

**PRELIMINARY SCIENTIFIC PROGRAMME**  
**International Workshop on Spatio-Temporal Modelling (METMA3)**

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**Tuesday, 26th September**

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18:30 – 20:30 Registration

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**Wednesday, 27th September**

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08:30 - 09:30 Registration  
09:30 - 10:00 Welcome: Opening Session

10:00 - 11:00 OPENING CONFERENCE (Chair: María Durbán)  
**Noel Cressie** (Ohio State University)  
*Spatio-temporal satellite data processing*

11:00 - 11:30 Coffee Break

11:30 - 12:15 INVITED SESSION 1 (Chair: Noel Cressie)  
**Charmaine Dean** (Simon Fraser University)  
*Spatial and mixture models for the analysis of recurrent events*  
12:15 - 13:00 **Jay Ver Hoef** (National Marine Mammal Laboratory)  
*Space-time zero-inflated count models of harbor seals*

13:00 - 14:30 Lunch time

14:30 - 16:10 Contributed Papers (Chair: Lola Ruiz-Medina)

- Sujit K. Sahu, **Orietta Nicolis**: *A spatio-temporal model for particulate matter monitored from a heterogeneous network*
- **Petrutza C. Caragea** and Mark S. Kaiser: *Detection of temporal changes in spatial dependence*
- **Arminda Manuela Gonçalves** and Teresa Alpuim: *Spatio-temporal modelling in the analysis of water quality data*
- **Rosaria Ignaccolo**, Orietta Nicolis and Stefano Bande: *Spatio-temporal modelling with exogenous variables for PM<sub>10</sub> in Piemonte*

16:10 - 16:40 Coffee/Tea Break (Poster Placement)

16:40 - 18:20 Contributed Papers (Chair: Marc Genton)

- Chiara Bocci, **Alessandra Petrucci** and Emilia Rocco: *An application of geographically weighted regression to agricultural data for small area estimates*
- **Chrysoula Dimitriou-Fakalou**: *Modelling data observed irregularly over space and regularly in time*
- **Lorenzo Fattorini**: *Performing Horvitz-Thompson estimation in spatial sampling: a computer-intensive perspective for complex schemes*
- **Liliane Bel**, J. N. Bacro and Ch. Lantuéjoul: *Estimation of the extremal coefficient function of a stationary random field. Application to rainfalls maxima*

19:30 Social Activity (Informal getting together)

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**Thursday, 28th September**

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	INVITED SESSION 2	(Chair: Angela Diblasi)
08:30 - 09:05	<b>Lola Ruiz Medina</b> (University of Granada) <i>Functional estimation of spatiotemporal heterogeneities</i>	
09:05 - 09:40	<b>Marc Genton</b> (Texas A&M University) <i>Space-time separability</i>	
09:40 - 10:15	<b>Wenceslao González - Manteiga</b> (Santiago de Compostela University) <i>Comparing spatial dependence structures</i>	

10:15 - 11:50 Posters Session (with Coffee/Tea)

	INVITED SESSION 3	(Chair: Adrian Bowman)
11:50 - 12:25	<b>María Durbán</b> (Carlos III University) <i>Multidimensional P-spline mixed models: A unified approach to smoothing on large grids</i>	
12:25 - 13:00	<b>Youngjo Lee</b> (Seoul National University) <i>H-likelihood approach to spatio-temporal modelling</i>	

13:00 - 14:30 Lunch time

14:30 - 16:10	Contributed Papers	(Chair: Wenceslao González-Manteiga)
	<ul style="list-style-type: none"><li>• <b>Mark J Brewer</b>: <i>Variable smoothing in Bayesian spatial modelling</i></li><li>• <b>M. Salomé Cabral</b>, M. Helena Gonçalves, P. Duarte-Rodrigues and M. Manuela R. Branco: <i>Mixed models approach to estimate time series: modeling the environmental effect on the honeybee egg laying activity</i></li><li>• <b>Lieven Clement</b> and Olivier Thas: <i>Nonparametric trend detection in spatio-temporal river monitoring networks</i></li><li>• <b>Vera Pawlowsky-Glahn</b>, R. Tolosana-Delgado, J.J. Egozcue: <i>Simplicial indicator kriging</i></li></ul>	

16:15 Social Activity (Excursion)

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Friday, 29th September

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08:30 - 09:00	INVITED SESSION 4 <b>Ying MacNab</b> (University of British Columbia) <i>Spline smoothing in Bayesian disease mapping</i>	(Chair: Antonio López)
09:00 - 09:30	<b>Andrew Lawson</b> (University of South Carolina) <i>Developments in Spatio-temporal Modelling for Disease Cluster Surveillance</i>	
09:30 - 10:00	<b>Juan J. Abellán</b> (Imperial College) <i>Multivariate Bayesian modelling of several diseases in space and time</i>	
10:00 - 10:25	Coffee/Tea Break	
10:25 - 10:55	<b>Sylvia Richardson</b> (Imperial College) <i>Analysis of space time patterns of disease risk</i>	
10:55 - 11:20	<b>Discussant: Charmaine Dean</b>	

11:20 - 13:00	Contributed Papers <ul style="list-style-type: none"><li>• M. D. Ugarte, A. F. Militino and <b>Tomás Goicoa</b>: <i>Are second-order approximations necessary to calculate prediction errors in empirical Bayes disease mapping?</i></li><li>• <b>Geir Aamodt</b>, Sven Ove Samuelsen and Anders Skrondal: <i>A simulation study of three methods for detecting disease clusters</i></li><li>• <b>Annibale Biggeri</b>, D. Catelan, E. Dreassi, C. Lagazio, L. Rinaldi, G. Cringoli: <i>Multivariate spatially structured variability of ovine parasitic infections</i></li><li>• <b>Virgilio Gómez-Rubio</b> and A. López-Quílez: <i>Empirical and full Bayes estimators for disease mapping</i></li></ul>	(Chair: Sylvia Richardson)
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13:00 - 15:20	Social Activity (Town Hall)	
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15:20 - 15:55	INVITED SESSION 5 <b>Jorge Mateu</b> (University Jaume I) <i>A deeper look at some properties of space-time covariance functions</i>	(Chair: José Miguel Angulo)
15:55 - 16:30	<b>Eric Renshaw</b> (University of Strathclyde) <i>Inferring the space-time growth-interaction structure of marked point processes from partial observations</i>	

16:30 - 17:00	Coffee/Tea Break	
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17:00 - 18:40	Contributed Papers <ul style="list-style-type: none"><li>• <b>Aila Särkkä</b>: <i>Modelling growth of trees by space-time growth-interaction processes</i></li><li>• <b>Janine B. Illian</b>: <i>Combining geostatistical and point process modelling</i></li><li>• <b>Michaela Prokešová</b>, Gunnar Hellmund, Eva Vedel Jensen: <i>Lévy based Cox processes for spatio-temporal modelling</i></li><li>• <b>Lionel Cucala</b>: <i>Intensity estimation for spatial point processes observed with noise</i></li></ul>	(Chair: Eric Renshaw)
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21:00	Social Activity (Workshop Dinner)	
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Saturday, 30th September

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9:15	Post-Workshop Social Activity (Guggenheim Museum)	
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