



IEEE ICMA 2006 Tutorial Workshop

Iterative Learning Control

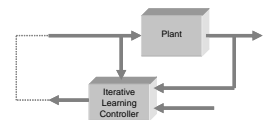
Algebraic Analysis and Optimal Design

Presenters: Kevin L. Moore, Colorado School of Mines, USA
YangQuan Chen, Utah State University, USA

Contributor: Hyo-Sung Ahn, ETRI, Korea

IEEE 2006 International Conference on Mechatronics and Automation
LuoYang, China

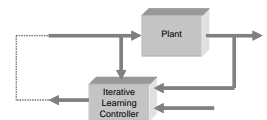
25 June 2006





Workshop Overview

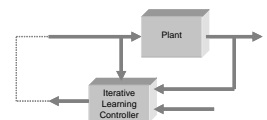
- The purpose of this workshop is to present a unified exposition of recent advances in ILC analysis and design.
- We present an integrated view of our collaborative research on theoretical aspects of ILC that has developed over several years into a systematic methodology.
- The workshop presents an advanced and systematic focus on the algebraic approach to ILC analysis and on the optimal robust design of ILC algorithms, both of which have developed since a 2000 CDC workshop on ILC fundamentals.
- The underlying theme is on ILC as a mature design methodology with significant demonstration of, and further potential for, actual implementations with clearly visible returns in terms of improved performance.





Workshop Schedule

Time	Topic	Presenter
14:00-14:10	Welcome and Introduction	K. Moore
14:10-14:55	Part 1: Introduction to the Algebraic Approach to ILC	K. Moore
14:55-15:40	Part 2: Optimal Design of ILC Algorithms	Y.Q. Chen
15:40-16:00	Break	
16:00-16:45	Part 3: ILC Applications	Y.Q. Chen
16:45-17:30	Part 4: Robust ILC	K. Moore





Contact Information



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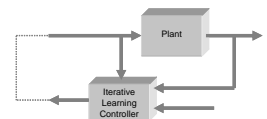
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Colorado School of Mines

Located in Golden, Colorado, USA
10 miles West of Denver



CSM sits in the foothills of the Rocky Mountains

CSM has about 300 faculty and 4000 students

CSM is a public research institution devoted to engineering and applied science, especially:

- Discovery and recovery of resources
- Conversion of resources to materials and energy
- Utilization in advanced processes and products
- Economic and social systems necessary to ensure prudent and provident use of resources in a sustainable global society

Utah State University

Located in Logan, Utah, USA
80 miles North of Salt Lake City



18,000 students study at USU's Logan campus, nestled in the Rocky Mountains of the inter-mountain west

CSOIS is a research center in the Department of Electrical and Computer Engineering

