SCHEDULE

1st Conference on Statistics and Data Science, November 12-14, 2018, Salvador, Brazil

<table>
<tr><td>Time</td><td colspan="2">Monday, 12/11/2018</td><td>Tuesday, 13/11/2018</td><td colspan="2">Wednesday, 14/11/2018</td></tr>
<tr><td>08:00–08:30</td><td rowspan="4">SC1: {IME}</td><td rowspan="4">SC2: {PAF I}</td><td rowspan="4">SC3: {IME}</td><td colspan="2" rowspan="4">SC3: {IME}</td></tr>
<tr><td>08:30–09:00</td></tr>
<tr><td>09:00–09:30</td></tr>
<tr><td>09:30–10:00</td></tr>
<tr><td>10:00–10:30</td><td colspan="2">Coffee Break</td><td>Coffee Break</td><td colspan="2">Coffee Break</td></tr>
<tr><td>10:30–11:00</td><td rowspan="4">SC1: {IME}</td><td rowspan="4">SC2: {PAF I}</td><td>KS2: Hedibert Lopes {IME}</td><td colspan="2">RT3: {IME}</td></tr>
<tr><td>11:00–11:30</td><td rowspan="3">RT2: {IME}</td><td colspan="2" rowspan="3">KS3: Dani Gamerman {IME}</td></tr>
<tr><td>11:30–12:00</td></tr>
<tr><td>12:00–12:30</td></tr>
<tr><td>12:30–13:00</td><td colspan="2" rowspan="3">Lunch</td><td rowspan="3">Lunch</td><td colspan="2">Closing Ceremony</td></tr>
<tr><td>13:00–13:30</td><td colspan="2">Lunch</td></tr>
<tr><td>13:30–14:00</td></tr>
<tr><td>14:00–14:30</td><td colspan="2">Opening Ceremony</td><td rowspan="3">IPS2: {IME}
IPS3: {PAF I}</td><td rowspan="3">Short Course 4 {IME}</td><td rowspan="3">Short Course 5 {FACOM}</td></tr>
<tr><td>14:30–15:00</td><td colspan="2">KS1: Katherine Ensor {IME}</td></tr>
<tr><td>15:50–15:30</td></tr>
<tr><td>15:30–16:00</td><td colspan="2">Coffee Break</td><td>Coffee Break</td></tr>
<tr><td>16:00–16:30</td><td colspan="2" rowspan="3">IPS1: {IME}
CPS1: {PAF I}</td><td rowspan="3">IPS4: {IME}
CPS4: {PAF I}</td><td colspan="2">Coffee Break</td></tr>
<tr><td>16:30–17:00</td><td rowspan="3">Short Course 4 {IME}</td><td rowspan="3">Short Course 5 {FACOM}</td></tr>
<tr><td>17:00–17:30</td></tr>
<tr><td>17:30–18:00</td><td colspan="2" rowspan="2">CPS2: {IME}
CPS3: {PAF I}</td><td rowspan="3">Poster Session</td></tr>
<tr><td>18:00–18:30</td></tr>
<tr><td>18:30–19:00</td><td colspan="2" rowspan="2">RT1: {IME}</td><td colspan="2" rowspan="3"></td></tr>
<tr><td>19:00–19:30</td><td></td></tr>
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<tr><td>19:45–</td><td colspan="2">Conference Dinner</td><td></td><td colspan="2"></td></tr>
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KS: Keynote Speakers

1. **Katherine D. Ensor** (Rice University, USA; Vice-President of the American Statistical Association): The Data Science Expert in the Room
2. **Hedibert Lopes** (Insper, Brazil): Efficient sampling for Gaussian linear regression with arbitrary priors
3. **Dani Gamerman** (Federal University of Rio de Janeiro, Brazil): Being an applied statistican (Como ser um estatístico aplicado)

SC: Short Courses

1. **Julio Trecenti** (Sócio da curso-R e Presidente do CONRE-3): Deep learning com o R
2. **Jorge Guerra Pires** (Federal University of Bahia, Brazil): Data Science and Biomathematics: an introduction to mathematical modeling applied to biological systems with Matlab
3. **Crysttian Arantes Paixão** (Federal University of Santa Catarina, Brazil): Regular expressions for database manipulation
4. **Orlando Fonseca Guilarte** (PUC-Rio): Data Science e Big Data com R
5. **Anderson Ara** (Federal University of Bahia, Brazil): Introduction to Bayesian Classifiers

