

**Luis Gustavo Nonato**  
**Complete List of Publications**  
**November 2017**

## Journal Papers

1. [doi>](#) SAGRISTA, A.; JORDAN, S.; JUST, A.; DIAS, F.; **NONATO, L. G.**; SADLO, F.  
Topological Analysis of Inertial Dynamics. *IEEE Trans. Vis. Comp. Graph.* 23:950 - 959, 2017.
2. [doi>](#) DAL COL, A.; VALDIVIA, P.; PETRONETTO, F.; DIAS, F.; SILVA, C.T.; **NONATO, L.G.**  
Wavelet-Based Visual Analysis for Data Exploration. *COMP. SCIE. & ENG.* 19:85 - 91, 2017.
3. [doi>](#) DAL COL, A.; VALDIVIA, P.; PETRONETTO, F.; DIAS, F.; SILVA, C.T.; **NONATO, L.G.**  
Wavelet-based Visual Analysis of Dynamic Networks. *IEEE Trans. Vis. Comp. Graph.* (PrePrint), 2017.
4. [doi>](#) SANDIM, M.; CEDRIM, D.; **NONATO, L.G.**; PAGLIOSA, P.; PAIVA, A.  
Boundary Detection in Particle-based Fluids. *Computer Graphics Forum.* 35:215 - 224, 2016.
5. [doi>](#) GOMEZ, E.; CASACA, W.; COIMBRA, D.; HARTMANN, IVAR; TAUBIN, G.; **NONATO, L.G.**  
Dealing with Multiple Requirements in Geometric Arrangements. *IEEE Trans. Vis. Comp. Graph.* 22:1223 - 1235, 2016.
6. [doi>](#) CEDRIM, D.; VAD, V.; PAIVA, A.; GRÖLLER, M.E.; **NONATO, L.G.**; CASTELO, A.  
Depth functions as a quality measure and for steering multidimensional projections. *Computers & Graphics.* 60:93 - 106, 2016.
7. [doi>](#) GARCIA ZANABRIA, G.; **NONATO, L.G.**; GOMEZ-NIETO, E.  
iStar (i\*): An interactive star coordinates approach for high-dimensional data exploration. *Computers & Graphics.* 60:107 - 118, 2016.
8. [doi>](#) CANTEREIRA, G.; **NONATO, L.G.**; PAULOVICH, F. V.  
MoshViz: A Detail+Overview Approach to Visualize Music Elements. *IEEE Trans. on Multimedia.* 18:2238 - 2246, 2016.
9. [doi>](#) FERREIRA, M.; CORRÊA, D.; GRIVET, M.; DOS SANTOS, G.T.; MELLO, R.; **NONATO, L.G.**  
On Accuracy and Time Processing Evaluation of Cover Song Identification Systems. *Journal of New Music Research.* 45:333 - 342, 2017.
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Visualizing and Interacting with Kernelized Data. *IEEE Trans. Vis. Comp. Graph.* 22:1314 - 1325, 2016.
11. [doi>](#) AMORIM, E.; BRAZIL, E.; MENA-CHALCO, J.; VELHO, L.; **NONATO, L.G.**; SAMAVATI, F.; SOUSA, M.C.  
Facing the High-dimensions: Inverse Projection with Radial Basis Functions. *Computers & Graphics.* 48:35 - 47, 2015.
12. [doi>](#) PAGLIOSA, P.; PAULOVICH, F.V.; MINGHIM, R.; LEVKOWITZ, H.; **NONATO, L.G.**  
Projection inspector: Assessment and synthesis of multidimensional projections. *Neurocomputing.* 150:599 - 610, 2015.
13. [doi>](#) JOIA, P.; PETRONETTO, F.; **NONATO, L.G.**  
Uncovering Representative Groups in Multidimensional Projections. *Computer Graphics Forum.* 34:281 - 290, 2015.
14. [doi>](#) SILVA, L.F.; SCHEIDEGGER, L.F.; ETIENE, T.; COMBA, J.; **NONATO, L.G.** SILVA, C.T.  
A Weighted Delaunay Triangulation Framework for Merging Triangulations in a Connectivity Oblivious Fashion. *Computer Graphics Forum.* 33:18 - 30, 2014.
15. [doi>](#) CASACA, W.; BOAVENTURA, M.; DE ALMEIDA, M.P.; **NONATO, L.G.**  
Combining anisotropic diffusion, transport equation and texture synthesis for inpainting textured images. *Patt. Recog. Lett.* 15:36 - 45, 2014.
