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Proactive researcher and lecturer with 19+ years of experience teaching courses on undergraduate and graduate levels. He has supervised 8 BA theses, 4 MA theses, and 2 Ph.D. dissertations. He has published over 90 articles/papers among conference papers, peer-reviewed journals, book chapters, and books related to Artificial Intelligence, Data Science, Data Streaming, Internet-of-Things, Measurement, and Evaluation. Also, hold over 19 years of experience working on different IT projects in different industries (Pharmaceutical, Government, Communication, Massive Consuming Goods, etc.).

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Education

- [2011; 2006] **Ph.D. in Computer Science**
Computer Science School, National University of La Plata
La Plata, Buenos Aires, Argentina
<https://www.info.unlp.edu.ar>
Thesis title: “An Integrated Approach for the Data Stream Processing based on Measurement Metadata” (In Spanish)
DOI: <https://doi.org/10.13140/RG.2.2.36591.89762>
Thesis supervisor: Dr. Luis Olsina Santos & Dra. Silvia Gordillo
- [2011; 2007] **Specialty in High-Performance and Grid Computing**
Computer Science School, National University of La Plata
La Plata, Buenos Aires, Argentina
<https://www.info.unlp.edu.ar>
Thesis title: “Gathering and Ordering of Concurrent and Simultaneous Data Streams” (In Spanish)
DOI: <https://doi.org/10.13140/RG.2.2.30510.15687>
Thesis supervisor: Dr. Marcelo Naiouf
- [2007; 2006] **Specialty in Data Mining and Knowledge Discovery**
School of Natural and Exact Sciences
Computer Science Department, University of Buenos Aires
Buenos Aires, Argentina
<http://dc.uba.ar>
- [2006; 2002] **MBA**
National Technological University
Córdoba, Argentina
<http://www.frc.utn.edu.ar>
Thesis title: "Creating a Distribution Cellular Center for gathering honey in the Doblas' Cooperative" (In Spanish)
DOI: <https://doi.org/10.13140/RG.2.2.27154.71360>
Thesis supervisor: Dr. Nelson Gustavo Specchia Checura
- [2004; 2002] **Specialty in Managerial Engineering**
National Technological University
Córdoba, Argentina
<http://www.frc.utn.edu.ar>
- [2002; 1997] **Information System Engineer**
National Technological University
Córdoba, Argentina
<http://www.frc.utn.edu.ar>
Minor: System Analyst

Professional Appointments

[2004; till now] **Full Professor of Information Technology at Economy School of the National University of La Pampa.** La Pampa, Argentina. www.eco.unlpam.edu.ar. Taught a total of 2 undergraduate and 2 graduate courses, mainly focused on databases, data management, and data visualization using QlikSense and Tableau. Supervised 5 BA theses, 4 MA theses, and 2 Ph.D. dissertations. Head of the Data Science Research Group integrating into interdisciplinary way researchers and students from the Engineering School and Economy School.

[Jul-2019; Dec-2019] **Visiting Professor of Data Science at National Technological University.** Córdoba, Argentina. www.frc.utn.edu.ar. Taught a graduate course focused on data sciences related to the doctoral and master programs in Information Systems. Collaboration with students pursuing their Ph.D. in research lines associated with advances database, data mining, and data sciences.

[Jul-2018; Dec-2019] **Chief Technology Officer (CTO).** LU 89 TV Channel 3. La Pampa, Argentina. <https://canal3.lapampa.gob.ar/>. Coordination of the whole technical operations of the TV Channel, from the signal generation up to the uplink to the satellite and its broadcast.

[Sep-2017; Nov-2017] **Visiting Professor of Data Science at National Technological University.** Tucumán, Argentina. www.frt.utn.edu.ar. Taught a graduate course focused on data science related to the master's program in Information Systems. Collaboration with students pursuing the Information System master, in research lines associated with advanced databases, data mining, and data sciences.

[Aug-2017; Sep-2017] **Visiting Professor of Business Intelligence and Data Mining at National Technological University.** Córdoba, Argentina. www.frc.utn.edu.ar. Taught a graduate course focused on business intelligence and data mining related to the doctoral and master programs in Information Systems. Collaboration with students pursuing their Ph.D. in research lines associated with advances database, data mining, and data sciences.

[Apr-2017; May-2017] **Visiting Professor of Organization Models and Information Systems at National Technological University.** Villa María, Argentina. www.frvn.utn.edu.ar. Taught a graduate course focused on organization models and information systems related to the Information System master.

