I. SIESC Contributions

- Model and evaluation tool using graphs as knowledge base for the automated correction of exams in text format, Paz Menvielle, M. A., Groppo, M., Marciszack, M., Guzman, A., Ligoria, K., Casatti, M.
- A Support Tool designed as Didactic Material for Teaching and Learning Programming, Blas, M. J., Hauque, F., Re, S., Castellaro, M.
- Adopt a Language: A Step Towards the Education of a Reflective Technology Practitioner, Albarracín, M., Ferrigno, L., Wachenchauzer, R.
- Programming Teaching Issues: Presence and Evolution throughout Specialized Literacy, Piccin, A.
- The Gobstones method for teaching computer programming, Martínez López, P., Ciolek, D., Arévalo, G., Pari, D.
- Differences between programming languages offered by the academy versus demanded by the companies in Costa Rica: Information Systems Engineering from the Universidad Nacional, Quesada, A., Castro, O.
- Studying novice learners knowledge about program execution, Aguirre Dorelo, A., da Rosa Zipitría, S.
- Skills and Strategies to Promote Learning Algorithms and Programming. Evolution from Learning Objectives, Carballo-Barrera, Y.
- Introduction To Programming Based On Playful Activities In The University, Dapozo, G., Greiner, C., Petris, R., Espíndola, M.
- Academic misconduct in projects: perspective of students and teachers of Introductory Computer Science Courses, Friss de Kerekü, I., Adorjan, A.
- Visual Accessibility and Programming: A First-Year Experience at Information Systems Engineering, Blas, M. J., Castellaro, M., Rodríguez, B.
- Procrastination at the conclusion of the masters thesis: results from a survey on computer science students in northeast Argentina, Irrazábal, E., Mascheroni, M. A., Greiner, C., Dapozo, G.
- Strategy to Evaluate the Performance of University Students according to their Profiles of Provenance, Papa, M. F., Becker, P., de Castro, M. V., Marcos Martini, E., Olsina, L.
- Features of the recent college graduate of the Faculty of Exact, Physical and Natural Sciences of the National University of San Juan, Herrera, M., Mallea, L., Torres, E., Millán, I., Lund, M.
- Introducing research practices in software projects for undergraduate students, Porras, A., Velasco, J.
- ATAM-RPG: A role-playing game to teach Architecture Trade-off Analysis Method (ATAM), Montenegro, C., Astudillo, H., Gomez Álvarez, M.

II. SLCGRVPI Contributions

- Algorithms for codification, multiperspective and refocusing of light fields: implementation and evaluation, Bizai, G.H., Peiretti, F., Salvatelli, A., Drozdowicz, B.
- Inverted tracking algorithm for the field survey through artificial vision and robotics, Serafino, S., Alvarez, E., Cicerchia, L.B., Balmer, A., Ramón, H., Russo, C.
- BIM Practices to Operation and Maintenances for Electrical Substations, do Santos Peres, I., Cardoso, A., Lamounier, E., Lima, G., Miranda, M., Moraes, I.
- Applications of Spring-Mass Model on Crystalline Lattices, del Carpio Minaya, R.A., Ponce Atencio, Y.
• Development of Educational Resources with Virtual and Augmented Reality: Challenges and Perspectives, Cardoso, A., Kirner, C., Frango, I., Tori R......213
• Gesture Interaction Metaphors within 3D Environments: Revisiting the Literature, Costa, D.P., Sampaio, P.N.M., Farinazzo Martins, V......219
• Augmented Reality using mobile technology with real time object rendering data based for vote counting. A case in Santa Fe elections 2017, Martínez, H.D......229
• Strategy to Optimize the Creation of Arrangements in Virtual Electric Power Substations, Barreto, C., Cardoso, A., Lamounier, E., Carvalho, A., Mattioli, L......239
• Python implementation of local intervoxel-texture operators in neuroimaging using Anaconda and Slicer 3D environments, Massiris, M.M., Dennehy, B.R., Delrieux, C.A., Thomsen, F.S.L......247
• A Robust Video Identification Framework using Perceptual Image Hashing, Vega, F., Medina, J., Mendoza, D., Saquicela, V., Espinoza, M......250
• Towards a Multi-Screen Interactive Ad Delivery Platform, Vega, F., Medina, J., Saquicela, V, Palacio-Baus, K. Espinoza, M......260

