

# Research Management

## Speaker:

Prof. Xie Ming

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## Description:

Today's economics is driven by innovations. Hence, knowledge-based economics is extremely important to the prosperity and competitiveness of a nation and a society. Most important, the engine behind innovation and technological advances is research. Therefore, how to efficiently manage research so as to widely unleash the creativity of scientists and researchers is a critical issue that a government's policy-makers must pay special attention. In this seminar of 2.5 hours, I will first share my own experiences as a researcher in high-tech companies, a scientist in high-profile institutions, and an educator in Nanyang Technological University. Then, I will talk about the following key points underlying research management: blueprint of value creation chain, blueprint of different types of institutions which have sustained research activities, the management of research manpower, the management of research resources, and the management of research outcomes, etc.

## Biodata of Speaker:



Xie Ming received the B.Eng degree in control and automation engineering. Subsequently, as a recipient of the overseas scholarship from Chinese government, he has completed the study for Master degree in the University of Valenciennes (France) as well as the research for PhD degree in the University of Rennes (France). He is Associate Professor of Nanyang Technological University, and was a Fellow with Singapore-MIT Alliance (SMA). He was the General Chair of 2007 International Conference on Climbing and Walking Robots (CLAWAR), the General Chair of 2009 International Conference on Intelligent Robotics and Applications (ICIRA), one Founding Editor-in-Chief of the International Journal of Humanoid Robotics (SCI/SCIE indexed), one Founding Vice-President of Singapore-China Association for Advancement of Science and Technology, the Founding President of Robotics Society of

Singapore. He has taught the courses such as Robotics, Artificial Intelligence, Applied Machine Vision, Measurement and Sensing Systems, Microprocessor Systems, and University Physics. In terms of scientific research, he has published two books, two edited books, several book chapters, over 10 patents of invention, over 30 research papers in scientific journals and over 100 research papers in international conferences. He was the recipient of one best conference paper award from World Automation Congress, the recipient of one best conference paper award from CLAWAR, the recipient of one outstanding paper award from International Journal of Industrial Robot, the recipient of one Gold Prize (S\$8K) from CrayQuest, the recipient of one Grand Champion Prize (S\$15K) from CrayQuest, the recipient of one A-Star's Best Research Idea Prize (S\$5K), the recipient of one Silver Medal from Dragon Design Foundation.