produce supply and demand analysis, agricultural periodical editing, etc.

The monograph entitled “Agricultural Information Technology and Information Management (2006)” has selected 60 papers and sci-tech reports written by the research staff of the AII-CAAS. It is broken down into 5 parts: strategy for IT application in agriculture, agricultural information technology, agricultural information resource management, agricultural science and technology periodicals, and agricultural information analysis and macro agriculture.

The appendixes of this monograph have collected a list of the institutional organization of the AII-CAAS and division responsible people, as well as partial on-going research projects, published monographs, prized research achievements, registered computer software packages, etc. The monograph entitled “Agricultural Information Technology and Information Management (2006)” has also compiled the chronicle of events of the AII-CAAS so as to further strengthen the records of actual events of this monograph.

For the convenience of communication, the academic papers in this monograph have both Chinese and English title and authors. The academic viewpoints and other paper responsibility in the paper will be taken care of by the authors. We hope that through the publication of this monograph, we can further get the concern and support of our work by all walks of life in the society, continue to improve our sci-tech innovation capacity, public welfare service capacity and industrial development capacity, strive to strengthen academic exchange with our sci-tech colleagues through this form and jointly make new contributions to the development of agricultural information sci-tech cause in China.

Director-General, *Xu Shiwei*

Agricultural Information Institute,
Chinese Academy of Agricultural Sciences (AII-CAAS)

March 20, 2007

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