[Mar-2016; Apr-2016] **Visiting Professor of Business Intelligence and Data Mining at National Technological University.** Entre Ríos, Argentina. www.frcu.utn.edu.ar. Taught a graduate course focused on business intelligence and data mining related to the computer science master. Collaboration with students pursuing the computer science master, in research lines associated with advanced databases, data mining, and data sciences.

[Jun-2016; Mar-2017] **Adjunct Professor of Computer Science Applied to the University Management at the National University of La Pampa.** La Pampa,

Argentina. www.unlpam.edu.ar. Taught a total of 1 undergraduate course focused on different technologies applied to the University Management. The course was completely implemented on Moodle jointly with the students' mentoring and supervising was performed.

[2016; till now] **Doctoral Committee Member of the Doctoral Program of Information Systems at National Technological University. Córdoba, Argentina.** www.frc.utn.edu.ar. Supervised the courses' contents related to the Ph.D. program, helped in the students monitoring and their advance status, reviewed students' applications to the program, reviewed different thesis plans previous to the elevation to the graduate secretary and collaborated in related activities with the program.

[Sep-2015; Oct-2015] **Visiting Professor of Business Intelligence and Data Mining at National Technological University. Villa María, Argentina.** www.frvn.utn.edu.ar. Taught a graduate course focused on business intelligence and data mining related to the computer science master. Collaboration with students pursuing the computer science master, in research lines associated with advanced databases, data mining, and data sciences

[May-2015; Jul-2015] **Visiting Professor of Business Intelligence and Data Mining at National Technological University. Córdoba, Argentina.** www.frc.utn.edu.ar. Taught a graduate course focused on business intelligence and data mining related to the doctoral and master programs in Information Systems. Collaboration with students pursuing their Ph.D. in research lines associated with advances database, data mining, and data sciences.

[Oct-2013; Nov-2013] **Visiting Professor of Business Intelligence and Data Mining at The National University of Asunción. Asunción, Paraguay.** www.una.py. Taught a graduate course focused on business intelligence and data mining related to the Information Technology and Communication Master.

[Sep-2013; Oct-2013] **Visiting Professor of Advanced Databases at National Technological University. Córdoba, Argentina.** www.frc.utn.edu.ar. Taught a graduate course focused on advanced databases related to the master's program in Information Systems. Collaboration with students pursuing the Information System master, in research lines associated with advanced databases, data mining, data streaming, and data sciences.

[Mar-2013; Dec-2013] **Adjunct Professor of Mathematics at Agricultural School of the National University of La Pampa. La Pampa, Argentina.** www.agro.unlpam.edu.ar. Taught a total of 2 undergraduate courses focused on the introduction to Algebra and Mathematical Analysis for students of the Administration Bachelor's oriented to Agricultural Business.

[Jul-2012; Sep-2012] **Visiting Professor of Advanced Databases at National Technological University. Córdoba, Argentina.** www.frc.utn.edu.ar. Taught a graduate course focused on advanced databases related to the master's program in Information Systems. Collaboration with students pursuing the Information System master, in research lines associated with advanced databases, data mining, data streaming, and data sciences.

[2012; till now] **Committee Member of the master's program of Information Systems at National Technological University. Córdoba, Argentina.** www.frc.utn.edu.ar. *Supervised the courses' contents related to the master's program for the Information System Mention, helped in the students' monitoring, reviewed students' applications to the program, reviewed different thesis plans previous to the elevation to the graduate secretary and collaborated in related activities with the program.*

[Sep-2011; Nov-2011] **Visiting Professor of Advanced Databases at National Technological University. Córdoba, Argentina.** www.frc.utn.edu.ar. *Taught a graduate course focused on advanced databases related to the master's program in Information Systems. Collaboration with students pursuing the Information System master, in research lines associated with advanced databases, data mining, data streaming, and data sciences.*

[Jul-2010; Sep-2010] **Visiting Professor of Advanced Databases at National Technological University. Córdoba, Argentina.** www.frc.utn.edu.ar. *Taught a graduate course focused on advanced databases related to the master's program in Information Systems. Collaboration with students pursuing the Information System master, in research lines associated with advanced databases, data mining, data streaming, and data sciences.*

[Jul-2009; Sep-2009] **Visiting Professor of Advanced Databases at National Technological University. Córdoba, Argentina.** www.frc.utn.edu.ar. *Taught a graduate course focused on advanced databases related to the master's program in Information Systems. Collaboration with students pursuing the Information System master, in research lines associated with advanced databases, data mining, data streaming, and data sciences.*

