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Keynote Speech

4-D Development Mode of Reliability System Engineering

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Reliability System Engineering (RSE) is an integrated engineering technology which takes failure as the core issue, revealing the law of failure and providing techniques in failure prevention, failure control and repair. This talk will focus on the RSE and its development mode in four dimensions, i.e. system-wide, overall processes, full features and all around. Based on the development mode, many solutions of RSE and software reliability engineering which looked as a sub-set of RSE are introduced. To practice RSE, communication and collaboration are important factors of RSE. Some work of the School of Reliability and System Engineering, which contributes to the communication and collaboration between industry and academia, will be introduced in this talk too.

About the speaker

Professor Zili Wang is the President of the Institute of Reliability Engineering and is the Dean of the School of Reliability and Systems Engineering at Beihang University. He holds many positions, including director of the Reliability Center of China Aviation Industry Group Company, committee member of China Quality Society, committee member of China Aviation Society, and director of the China Aviation Society's Reliability Branch. He is also the technical chair of several national 973 projects. Professor Wang has been engaging in strategic planning, scientific research, personnel training, management consulting, and product technical support in the area of reliability systems engineering. He has led over ten key research projects, including national 973, fundamental research, and technology infrastructure projects, and has received 12 awards in science and technology. His current research directions include PHM, systems engineering, quality engineering, reliability engineering, and system performance-effects analysis.