



MODEL PREDICTIVE CONTROL IN BUILDINGS WORKSHOP

MONTREAL, JUNE 24-25, 2011

CALL FOR PRESENTATION PROPOSALS

The promise of harnessing the predictive and diagnostic powers of a well-calibrated building energy model for improved building operations is attracting a growing number of researchers around the globe. IBPSA-USA and IBPSA-Canada invite you to join a two-day workshop on model predictive control (MPC) in buildings that will serve as a forum for lively dialogue on different approaches, applications, and field experiences. The event will feature a series of technical presentations, selected by a Scientific Committee of internationally recognized domain experts, as well as time for networking and exchange. It will close with a roundtable discussion to define future research needs and highlight opportunities for collaboration and business applications. The Scientific Committee will then invite 5 to 7 presenters to submit manuscripts to be published in a 2012 Special Issue of the Journal of Building Performance Simulation (JBPS) on "MPC in Buildings."

Timeline

March 15	Proposals (title, abstract, author, affiliation) due
April 15	Proposal acceptances

Workshop schedule

Friday	June 24	3pm - 6pm	Presentations
		6pm - 9pm	Group dinner (self-pay)
Saturday	June 25	9am - 12pm	Presentations
		12pm - 1pm	Lunch (provided)
		1pm - 3pm	Roundtable discussion

Possible areas of interest include

• Model calibration, mismatch management	• Model complexity	• Computing platform issues
• Simulation speed for real-time implementation	• Field implementations	• Optimization techniques

Scientific Committee

Johan Åkesson	Lund University, Sweden
Andreas Athienitis	Concordia University, Canada
Ian Beausoleil-Morrison	Carleton University, Canada
Francesco Borrelli	UC Berkeley, USA
Clemens Felsmann	TU Dresden, Germany
Jan Hensen	TU Eindhoven, Netherlands
Colin Jones	EPFL, Switzerland
Michael Kummert	Ecole Polytech., U Montreal, Canada
Ardeshir Mahdavi	TU Vienna, Austria
Yasuo Utsumi	Sendai National College of Tech., Japan
Shengwei Wang	Hong Kong University

Workshop Chair

Gregor Henze U Colorado, USA

Organizing Committee

Brian Coffey	UC Berkeley, USA
Peter May-Ostendorp	U Colorado, USA
Meli Stylianou	Natural Resources Canada

Registration Fee

\$25, collected at the door

Presentation Proposals and General Inquiries

MPCworkshop@gmail.com

Workshop Location Room EV2.184

Engineering, Computer Science and Visual Arts Integrated Complex
Concordia University, 1515 Saint Catherine W., Montreal, Quebec

This event is endorsed by
IBPSA-USA and IBPSA-Canada.
It is scheduled to occur directly before
the IBPSA-USA biannual meeting.



Limited space will be available for registrants without presentations. A call for general registration will follow.