III. SLIHS CONTRIBUTIONS

• Performance Evaluation of Non-Hitless Spectrum Defragmentation Algorithms in Elastic Optical Networks, Fernández Martínez, S., Pinto-Roa, D......270
• Survivability Analysis on Non-Triconnected Optical Networks under Dual-Link Failures, Gonzalez-Montoro, N., Finocchietto, J. M......290
• Double Coupling Between Inertial Sensors and Visual Odometry in Multicopters, Paz, C. J., Nesmachnow, S......299
• Implementing an ISR defense on a MIPS architecture, Sanabria Sancho, L., Barrantes, E. G......309
• On Exploring Proactive Cloud Elasticity for Internet of Things Demands, Facco Rodrigues, V., Correa, E., André da Costa, C., da Rosa Righi, R......326
• An Approach for Environment Mapping and Control of Wall Follower Cellbot Through Monocular Vision and Fuzzy System, Farias, K., Junior, W., Bezerra Neto, R., Rabelo, R., Santana, A......336

IV. SLIOIA CONTRIBUTIONS

• Evolutionary local improvement on genetic algorithms for feature selection, Vignolo, L. D., Gerard, M. F......362
• Extreme Learning Machine prediction under high class imbalance in bioinformatics, Rodriguez, T., Di Persia, L. E., Milone, D. H., Stegmayer, G. S......370
• On the use of convolutive nonnegative matrix factorization with mixed penalization for blind speech dereverberation, Ibarrola, F. J., Di Persia, L. E., Spies, R. D......378
• Music Mood Classification Using Visual and Acoustic Features, Chagas Tavares, J. C., Maldonado e Gomes da Costa, Y......382
• Shape-based visual analysis of solutions for Multiobjective Optimization problems, Von Lucken, C. D., Fretes Prieto, A., Ferreira, A., Barán Cegla, B......392
• Drug Cocktail Selection for the Treatment of Chagas Disease: a Multi-objective Approach, Torres, M., Cáceres Silva, J. J., Jiménez, R., Yubero, V., Vega, C., Rolón, M., Ceruzzi, L., Barán, B., Paccanaro, A......401
• Solving large instances applying meta-heuristics for classical parallel machine scheduling problems under tardiness and earliness penalties, Amorim, R., Thomaz da Silva, M., de Freitas, R......406
• Choosability in coloring problems of graphs with restricted color lists, Gama, S., de Freitas, R., Salvatierra, M......416
• Consensus Community Detection for Multi-dimensional Networks, Tommasel, A., Godoy, D......426
Vector representation of Internet Domain Names using a Word Embedding technique, López, W., Merlino, J., Rodríguez-Bocca, P. 444
Intrusion Detection in Computer Networks Using Hybrid Machine Learning Techniques, Perez, D., Astor, M., Perez Abreu, D., Scalise, E. 452
Searching the Efficient Frontier for the Coherent Covering Location Problem, Azocar Simonet, F. I., Acosta Espejo, L. G. 471
Multi-Objective Maximum Diversity Problem, Vera Escobar, K. D., Lopez-Pires, F., Baran, B., Sandoya, F. 488
Intention Reconsideration like Dichotomous Choice: an Argumentation-based Approach, Sosa-Toranzo, C., Ferretti, E., Errecalde, M. 497
Stochastic generation and forecasting of monthly hydrometeorological data based on non-traditional neural network, Luque Mamani, E. F., Quispe Herrera, J. 507

V. SLIS CONTRIBUTIONS

To what extent are faculty ready to participate in the OER movement? The case of the Informatics School, UNA, Coto, M., Mora, S. 515
Contributing to the OER movement: A practical experience, Coto, M., Mora, S. 523
The Authorship in the Production of Open Educational Resources in the Multinational Context, Silveira, I. F., Omar, N., Knihs, E., Eliseo, M. A. 544
School and PCI: subjective dimension through students and teacher’s representations, Yansen, G. 550
Combining Software Agents and Gaming through Student Play, an Educational Module in Agent SocialMetric, Kuz, A., Falco, M., Giandini, R. S. 560
Raising students motivation for math learning using computer animation approach, Ibarra, M., Mamani, Y., Ataucusi, P., Palomino, C. 575
A Comprehensive Approach for E-Government Solutions, Cortés-Morales, R. 584

