

講演会のご案内

THOUGHTS IN CONTROL EDUCATION

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(IEEE Fellow, IFAC Fellow)

場所: 上智大学 図書館 L921室

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ABSTRACT:

In this talk, we examine our effort in bringing optimal and robust control into undergraduate control education. Two topics will be presented:

1. Robust control for dummies
2. Servo control for smarties

In the first topic, we will see how system uncertainty can be modelled by a quad of perturbations so a rather easy robust control analysis and synthesis theory emerges.

In the second topic, we will see how the optimal design problem of 2DOF tracking controllers can be formulated and solved using a polynomial approach.



BIOGRAPHY OF LI QIU

Li Qiu received his Ph.D. degree in electrical engineering from the University of Toronto in 1990. After briefly working in the Canadian Space Agency, the Fields Institute for Research in Mathematical Sciences (Waterloo), and the Institute of Mathematics and its Applications (Minneapolis), he joined Hong Kong University of Science and Technology in 1993, where he is now a Professor of Electronic and Computer Engineering.

Prof. Qiu's research interests include system, control, information theory, and mathematics for information technology, as well as their applications in manufacturing industry and energy systems. He is also interested in control education and coauthored an undergraduate textbook "Introduction to Feedback Control" which was published by Prentice-Hall in 2009. This book has so far had its North American edition, International edition, and Indian edition. The Chinese Mainland edition is to appear soon. He served as an associate editor of the *IEEE Transactions on Automatic Control* and an associate editor of *Automatica*. He was the general chair of the 7th Asian Control Conference, which was held in Hong Kong in 2009. He was a Distinguished Lecturer from 2007 to 2010 and is a member of the Board of Governors in 2012 of the IEEE Control Systems Society. He is the founding chairperson of the Hong Kong Automatic Control Association, serving the term 2014-2017. He is a Fellow of IEEE and a Fellow of IFAC.