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专题栏目主持人简介



于登云，中国科学院院士。空间飞行器系统工程、动力学与控制专家，深空探测和高轨道高分辨率遥感卫星领域领军者之一。在多引力场轨道动力学与控制、高轨微振动环境优化控制、复杂系统耦合动力学与控制等方面的理论方法与实践上取得了系统性、创造性成果，主持或参加了“嫦娥四号”“高分四号”“资源一号”等多个国家重大航天工程的研制，解决了人类首次月背着陆探测复杂约束下的轨道设计与控制、国际首颗高轨高分辨率遥感卫星高质量成像等一系列关键技术难题，为中国探月、高分等重大工程作出突出贡献。曾获国家科技进步特等奖2项、一等奖1项、三等奖1项，部级科技进步一等奖2项，国防技术发明二等奖1项。



王大轶，研究员，博士生导师，自动控制专业，2000年博士毕业于哈尔滨工业大学，现任北京空间飞行器总体设计部科技委主任；航天器自主运行技术领域学术带头人，长期从事自主导航和自主诊断重构技术研究；是国家杰青、国防卓越青年科技奖获得者，973项目和173重点项目技术首席专家，中国自动化学会空间无人系统自主运行技术专业委员会主任；获国家科技进步特等奖、国家技术发明二等奖、国防发明和进步一等奖、中国自动化学会自然科学一等奖、航天科技集团十大技术突破奖、中国科协求是杰出青年奖、何梁何利基金科技创新奖等；入选国家“万人计划”领军人才和国家百千万人才工程，享受国务院政府特殊津贴，是国家有突出贡献的中青年专家。



王永富，研究员，毕业于哈尔滨工业大学控制工程系飞行器导航制导与控制专业，获博士学位。曾任北京空间飞行器总体设计部副部长、科技委主任，五院钱学森空间技术实验室主任，现任航天科技创新研究院副院长。长期从事空间飞行器总体设计、航天装备体系设计，武器装备体系仿真技术研究。曾任总装卫星有效载荷技术专业组特邀专家，军863某专家组副组长。获国防科技进步二等奖2项，军队科技进步一等奖1项。

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Guest Editor Introduction



Yu Dengyun, Academician of the Chinese Academy of Sciences, specialist in space vehicle systems engineering, dynamics and control, and one of the leaders in deep space exploration and high-orbit high-resolution remote sensing satellites. He has made systematic and creative achievements in the theoretical methods and practices of multi-gravitational field orbital dynamics and control, high-orbit micro-vibration environment optimization control, and coupling dynamics and control of complex systems, has presided over or participated in the development of many national major aerospace projects, such as Chang’ E-4, Gaofen-4 and CBERS, and has solved a series of key technical problems, such as orbit design and control under the complex constraints of human’ s first lunar farside landing, and high-quality imaging of the world’ s first high-orbit high-resolution remote sent the National Science and Technology Progress Award, two first prizes of science and technology progress at the ministerial level, and one second prize of the National Defense Technology Innovation Awards.



Wang Dayi, Researcher and doctoral supervisor. He graduated from Harbin Institute of Technology with a Ph.D. degree in 2000, majoring in automatic control. He now serves as director of the Science and Technology Committee in Beijing Institute of Spacecraft System Engineering and an academic leader in the field of spacecraft autonomous operation technology who has long been engaged in the research of autonomous navigation and autonomous diagnosis reconstruction technology. He is the winner of the National Science Fund for Distinguished Young Scholars, the winner of National Science Fund for Distinguished Young Scholars and Excellence Youth Science Scholars, the chief technical expert of 973 Project and 173 Key Project, and director of the Professional Committee of Autonomous Operation Technology for Space Unmanned Systems of Chinese Association of Automation. He has won the special prize of the National Science and Technology Progress Award, the second prize of National Award for Technology Invention, the first prize of National Defense Technology Invention Award, the first prize of National Defense Science and Technology Progress Award, the first prize of National Science Award of Chinese Association of Automation, the Top 10 Technology Breakthrough Awards in CASC, and the “Qishi” Outstanding Youth Award of China Association for Science and Technology, and the Ho Leung Ho Lee Foundation Science and Technology Innovation Award. He has been selected as a leading talent of the National “Ten-thousand Talents Program”, and the National Hundred, Thousand and Ten Thousand Talents Project. He enjoys the special government allowance of the State Council, and is a brilliant expert with outstanding contributions to the country.



Wang Yongfu, Researcher, Ph. D. from the Department of Control Engineering, Harbin Institute of Technology, majoring in aircraft navigation guidance and control. He served as deputy director of Beijing Institute of Spacecraft System Engineering, director of the Science and Technology Committee, and director of Qian Xuesen Space Technology Laboratory of China Academy of Space Technology. He now works as executive vice president of the Aerospace Science and Technology Innovation Institute. He has long been engaged in the overall design of space vehicles, the design of aerospace equipment system, and the research on weapon equipment system simulation technology. He once served as a specially invited expert of the GAD satellite payload technology professional group, and deputy leader of an 863 expert group of the Army. He has won two second prizes of the National Defense Science and Technology Progress Award and one first prize of the Military Science and Technology Progress Award.