16. [doi>](#) GOMEZ-NIETO, E.; SAN ROMAN, FRIZZI; PAGLIOSA, P.; CASACA, W.; HELOU, E.S.; DE OLIVEIRA, M.C.F.; **NONATO, L.G.**  
Similarity Preserving Snippet-Based Visualization of Web Search Results. *IEEE Trans. Vis. Comp. Graph.* 20:457 - 470, 2014.
17. [doi>](#) ETIENE, T.; JONSSON, D.; ROPINSKI, T.; SCHEIDEGGER, C.; COMBA, J.; **NONATO, L.G.**; KIRBY, R.M.; YNNERMAN, A.; SILVA, C.T.  
Verifying Volume Rendering Using Discretization Error Analysis. *IEEE Trans. Vis. Comp. Graph.* 20:140 - 154, 2014.
18. [doi>](#) BERGER, M.; LEVINE, J. A.; **NONATO, L.G.**; TAUBIN, G.L.; SILVA, C.T.  
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Spectral Image Segmentation Using Image Decomposition and Inner Product-Based Metric. *J. Math. Imag. Vis.* 45:227 - 238, 2013.
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24. [doi>](#) TIERNY, J.; DANIELS, J.; **NONATO, L. G.**; PASCUCCI, V.; SILVA, C.T.  
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31. [doi>](#) LIZIÉR, M.A. S.; SIQUEIRA, M.; DANIELS, J.; SILVA, C.T.; **NONATO, L.G.**  
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## Conference Papers

1. NAKANISHI, RAFAEL UMINO; ONO, JORGE PIAZENTIN; PAGLIOSA, PAULO; **Nonato, L.G.**; Paiva, Afonso Partial Similarity of 3D Shapes Using Cross Recurrence Plot. **SIBGRAPI Conference on Graphics, Patterns and Images**, p.448 – 456, 2016.
2. PAGLIOSA, LUCAS; PAGLIOSA, PAULO; **Nonato, L.G.** Understanding Attribute Variability in Multidimensional Projections **SIBGRAPI Conference on Graphics, Patterns and Images**, p.297 – 304, 2016.
3. Casaca, Wallace; MOTTA, DANILO; TAUBIN, GABRIEL; **Nonato, L.G.** A User-Friendly Interactive Image Inpainting Framework using Laplacian Coordinates, **Proceedings of IEEE ICIP**, p.862 – 866, 2015.
4. ONO, J. H. P.; SIKANSI, F.; CORREA, D. C.; PAULOVICH, F.; PAIVA, A.; **NONATO, L.G.** Concentric Radviz: Visual Exploration of Multi-Task Classification. **SIBGRAPI Conference on Graphics, Patterns and Images**, p.1 – 8, 2015.
5. MOTTA, DANILO; OLIVEIRA, M. L.; PAGLIOSA, PAULO; **Nonato, L.G.**; Paiva, Afonso Exploratory segmentation of vector fields using multidimensional projection **SIBGRAPI Conference on Graphics, Patterns and Images**, p.1 - 8, 2015.
6. CASACA, W.; COLNAGO, M.; **NONATO, L.G.** Interactive Image Colorization Using Laplacian Coordinates, **Computer Analysis of Images and Patterns, Lecture Notes in Computer Science**. v.9257. p.675 – 686, 2015.
7. ETIENE, TIAGO; PAGLIOSA, PAULO; **NONATO, L.G.** Linea: Building Timelines from Unstructured Text, **SIBGRAPI Conference on Graphics, Patterns and Images**, p.1 - 8, 2015.
8. VALDIVIA, P.; DIAS, F.; PETRONETTO, F.; Silva, Claudio T.; **NONATO, L.G.** Wavelet-based Visualization of Time-Varying Data on Graphs, **IEEE Proceedings of VAST**, p.1 – 9, 2015.
9. Casaca, W.; **NONATO, L.G.**; TAUBIN, G.. Laplacian Coordinates for Seeded Image Segmentation, **IEEE CVPR**, p.384 - 39, 2014.
10. AMORIM, E.; BRAZIL, E.; **NONATO, L.G.**; SAMAVATI, F.; SOUSA, M. Multidimensional Projection with Radial Basis Function and Control Points Selection, **IEEE Pacific Visualization Symposium**, p.209 - 216, 2014.
11. GOMEZ NIETO, E.; MOTTA, D.; **NONATO, L.G.** Semantically Aware Dynamic Layouts, **SIBGRAPI Conference on Graphics, Patterns and Images**. p.220 - 226, 2014.
