



The 22nd Annual
International Symposium
of the Pattern Recognition
Association of South
Africa

22 - 25 November

presented by:
HyperVision Research Laboratory
of the
University of Johannesburg

Conference Program 2011

Tuesday, 22 November 2011

16:00 – 18:00	Registration
19:00 – Late	Dinner

Wednesday, 23 November 2011

07:45 – 08:15	Registration
08:15 – 08:30	Welcome
08:30 – 10:00	Keynote: Prof. N Gans, "Vision-Based Control Beyond Position and Velocity Regulation"
10:00 – 10:30	Tea
10:30 – 12:00	Session 1: Image Processing and Computer Vision 1 Chair: Andre Nel
	Jason de Villiers, "The effects of lens distortion calibration patterns on the accuracy of monocular 3D measurements"
	Martin Wilson, "Coded Aperture and Coded Exposure Photography"
	Dan Golding, "A Comparison of Methods for the Registration of Tractographic Fibre Images"
12:00 – 13:30	Jaco Cronje, "BFROST: Binary Features from Robust Orientation Segment Tests accelerated on GPU"
	Lunch
13:30 – 15:00	Session 2: Pattern Recognition Applications 1 Chair: Etienne Barnard
	Abdul Mohamed, "Towards Improved EEG Interpretation for the Control of a Prosthetic/Orthotic Hand using a BCI: single-trial right and left hand discrimination"
	Etienne Barnard, "Who is reading this page?"
	Corne De Ridder, "Cascading Finite Automata for Minisatellite Detection"
15:00 – 15:30	Justin Aime Weyepe Tina, "Implementation of a Gap Recorder for Measuring Impulse Noise Distributions on Power Line Communications Using Fritchman Model"
	Tea
15:30 – 17:20	Session 3: Pattern Recognition Applications 2 Chair: Fred Nicholls
	Leandra Webb, "Use of flat-field correction and adaptive linear interpolation to improve mammography image quality"
	Ross Lagerwall, "Plant Classification Using Leaf Recognition"
	Reolyn Heymann, "Correcting Inversion and Synchronization Errors Using Binary Neural Networks"
17:20 – 19:00	Baruch Lubinsky, "Fast Implementation of the FRAME Algorithm using a GPU Gibbs Sampler"
	Poster Session
19:00 – Late	Annual Conference Dinner



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Thursday, 24 November 2011

	Kilimanjaro 1	Kilimanjaro 2
8:30 – 10:00	Session 4: Image Processing and Computer Vision 2	
	Chair: Jason de Villiers	
	Inger Fabris-Rotelli, "The Discrete Pulse Transform for Images with Entropy-Based Feature Detection"	Session 5: Speech and Language 1
	Simon Muller, "Graph Cut Segmentation of Range Images into Planar Regions"	Chair: Daniel van Niekerk
	Jonathan Parker, "Variational Level Set Formulation with Characterisation of regions by Generalised Gaussian distribution"	Marissa Griesel, "Mobile Short Message Filtering for the South African Context"
	Daniek Joubert, "A Mesh-based Approach to Incremental Range Image Integration"	Dirk Snyman, "Automatic Genre Classification for Resource Scarce Languages"
	Jaco Badenhorst, "Trajectory behaviour at different phonemic context sizes"	Oluwapelumi Giwa, "A Southern African corpus for multilingual name pronunciation"
10:00 – 10:30	Tea	
10:30 – 12:20	Session 6: Speech and Language 2	
	Chair: Marelle Davel	
	Herman Kamper, "Accent reclassification and speech recognition of Afrikaans, Black and White South African English"	
	Mpho Kgampe, "The predictability of name pronunciation errors in four South African languages"	
	Mpho Raborife, "Developing a Corpus to Verify the Performance of a Tone Labelling Algorithm"	
	Daniel van Niekerk, "Experiments in rapid development of accurate phonetic alignments for TTS in Afrikaans"	
	Charl van Heerden, "Processing Spoken Lectures in Resource-Scarce Environments"	
12:20 – 14:00	Lunch	
	Session 7: Image Processing and Computer Vision 2	
	Chair: Jules Tapamo	
	Pierre Joubert, "Scene Reconstruction from Uncontrolled Motion using a Low Cost 3D Sensor"	
	Wikus Brink, "Stereo Vision as a Sensor for EKF SLAM"	
	Natasha Govender, "Recognition of Arbitrary 2D Shapes for Pick and Place Solutions using Robot Manipulators"	
	Thulani Ndhlovu, "Using temporal seeding to constrain the disparity search range"	
15:30 – 16:00	Tea	
16:60 – 17:00	PRASA Annual General Meeting	
18:00 – Late	Bush Braai Experience	

Friday, 25 November 2011

08:00 – 10:00	Breakfast and Departure
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