

MaxEnt 2008

28th International Workshop on Bayesian Inference and Maximum Entropy Methods in Science and Engineering

July 06-11, 2008 – Boracéia Beach, SP – Brasil

Preliminary Program

Sunday July 6, 2008

8:30 – 17:45 *Registration*

Tutorials

9:30 – 10:45 Nestor Caticha: “Statistics Mechanics of the Information Processing”

10:45 – 11:00 *Break*

11:00 – 12:15 Ariel Caticha: “Lectures on Probability, Physics and Entropy”

12:15 – 14:00 *Lunch*

Tutorials

14:00 – 15:00 Julio Stern: “Cognitive Constructivism and the Epistemic Significance of Sharp Statistical Hypotheses”

15:00 – 15:15 *Break*

15:15 – 18:00 Marlos Viana: “Symmetry Studies of Entropy”

Welcome Reception

18:00 – 20:00 **Welcome Reception**

Monday July 7, 2008

8:00 – 17:45 *Registration*

Welcome:

8:45 – 9:00 *Welcome*

9:00 – 9:15 Rector of the University of Sao Paulo, or her deputy

Session 1: Invited Speaker: Kevin Knuth

9:15 – 10:10 Talk: “Lattice duality: The origin of probability and entropy”

10:10 – 10:40 *Break*

10:40 – 11:10 Oral communication 1

11:10 – 11:40 Oral communication 2

11:40 – 12:10 Oral communication 3

12:10 – 14:00 *Lunch*

Session 2: Invited Speaker: Eytan Domany

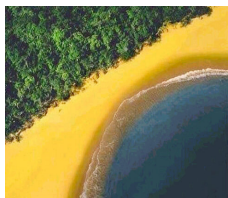
14:00 – 15:00 Talk: “Clustering and Sorting: Application to Biological Data”

15:00 – 15:30 *Break*

15:30 – 16:00 Oral communication 4

16:00 – 16:30 Oral communication 5

16:30 – 17:00 Oral communication 6



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Tuesday July 8, 2008

Session 3: Invited Speaker: Luis Raúl Pericchi

9:00 – 10:00 Talk: “Model Selection and Hypothesis Testing based on Objective Probabilities and Bayes Factors”

10:00 – 10:30 *Break*

10:30 – 11:00 Oral communication 7

11:00 – 11:30 Oral communication 8

11:30 – 12:00 Oral communication 9

12:00 – 14:00 *Lunch*

Session 4: Invited Speaker: John Skilling

14:00 – 15:00 Talk: “The canvas of rationality”

15:00 – 15:30 *Break*

15:30 – 16:00 Oral communication 10

16:00 – 16:30 Oral communication 11

16:30 – 17:00 Oral communication 12

Poster Session

17:00 – 19:00 **Poster Session***

Wednesday July 9, 2008

Session 5: Invited Speaker: Michel Petitjean

9:00 – 10:00 Talk: “An Asymmetry Coefficient for Multivariate Distributions”

10:00 – 10:30 *Break*

10:30 – 11:00 Oral communication 13

11:00 – 11:30 Oral communication 14

11:30 – 12:00 Oral communication 15

12:00 – 14:00 *Lunch*

Session 6: Invited Speaker: Manfred Opper

14:00 – 15:00 Talk: “Approximate Inference for partly observable continuous time Markov processes”

15:00 – 15:30 *Break*

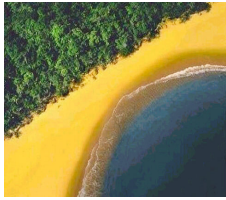
15:30 – 16:00 Oral communication 16

16:00 – 16:30 Oral communication 17

16:30 – 17:00 Oral communication 18

Poster Session

17:00 – 19:00 **Poster Session***



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Thursday July 10, 2008

Session 7: Invited Speaker: Shu-Kun-Lin

9:00 – 10:00 Talk: “Review on the Gibbs Paradox”

10:00 – 10:30 *Break*

10:30 – 11:00 Oral communication 19

11:00 – 11:30 Oral communication 20

11:30 – 12:00 Oral communication 21

12:00 – 14:00 *Lunch*

Session 8: Invited Speaker: Wagner Borges

14:00 – 15:00 Talk: “Reliability and Risk Analysis”

15:00 – 15:30 *Break*

15:30 – 16:00 Oral communication 22

16:00 – 16:30 Oral communication 23

16:30 – 17:00 Oral communication 24

Banquet

18:00 – 21:30 Banquet

Friday July 11, 2008

Session 9: Invited Speaker: Carlos Alberto de Bragança Pereira

9:00 – 10:00 Talk: “Can a Significance Test be Genuinely Bayesian?”