IPS: Invited Paper Sessions

1. Data science for smart cities (Gérson Rodrigues dos Santos)
    a. Francisco de Deus Fonseca Neto (IFES): Assessment of positional quality in spatial data generated by VANT using point and linear feature for cadastre applications; AND
    Assessment of positional quality of orthophotos generated by VANT with different flight heights for cadastral applications
    b. Gérson Rodrigues dos Santos (UFV): UN Agenda 2030: case study on the use of Drones, Geoprocessing, Geostatistics, MoT, and Data Science in Public Management
    c. Acássio Vieira Coutinho (Carlos Chagas Mayor): UN Agenda 2030: results of the case study on the use of Drones, Geoprocessing, Geostatistics, MoT, and Data Science in Public Management

2. Ciência de dados e humanidades (Samuel Barros and Wilson Gomes)
    a. Isabele Mitozo: Os empregos da Estatística pela Ciência Política brasileira
    b. Júnia Ortiz: Os empregos da Ciência de Dados pela Comunicação em Ambientes Digitais
    c. Lucas Reis: O estudo da opinião pública mediante análise de redes do Twitter: o caso do impeachment de Dilma Rousseff

3. Deep learning for image segmentation (Luciano Rebouças de Oliveira)
    a. Luciano Rebouças de Oliveira (UFBA): Deep learning for semantic segmentation
    b. Paulo Roberto Silva Chagas Jr. (UFBA): Medical image segmentation
    c. Maurício Pamplona Segundo (UFBA): Generative adversarial Networks in image segmentation

4. Statistics, data science and applications (Francisco Louzada)
    a. Anderson Ara (UFBA): A Bayesian Network with a Bivariate Alpha-Skew-Normal Distribution: A machine Learning Approach
    b. Diego Nascimento (ICMC-USP): Solving high-dimensional constraints on multivariate time series
    c. Lília Costa (UFBA): The Estimation of Multiple Networks using The Group-structure Approach

RT: Round Tables

1. The role of statistics in the Era of big data
    a. Hedibert Lopes (Insper, SP, Brazil)
    b. Julio Trecenti (President of CONRE-3)
    c. Katherine D. Ensor (Rice University, USA; Vice-President of the American Statistical Association)

2. Data science and mathematical modeling applied to biological systems: How mathematical models can be advantageous for data scientists and statisticians
    a. Jorge Guerra Pires (Federal University of Bahia, BA, Brazil)
    b. Alexey Kolodkin (University of Luxembourg, Luxembourg, and VU University Amsterdam, The Netherlands)
    c. Matteo Barberis (University of Amsterdam, the Netherlands)

3. Data science and big data in Brazil
    a. Crysttian Arantes Paixão (Federal University of Santa Catarina, SC, Brazil)
    b. Dani Gamerman (Federal University of Rio de Janeiro, RJ, Brazil)
    c. Gérson Rodrigues dos Santos (Federal University of Viçosa, MG, Brazil)
    d. Jalmar Carrasco (Federal University of Bahia, BA, Brazil)

CPS: Contributed Paper Sessions

CPS1: Recent advances in time series analysis

- Carlos Pinheiro and Valter de Senna. Detecção automática de epilepsia através da análise espectral singular multivariada
- Hellen Pereira Lima, Natanael Nunes de Moura Junior and Luiz Pereira Calôba. Consumption Profile Estimate Using Non-Linear Models Applied to Financial Time Series
- Marco Costa and Magda Monteiro. A Periodic Mixed Linear State Space Model to Monthly Long-term Temperature Data
- Magda Sofia Monteiro and Marco Costa. A time series models comparison for monitoring and forecasting water quality variables

CPS2: Data Science applications to the society

- Pedro Macedo and João Pedro Cruz. Entropy in high-dimensional variable selection
- Jorge Guerra Pires. Stochastic models in medicine and life sciences: a short-term dynamics for ghrelin
- Lucas da Cunha Godoy, Luis Gustavo Silva E Silva and Douglas Roberto Mesquita Azevedo. Voronoi Data Linkage: Extracting data from polygons to points

