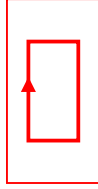
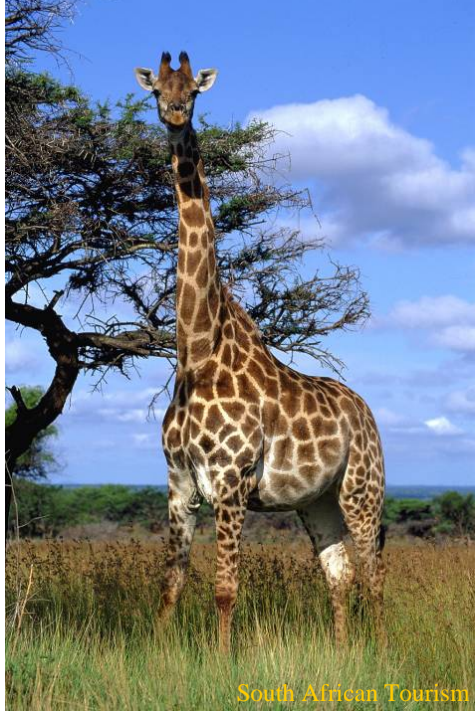


Mrs Yougie Veeran  
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SOUTH AFRICA

**Programme Committee**

**Chairs** Jon Tapson (ZA)  
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**Members** Ian Craig (ZA)  
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UNIVERSITY OF  
KWAZULU-NATAL

South African Council for Automation and Computation  
SACAC Control Conference  
2006

6 & 7 July 2006  
University of KwaZulu Natal  
DURBAN  
SOUTH AFRICA

**Preliminary Technical Programme  
08h00-17h00, 7 July**

Advanced process control solutions: The users' needs	S. B. Madolo
Multivariate economic performance assessment of an electric arc furnace	Donghui Wei, Ian K. Craig, and Margret Bauer
Non-model based perturbation extremum seeking control method for a batch crystallization process	M. Sheikhzadeh, A. Jutan, S. Rohani, and J. Welsh
Control of a batch reactor in the precious group metals industry	Roanne Lahee
Robust control of a once-through boiler during hot start up	Dunn Mukosa, Edward Boje, Eduard Eitelberg
Robust MPC of a run-of-mine ore milling circuit	L.C. Coetzee I.K. Craig
Output regulation of nonlinear systems in the form of measured output feedback	X. Zhuan, X. Xia
On the choice of closed-loop block poles in multivariable control design	Kessal Farida and Prof. Hariche Kamel
On model error reduction of the classical observer-based state-feedback controller	L. Keviczky and Cs. Bányász
Chaos synchronization of coupled electromechanical systems with multiple functions	Samuel Bowong and Xiaohua Xia
Engineering an iterative feedback controller	Hsin-Yu Wei, S.I.Ginsberg and M.Braae
Macro-dynamic price and production cycles	Ed Eitelberg
Estimating the profit of advanced process control as a function of standard deviation	Margret Bauer and Ian K. Craig
Disturbance observer based sliding mode control for an active magnetic bearing system subject to base motion	Min Sig Kang and Joon Lyoo
Direct torque control of PMSM drive with constant switching frequency	M. Kadjoudj, N. Golea, M.E.H.Benbouzid
Position control and tracking of a solar parabolic trough	P.Naidoo and T.I. van Niekerk
An attitude control system for ZA-002 South Africa's second earth observation satellite	Willem H. Steyn
A feedback stabilized adaptive sonar amplifier	J. Tapson

To facilitate an early start of the regular paper sessions on 7 July, an industry site visit to a large highly automated brewery and conference social are planned for 6 July. The brewery tour has a restricted number of participants. The dinner will be at a dockside restaurant.

Further information will be available on [www.sacac.org.za](http://www.sacac.org.za)

**South African Council for Automation and Computation - SACAC**

SACAC was formed in 1961. Its primary mission is to promote the multi-disciplinary sciences of computation, automation and control and their application to industry in Southern Africa. It comprises over 50 corporate and institutional members representative of leading corporations, tertiary educational establishments, professional institutions, research organisations and private companies involved in computation, automation and control.

SACAC is the nominated National Member Organisation for South Africa to the International Federation of Automatic Control.

**General**

The city of Durban is situated on the East Coast of South Africa. The Zulu name for Durban is eThekweni, which means 'The place where the earth and the ocean meet', and it is the busiest container port in the Southern Hemisphere (and in Africa). Durban has a warm climate that makes it one of the most popular coastal holiday resorts in the country. The weather in July is mild, with average minimum and maximum temperatures of 13°C and 21°C. Durban is close to other tourist attractions including game reserves and the Drakensberg mountains.

**SACAC Control Conference '06  
University of KwaZulu Natal  
Durban, South Africa  
6&7 July 2006**

Surname .....

First Name .....

Title .....

Company .....

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Please invoice me as follows:

	≤ 23 June		> 23 June	
Full conference fee	R1300.00	<input type="checkbox"/>	R1500.00	<input type="checkbox"/>
SACAC/SAIMC fee	R1000.00	<input type="checkbox"/>	R1200.00	<input type="checkbox"/>
Restricted fee for full time students	R300.00	<input type="checkbox"/>	R400.00	<input type="checkbox"/>
Dinner 6 July (Accompanying persons & delegates not paying full fee)	R200.00	<input type="checkbox"/>	# persons	<input type="checkbox"/>
SA Breweries tour 6 July 14h00	-		# persons	<input type="checkbox"/>