10:00 – 10:30 *Break*

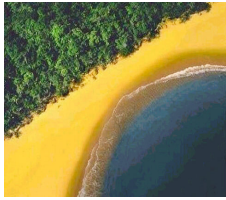
10:30 – 11:00 Oral communication 25

11:00 – 11:30 Oral communication 26

Business Meeting

11:35 – 12:30 *Business Meeting*

12:30 – 14:00 *Lunch*



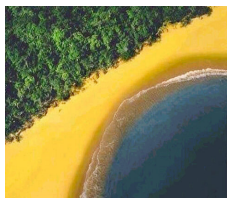
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Oral Communications:

1. Araceli Proto, Claudia Sarris And Francisco Redelico. Maxent Formalism In Quantum Dynamics
2. Carla Maria C. C. Koike. Proscriptive Bayesian Programming And Maximum Entropy Learning: A Preliminary Study
3. Adom Giffin And Carlo Cafaro. . A Maximum Relative Entropy Characterization Of Complexity On Curved Statistical Manifolds
4. Nabin Malakar And Kevin Knuth. The Field Of A Permanent Magnet: A Challenge For Competing Models
5. Ali Mohammad-Djafari. Dirichlet Or Potts ?
6. Lucien Preuss. The Dimension Of Information
7. Deniz Gencaga, Duane F. Carbon And Kevin Knuth. Characterization Of Interstellar Organic Molecules
8. Lucien Lemmens. Quality Control In Small Groups
9. Paul Goggans And Chung-Yong Chan. Antenna Array Design As Inference
10. Julian Center. Annealed Adaptive Importance Sampling
11. Nikolai Kolev And Flavio H. Ferreira. A New Measure Of Bivariate Asymmetry And Its Evaluation
12. Ali E. Abbas, Eszter Gselmann, Gyula Maksa And Zhengwei Sun. General And Continuous Solutions Of The Entropy Equation
13. Udo Toussaint, Thomas Schwarz-Selinger And Silvio Gori. Optimizing Nuclear Reaction Analysis (Nra) With Bayesian Experimental Design
14. Dirk Dodt, Andreas Dinklage, Rainer Fischer, Klaus Bartschat And Oleg Zatsarinny. Influence Of Uncertain Atomic Data On The Reconstruction Of Electron Energy Distribution Functions From Optical Emission Spectroscopy
15. Valerie Girardin And Andre Sesboue . Maximizing The Entropy Rate Of State-Dependent M/M/1 Queues
16. Carolus Boekema And M. C. Browne. Maxent-Burg Applications To Muon-Spin Resonance
17. Hacheme Ayasso, Sophia Fekih-Salem And Ali Mohammad-Djafari. Variational Bayes Approach For Tomographic Reconstruction

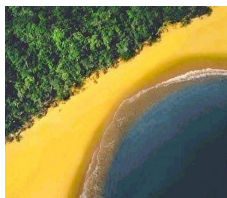


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18. Alberto Solana Ortega And Vicente Solana. On The Formal Expression Of Observational Data In Scientific Inference: Ambiguities And Confusions
19. Laura Rifo And Soledad Torres. Full Bayesian Analysis For A Class Of Jump-Diffusion Models
20. Koki Kyo And Hideo Noda. Bayesian Analysis Of The Dynamic Structure In China'S Economic Growth
21. Nicolás Von Ellenrieder And Carlos Muravchik. Maximum Entropy Moments Based Approximations Of The Cramer-Rao Bound
22. Marcio Diniz, Carlos Pereira And Julio Stern. Fbst For Cointegration Problems
23. Adriano Polpo, Marcos Coque Jr And Carlos Pereira. Parallel System Using Weibull Model
24. Ernesto C. Colla And Julio M. Stern. Sparse Factorization Methods For Inference In Bayesian Networks
25. Anatoli Iambartsev And Eugeny Pechersky. Gibbs Field With Periodical External Field (One Test Model In Image Processing)
26. Francisco Louzada-Neto, Gladys Barriga And Vicente Cancho. A New Lifetime Distribution