CPS3: Computational aspects of distribution theory

- Marisol López and José Del Carmen Jiménez. An analysis of the pareto IV distribution and its applications
- Maria Lima and Fábio Pratavieira. A new lifetime distribution to describe medical data sets
- Alice Buarque Vieira de Mello and Maria Lima. The Nadarajah-Haghihi Nadarajah-Haghihi distribution: properties and applications

CPS4: Recent advances in data science

- Jonathan Acosta and Ronny Vallejos. On the Geometry of the Codispersion Coefficient
- Alba Martinez-Ruiz. Variance-based Approaches to Multiblock Data Analysis. Computational Experiments for Mode C
- Mateus Maia Marques and Anderson Ara. Kernel K Nearest Neighbors: an approach to text classification
- Kátia Cassiano and Douglas Cordeiro. Vetorial semantic representation for identification of knowledge networks: NLP applied to the Lattes curriculums of brazilian researchers
- Diego Da Silva Souza and José Raimundo Gomes Pereira. An adaptation of Bayesian Predictive Kernel Density Estimation for Cluster Analysis using Kernel K-Means Algorithm

Contributed Posters

- André Luiz Carvalho Ottoni, Erivelton Geraldo Nepomuceno, Marcos Santos de Oliveira and Daniela Carine Ramires de Oliveira. Reinforcement Learning Analysis for the Sequential Ordering Problem using the Scott-Knott test
- Andrés Javier Beltrán Hernández, Sebastián Fernández Vertel and Melba Liliana Vertel Morinson. Regional situation of secondary education in Colombia (2015-2016): gender, school and school achievement
- Caio Oliveira and Anderson Ara. Maquina de suporte de vetores (svm): um estudo de comparaçao entre alguns kernels
- Davi Butturi-Gomes and Everton Batista Da Rocha. Performance of selection and diagnostics measures using INLA: a simulation study for count regression
- Davi Vieira Barbosa, Fernando Humberto de Almeida Moraes Neto, Mateus Maia Marques, Anderson Ara and Ricardo Ferreira da Rocha. Cross-over of Bootstrap: Reduced Optimism method and other validation methods
- Diego Nascimento, Osvaldo Anacleto, Taiza Santos and Francisco Louzada Neto. Modeling high-dimensional time series from large scale brain networks
- Fernando Moraes and Ricardo Rocha. Prediction of cadastral fraud of smokers in health plans
- Gabriela Borges and Ricardo Rocha. Convolutional neural networks: a mammography classifier for breast cancer diagnosis
- Isabela Sant'Anna, Gabi Silva, Vinicius Carneiro, Moyses Nascimento and Cosme Cruz. Genomic Prediction of Quantitative traits by Artificial Neural Networks after using dimensionality reduction methodology
- Juliana Scudilio and Eulina Santos. Credit Scoring models of customers of a financial institution in São Paulo
- Katerine Edith Tobio Gutierrez, Melba Vertel Morinson and Wilson Yonezawa. Determinantes do desempenho acadêmico dos estudantes de escolas rurais em Montes de Maria (Colômbia)
- Krysthian Lessa and Ricardo Rocha. Construction of an intelligent security system based on facial recognition
- Maria Lima and Alice Mello. The Nadarajah-Haghihi Rayleigh distribution: properties and applications
- Mateus Maia Marques, Anderson Ara and Francisco Louzada Neto. Recommendation system to Academic Congresses: a text mining application
- Natanael Vitor Sobral, Valdinei Silva de Souza, Camila Braz Soares and Giselly Alves Reis. Estratégias Metodológicas para a Geração de Indicadores Científicos em Instituições de Pesquisa
- Susana Lima, Marco Costa and A. Manuela Gonçalves. An evaluation of time series models and combination methods in forecast accuracy: a case study
- Raíra Marotta, Felipi Bruno Da Silva, Ingrid C. L. de Oliveira and Pedro Ferreira. Measuring Brazilian Economic Uncertainty
- Yenifer Tovio Gutierrez, Maria Mendez Ramos and Melba Vertel Morrinson Vertel Morrinson. Multidimensional analysis of associated factors in levels of performance in mathematics: sixth grade test TERCE-Colombia-emphasis rural schools
- Yuraima Yuliza Hernandez Meza, Edgardo Enrique Hernandez Meza and Melba Liliana Vertel Morinsón. Determinants of investment for agro-export businesses in the department of Sucre