12. SORIANO, AUREA; PAULOVICH, FERNANDO; **NONATO, L.G.**; OLIVEIRA, MARIA CRISTINA F. Visualization of Music Collections Based on Structural Content Similarity, **SIBGRAPI Conference on Graphics, Patterns and Images**. p.25 - 32, 2014.
13. PAGLIOSA, P.; MARTINS, R.; CEDRIM, D.; PAIVA, A.; MINGHIM, R.; **NONATO, L. G.** MIST: Multiscale Information and Summaries of Texts. **SIBGRAPI Conference on Graphics, Patterns and Images**, p.1 – 8, 2013.
14. Gomez-Nieto, Erick; Casaca, Wallace; **NONATO, L.G.**; TAUBIN, GABRIEL Mixed Integer Optimization for Layout Arrangement, **SIBGRAPI Conference on Graphics, Patterns and Images**, p.115 – 122, 2013.
15. VALDIVIA, P.; CEDRIM, D.; PETRONETTO, F.; PAIVA, A.; **NONATO, L. G.** Normal Correction Towards Smoothing Point-based Surfaces, **SIBGRAPI Conference on Graphics, Patterns and Images**, p.1 – 8, 2013.
16. ESCALANTE, D. C.; TAUBIN, G.; **NONATO, L. G.**; GOLDENSTEIN, S. Using Unsupervised Learning for Graph Construction in Semi-Supervised Learning with Graphs, **SIBGRAPI Conference on Graphics, Patterns and Images**, p.1 – 8, 2013.
17. CASACA, W.; GOMEZ, E.; FERREIRA, C.; TAVARES, G.; PAGLIOSA, P.; Paulovich, Fernando V.; **NONATO, L. G.**; PAIVA, A. Colorization by multidimensional projection, **SIBGRAPI Conference on Graphics, Patterns and Images**, p.32 – 38, 2012.
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21. CUADROS-VARGAS, A. J.; **NONATO, L. G.**; PASCUCCI, V.  
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22. Bhatia, Harsh; Jadhav, Shreeraj; Bremer, Peer-Timo; Chen, Guoning; Levine, Joshua A.; **Nonato, L.G.**; Pascucci, Valerio  
Edge maps: Representing flow with bounded error, **IEEE Pacific Visualization Symposium**, p.75 – 82, 2011.
23. JOIA, P.; GOMEZ, E.; BOTELHO, G.; BATISTA, J.; PAIVA, A.; **NONATO, L. G.**  
Projection-based Image Retrieval using Class-Specific Metrics,  
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24. CASACA, W.; PAIVA, A.; **NONATO, L. G.**  
Spectral Segmentation using Cartoon-Texture Decomposition and Inner Product-based Metric,  
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25. BISSI, F.; DIETRICH, C.; COMBA, J. D.; **NONATO, L. G.**  
Mesh Processing using On-the-Fly Connectivity Reconstruction given by Regular Triangulations,  
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26. LIZIER, M. A. S.; SIQUEIRA, M.; DANIELS, J.; SILVA, C.T.; **NONATO, L. G.**  
Template-based Remeshing for Image Decomposition, **SIBGRAPI Conference on Graphics, Patterns and Images**, p.1 – 8, 2010.
27. BONILLA, D.; VELHO, L.; NACHBIN, A.; **NONATO, L. G.** Fluid Warping, **Proceedings SIACG**, p.1 – 6, 2009.
28. CUNHA, I. L. L.; LACASSA, A.; POLIZELLI-JUNIOR, V.; GOIS, J. P.; OLIVEIRA, M. C. F.; **NONATO, L. G.**; CASTELO, A.  
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Robust and Adaptive Surface Reconstruction using Partition of Unity Implicits,  
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33. FERRAZ, C. T.; **NONATO, L.G.**; CUMINATO, J. A.  
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35. CUADROS-VARGAS, A. J.; **NONATO, L.G.**; TEJADA-GAMERO, E.; ERTL, T.  
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**Proceedings of Complimage**, p.1 – 6, 2006.
36. TEJADA-GAMERO, E.; GOIS, J. P.; **NONATO, L.G.**; CASTELO, A.; ERTL, T.  
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Improving 2D mesh image segmentation with Markov Random Fields,  
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A New Meshfree Approach for Fluid Flow Simulation with Free Surface, **Mecom**, p.1 – 13, 2005.
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