

14th IMA Conference on Mathematics of Surfaces
Wednesday 11 - Friday 13 September 2013, University of Birmingham

PROGRAMME

Wednesday 11 September		
08:30 – 09:15	Registration	
09:15 – 10:00	Invited talk: Fast Low-discrepancy Sampling of Parametric Surfaces and Meshes	R. R. Martin , J. A. Quinn, F. C. Langbein, Y.-K. Lai
10:00 – 10:30	Simultaneous registration of multi-view range images with adaptive kernel density estimation	S. McDonagh, R. B. Fisher
10:30 – 11:00	Using Scaled Embedded Distances to Generate Metrics for $\mathbb{R}^2$	M. Kapl, F. Aurenhammer, B. Jüttler
11:00 – 11:30	Tea/Coffee Break	
11:30 – 12:00	Beppo Levi polyspline surfaces	A. Bejancu
12:00 – 12:30	Möbius-invariant surface energies and ridges	S. Yoshizawa, A. Belyaev
12:30 – 14:00	Lunch Break	
14:00 – 14:45	Invited talk: A final contribution to 3D parametric curve modelling	A. A. Ball
14:45 – 15:15	The construction of nearly arc length single segment and piecewise rational Bézier parameterisations of special curves	A. Carter, H. Bez
15:15 – 15:45	Model selection for the Dubuc-Deslauriers family of subdivision schemes	G. Mustafa, I. Ivrişimtzis
15:45 – 16:15	Tea/Coffee Break	
16:15 – 16:45	The development of polynomial approximations to generalised cornu spiral segments	B. Cross, R. J. Cripps
16:45 – 17:15	Sketching and editing B-spline curves using constraints with local influence	J. G. Lambourne, D. Bruijic, M. Ristic

Informal dinner - Lucas Restaurant – 19:00

Thursday 12 September		
09:15 – 10:00	Invited talk: Polyhedral Mesh Modeling	H. Pottman
10:00 – 10:30	Biquintic G^2 surfaces	K. Karčiauskas, J. Peters
10:30 – 11:00	Constructions of principal patches of Dupin cyclides defined by constraints	L. Garnier, L. Druoton
11:00 – 11:30	Tea/Coffee break	
11:30 – 12:00	Second Order Geometric Hermite Surface Interpolation	G. Valasek, J. Vida
12:00 – 12:30	Transfinite surface interpolation over specific curvenet configurations	P. Salvi, T. Várady, A. Rockwood
12:30 – 14:00	Lunch break	
14:00 – 14:45	Invited talk: Quantum Splines	R. Goldman
14:45 – 15:15	Reconstructing swept surfaces from measured data	I. Kovács, T. Várady
15:15 – 15:45	Derivatives of isogeometric test functions	T. Takacs, B. Jüttler
15:45 – 16:15	Tea/Coffee break	
16:15 – 16:45	Surface modelling and characterization of forming shoulders	B. J. Hicks, G. Mullineux
16:45 – 17:15	Optimizing subdivision solvers of piecewise polynomial systems	J. Mizrahi, G. Elber, Y.J. Kim

Informal dinner - Lucas Restaurant – 19:00

Friday 13 September		
09:30 – 10:00	Travel from University of Birmingham to Delcam	
10:00 – 10:45	Invited talk: Engineering of Surfaces	S. Hobbs
10:45 – 11:00	Tea/Coffee break	
11:00 – 14:00	Introduction to Delcam followed by tours/demonstrations/lunch	
14:00 – 14:30	Travel back to University of Birmingham via <i>Birmingham New Street Station</i>	

End of conference