

Personal

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Education

- 2009–current **PhD(c)**, *Department of Computer Science - University of Chile*, Santiago-Chile.
PhD candidate (expected graduation date: November, 2013)
- 2000–2005 **B.Sc.**, *National University of Trujillo*, Trujillo-Perú.
B.Sc. in Computer Science

Grants / Awards

- NIC Chile doctoral scholarship (2009)
- Conicyt Chile doctoral scholarship (2010-2013)
- Google Travel Award in ACM Multimedia Conference (2011)
- Best Doctoral Symposium Paper Award - ACM Multimedia (2011)
- Research Stay Support received from the Posgraduate Department - University of Chile.
- Outstanding graduating student 2012. Department of Computer Science, University of Chile.
- Outstanding graduating student 2013. Department of Computer Science, University of Chile.

Research Stays

- Research stay at the Visual Analytics Group, University of Konstanz, March 24th - May 6th 2012. Konstanz, Germany. Contact: Prof. Dr. Tobias Schreck.

Research Interests

- Three-dimensional Similarity Search
- Geometry Processing and Analysis
- Computer Vision

Publications

Book Chapters

- Bustos, Benjamin, and Sipiran, Ivan: 3D shape matching for retrieval and recognition. In: 3D Imaging, Analysis, and Applications. Springer. 2012.

Journals ISI

- Ivan Sipiran and Benjamin Bustos: Key-components: Detection of salient regions on 3D meshes. To appear in The Visual Computer Journal. Springer.
- Ivan Sipiran, Benjamin Bustos, Tobias Schreck: Data-aware 3D Partitioning for Generic Shape Retrieval. Computer & Graphics 37(5):460-472. Elsevier. 2013.
- Lian, Z., Godil, A., Bustos, B., Daoudi, M., Hermans, J., Kawamura, S., Kurita, Y., Lavoué, G., Van Nguyen, H., Ohbuchi, R., Ohkita, Y., Ohishi, Y., Porikli, F., Reuter, M., Sipiran, I., Smeets, D., Suetens, P., Tabia, H., Vandermeulen, D.: A comparison of methods for non-rigid 3D shape retrieval. To appear in Pattern Recognition.
- Sipiran, Ivan, and Bustos, Benjamin: Harris 3D: A robust extension of the Harris operator for interest points detection on 3D meshes. The Visual Computer Journal. 27(11): 963-976. 2011

Conference Proceedings

- Sipiran, Ivan, and Bustos, Benjamin: A fully hierarchical approach for finding correspondences in non-rigid shapes. To appear in Proc. 14th IEEE International Conference on Computer Vision (ICCV'2013). IEEE Computer Society. 2013.
- Sipiran, I., Meruane, R., Bustos, B., Schreck, T., Li, B., Lu, Y., Johan, H.: SHREC'13 Track: Large-Scale Partial Shape Retrieval Using Simulated Range Images. Proc. Eurographics Workshop on 3D Object Retrieval (3DOR'13), pages 81-88. Eurographics Association. 2013.
- Sipiran, Ivan, and Bustos, Benjamin: Key-component detection on 3D meshes using local features. Proc. Eurographics Workshop on 3D Object Retrieval, 25-32, 2012.
- Biasotti B., Bai X., Bustos B., Cerri A., Giorgi D., Li L., Mortara M., Sipiran I., Zhang S., Spagnuolo M.: SHREC'12 Track: Stability on Abstract Shapes. Proc. Eurographics Workshop on 3D Object Retrieval, 101-107, 2012.
- Sipiran, Ivan: Local features for partial shape matching and retrieval. Proc. ACM Multimedia, 853-856, 2011.
- Lian, Z., Godil, A., Bustos, B., Daoudi, M., Hermans, J., Kawamura, S., Kurita, Y., Lavoue, G., Nguyen, H.V., Ohbuchi, R., Ohishi, Y., Porikli, F., Reuter, M., Sipiran, I., Smeets, D., Suetens, P., Tabia, H., and Vandermeulen, D.: SHREC'11 Track: Shape retrieval on Non-Rigid 3D Watertight Meshes, Proc. Workshop on 3D Object Retrieval (3DOR'11), 2011.
- Boyer, E., Bronstein, A., Bronstein, M., Bustos, B., Darom, T., Horaud, R., Hotz, I., Keller, Y., Keustermans, J., Kovnatsky, A., Litman, R., Reininghaus, J., Sipiran, I., Smeets, D., Suetens, P., Vandermeulen, D., Zaharescu, A., and Zobel, V.: SHREC 2011: robust feature detection and description benchmark, Proc. Workshop on 3D Object Retrieval (3DOR'11), 2011.
- Sipiran, Ivan, and Bustos, Benjamin: A robust 3D interest points detector based on Harris operator, Proc. Eurographics Workshop on 3D Object Retrieval, 7-14, 2010.

- Bronstein, A., Bronstein, M., Bustos, B., Castellani, U., Crisani, M., Falcidieno, B., Guibas, L., Kokkinos, I., Murino, V., Sipiran, I., Ovsjanikov, M., Patanè, G., Spagnuolo, M., and Sun, J.: SHREC 2010: Robust feature detection and description benchmark, Proc. Workshop on 3D Object Retrieval (3DOR'10), 2010.

Technical Reports

- Boyer, E., Bronstein, A., Bronstein, M., Bustos, B., Darom, T., Horaud, R., Hotz, I., Keller, Y., Keustermans, J., Kovnatsky, A., Litman, R., Reininghaus, J., Sipiran, I., Smeets, D., Suetens, P., Vandermeulen, D., Zaharescu, A., and Zobel, V.: SHREC 2011: robust feature detection and description benchmark, arXiv:1102.4258v1, February 2011.

Teaching Experience

- Adjunct Professor, Design and Analysis of Algorithms, Semester Fall 2013, Department of Computer Science, University of Chile.
- Adjunct Professor, Algorithms and Data Structures, Semester Spring 2012, Department of Computer Science, University of Chile.
- Adjunct Professor, Algorithms and Data Structures, Semester Spring 2011, Department of Computer Science, University of Chile.
- Adjunct Professor, Algorithms and Data Structures, Semester Fall 2011, Department of Computer Science, University of Chile.
- Adjunct Professor, Algorithms and Data Structures, Semester Fall 2010, Department of Computer Science, University of Chile.
- Adjunct Professor, Databases, Semester Fall 2010, Department of Computer Science, University of Chile.
- Full-Time Assistant Professor, Department of Computer Science, National University of Trujillo, Peru. (September 2006 - March 2009).
- Part-Time Assistant Professor, School of System Engineering, Private University of the North, Trujillo - Peru. (March 2008 - March 2009).
- Part-Time Assistant Professor, School of System Engineering, Cesar Vallejo University, Trujillo - Peru. (January 2007 - December 2007).