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Poster Contributions:

1. Alex Susemihl And Nestor Caticha. Invariant Pattern Recognition
2. Carlo Cafaro. Recent Theoretical Progress On An Information Geometrodynamical Approach To Chaos
3. Carlos Diniz, Josmar Mazucheli And Camila Rodrigues. The Lag Length Determination In A Distributed Lag Model Via Reversible Jump Technique
4. D. A. B. Oliveira, M. M. G. Macedo, Marcio P. Albuquerque And Marcelo P. Albuquerque. Computer Tomography Images Analysis Using Tsallis Entropy
5. Denis Santos And Eufrazio Santos. Aplicação De Filtros Bayesianos Em Imagens Médicas Digitais
6. E. Al-Shemary, B. Al-Kanimy, H. Al-Mamory. Palm Print Recognition Based On Winner Take All Neural Network
7. Fábio M. Mendes And Anníbal Figueiredo. A Field-Theoretical Analysis Of A Time Series Trend And Volatility
8. Feruccio Bilich And Ricardo Dasilva. Maximum Entropy Principle For Transportation
9. Gustavo L. Gilardoni. Bayesian Inference For Overlapping Power Law Processes
10. Jaime Rodriguez And Rafael M. Gutierrez. Von Neumann Entropy In A Spin Star Network: An Information Approach
11. Jorge Enrique Ruiz Trujillo, Rafael M. Gutierrez And Ginna Useche. Relative Entropy Based Study Of Emerging And Mature Markets Using The Heston Volatility Model
12. Jose Siqueira And Hellinton Takada. On The Black-Scholes-Merton European Option Pricing Model Robustness And Generality
13. Julian Center. Bayesian Methods For Combining Population Moments And Samples
14. M.S. Lauretto and J.M.Stern. Polynomial Networks: A Case Study In Sales Forecasting
15. Marcelo Boareto, Michel Yamagishi, Nestor Caticha And Vitor Leite. Enzyme Classification From Protein Structure
16. Marcelo Ventura Freire And Fernando A. B. Colugnati. Fbst For 2X2X2 Contingency Table
17. Michel Chapron. Fuzzy Clustering Of Color Images By Entropy And Swarm Optimization
18. Michel Chapron. Recognition Of Maize And Weeds By Maximum Entropy Principle



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19. Michelle Pappalardo. Fuzzy Fast Fusion Of Information
20. Nestor Barraza. The Empirical Bayes Estimator And Mixed Distributions
21. Paulo C. Marques F., Sergio Wechsler And Carlos Pereira. Birnbaum'S Theorem Redux
22. Piyush Tagade And K Sudhakar. Analytical Solution For Bayesian Calibration Of Computer Simulator
23. Rafael S. Calsaverini And Renato Vicente. Non-Linear Dependences In Financial Time Series: Clustering With Mutual Information
24. Rafael Stern And Fernando Bonassi. De Finetti'S Representation Theorem
25. Rossella Bernardini Papalia. Analyzing Trade Dynamics From Incomplete Data In Spatial Regional Models: A Maximum Entropy-Based Approach
26. Silvio Rodrigues De Faria Junior And Julio Stern. Stopping And Selection Criteria For Edgeworth Expansion
27. Teresa Dias And Carlos Diniz. The Use Of Several Link Functions On A Beta Regression Model: A Bayesian Approach
28. Vera Tomazella, Camila Bertini Martins And José Miguel Bernardo. . Inference On The Univariate Frailty Model: An Approach Bayesian Reference Analysis
29. Alberto Solana Ortega and Vicente Solana. On the formal expression of observational data in scientific inference: Ambiguities and confusions
30. Leonardo Varuzza and Carlos Pereira. Comparative Gene Expression
31. John Skilling. Nested Sampling and Annealing
32. John Skilling. Inclusive Inference
33. Rita Zorzenon dos Santos and Priscila C. A. Silva. Clustering Time Series of Daily Parasite Counts of Malaria Patients Submitted to Different Treatments
34. Carlos Diniz and Camila Rodrigues. The Lag Length of a Dynamic Regression Model: A Comparative Study