VI. SLISW CONTRIBUTIONS

Tuning the Analysis Activity of Quality Evaluation Strategies for different Purposes, Becker, P., Olsina, L. 604
Towards formal model-based analysis and testing of Androids security mechanisms, Betarte, G., Campo, J., Cristiá, M., Gorostiaga, F., Luna, C., Sanz, C. 614
Requirement Analysis with Soft System Methodology, Orellana Rodriguez, L., Martinez, C. A., Castellini, M. A. 624
Mining Bugzilla datasets with new Increasing Failure Rate Software Reliability models, Barraza, N. R. 634
A Visualization Tool to Detect Refactoring Opportunities in SOA Applications, Rodriguez, G., Teyseyre, A., Soria, A., Berdun, L. 649
Word Embeddings for improving REST services discoverability, Lizarrlade, I., Rodriguez, J. M., Mateos, C., Zunino, A. 659
Design of Software Effort Estimation Models An approach based on Linear Genetic Programming, Sanchez, R., Pinto-Roa, D. P. 667
A DSL for Collaborative Systems with Awareness, Bibbo, L. M., Giandini, R., Pons, C. 677
A Comparison of Smartphone Interfaces for Teleoperation of Robot Arms, Rodriguez, D., Perez, C., Jagersand, M., Figueroa, P. 696
Dependency Management in the Cloud: An Efficient Proposal for Java, Agero, M., Ballejos, L. 704
Practical Implications from a Preliminary Theory of Simplicity in Agile Software Development Based on a Qualitative Study, Barbosa Santos, W., Cunha, J. A. O. G., Moura, H., Margaria, T. 713
The state of agile development adoption in argentine software companies, Bollati, V., Gaona, G., Cuenca Pletsch, L.,
Gonnet, S., Leone, H........733
Boolean Expression Extender - A Mutation Operator for Strengthening and Weakening Boolean Expressions, Gutierrez Brida, S., Scilingo G........743

VII. SLMDI Contributions

MAS2DES-ONTO: Ontology for mas-based digital ecosystems, Kidanu, A., Chbeir, R., Cardinale, Y........753
A New Storm Topology for Synopsis Management in the Processing Architecture, Diván, M. J., Martín, M. A........761
Mining the Biomedical Literature to Predict Shared Drug Targets in DrugBank, Cniza, H., Galeano, D., Pacanaro, A........771
Data advanced management system based in workflows and structured languages analysis, Bravo, V., Solazver, S........776
An Analysis of Convolutional Neural Networks for Sentence Classification, Alburqueque Vieira, J. P. Moura, R. S........784
Approach to define Author Reputation in Web Product Reviews using Artificial Neural Networks, de Sá, C. A., Moura,
R. S........789
Improving the Overlapping Clustering of Web Resources for a Specific Domain, Romagnano, M., Marchetta, M. G........805
Web Browsing Optimization: a Prefetching System Based on Prediction History, Martínez-Sugastii, J., Stuardo, F., González,
V........815
Extraction of geographic entities from biological textual sources, Acuña-Chaves, M., Araya-Monge, J. E........825
Graph Modeling from Relational Databases, Lima Filho, S. P., Cavalcanti, M. C., Justel, C. M........833
Authors semantic disambiguation on heterogeneous bibliographic sources, Ortiz, J., Segarra, J., Sumba, X., Cullcay, J.,
Espinoza, M., Saquicela, V........843
Semantic Web and Augmented Reality for searching people, events and points of interest within of a University Campus,
Contreras, P., Chimbo, D., Tello, A., Espinoza, M........852
A Proposal for Mixture of Experts with Entropic Regularization, Peralta, B., Saavedra, A., Caro, L........862

VIII. SLPNASO Contributions

A Data Quality aware Enterprise Service Bus for e-Health Integration Platforms, Pidre, S., González, L., Mendoza, R.,
Piñatares, M., Granja, N., Serra, F., Ruggia, R........871
ReM-AM: Reflective Middleware for Acoustic Management in Intelligent Environments, Santiago, G., Aguilar, J., Chávez,
D........881
Quality Model for the Evaluation of Geospatial Web Services within the Spatial Data Infrastructure of Uruguay, de los
Reyes, M., González, L., Sosa, R........908
BPMN 2.0 based modeling and customization of variants in business process families, Delgado, A., Calegari, D........918