[Mar-2007; Dec-2017] **Adjunct Professor of Design and Analysis System at Engineering School of the National University of La Pampa. La Pampa, Argentina.** www.ing.unlpam.edu.ar. *Taught a total of 1 undergraduate and 2 graduate courses focused on System Analysis and Design and Data Science related to the Information System Engineering. Collaboration in research lines of the GIDIS_Web group associated with advanced databases, data streaming, data mining, measurement, and evaluation. Coordinator of the Technical Cooperation Agreement between the National Institute of Agricultural Technology and the Engineering School oriented to the data stream processing coming from a Gematronik Weather Radar.*

[2004; till now] **Chief Executive Officer (CEO) at Divsar.** Santa Rosa, La Pampa, Argentina. www.divsar.com.ar. *Main responsibilities: Business Management and Plan, Intelligent Systems Integration, Knowledge Transfer, & Integration of batch and real-time data processing.*

[2002;2004] **Assistant Professor of Data Management at National Technological University. Córdoba, Argentina.** www.frc.utn.edu.ar. *Taught a total of 1 undergraduate course focused on Data Management related to the Information System Engineering. Collaboration in research lines associated with data warehousing and data mining in the Microsoft Lab.*

Publications

Peer-Reviewed

Books

Johri, P, Diván, M, Khanam, R, Marciszack, M & Will, A (2022) “**Recent Trends and Advancements of Image Processing and Its Applications**”. 1st Edition. EAI/Springer Innovations in Communications and Computing Series. Springer. 317 pages. ISBN: 978-3030759445. <https://link.springer.com/book/9783030759445>. **In production.**

Bali, V, Bhatnagar, V, Aggarwal, D, Bali, S & Diván, M (2022) “**Cyber-Physical, IoT, and Autonomous Systems in Industry 4.0**”. CRC Taylor and Francis. <https://www.routledge.com/Cyber-Physical-IoT-and-Autonomous-Systems-in-Industry-40/Bali-Bhatnagar-Aggarwal-Bali-Divan/p/book/9780367705152>. **In production.**

Poonia, R.C., Singh, V., Singh Jat, D., Divan, M.J., Khan, M.S. -Eds.- (2021) “**Proceedings of Third International Conference on Sustainable Computing. SUSCOM 2021**”. 1st Edition. Vol. 1404 in Advances in Intelligent Systems and Computing Series, ISSN: 2194-5357. Springer Singapore. 530 pages. e-ISBN: 978-981-16-4538-9, p-ISBN: 978-981-16-4537-2. DOI: 10.1007/978-981-16-4538-9. <https://www.springer.com/gp/book/9789811645372>

Diván, M (2012) “**Information Technology Fundamentals for Economy**” (In Spanish). Publishing House of the National University of La Pampa. 353 pages. ISBN 978-950-863-863-1. DOI: <https://doi.org/10.6084/m9.figshare.9947204>

Diván, M (2007) “**Data Structures and Algorithms with C/C++**” (In Spanish: Algorithms and Data Structures with C/C++). Publishing House of the National University of La Pampa. 410 pages. ISBN 978-950-863-084-1. DOI: <https://doi.org/10.6084/m9.figshare.9947357>

Diván, M (2007) “**Introduction to the Information Technology for Economic Science Practitioners**” (In Spanish). Publishing House of the National University of La Pampa. 345 pages. ISBN 978-950-863-863-4. DOI: <https://doi.org/10.6084/m9.figshare.9947303>

Book Chapters

Diván, M & Sánchez-Reynoso, M (2021/2) “**A Blockchain-based distributed record of data collector nodes**”. Book Chapter in “Transformations through Blockchain Technology”, Nowostawski, M & Idress, S (Eds.). Springer. **Accepted. In press.**

Khanam, R, Johri, P & Diván, M (2021/2) “**Human Skin Color Detection Technique Using Different Color Models**”. Book Chapter in “Recent Trends and Advancements of Image Processing and Its Applications”, Johri, P, Diván, M, Khanam, R, Marciszack, M & Will, A (Eds.). Springer. **Accepted. In press.**

Diván, M & Sánchez-Reynoso, M (2021) “**Effect of the measurement on Big Data Analytics. An evolutive perspective with Business Intelligence**”. Book Chapter in “Big Data Analysis for Green Computing: Concepts and Applications”, Sharma, Sharma, Bhatt, Pham (Eds.). CRC Taylor and Francis. Chapter 4. Pp. 50-69. <http://dx.doi.org/10.1201/9781003032328-4>.

Diván, M & Sánchez Reynoso, M (2020) “**Modeling the meaning of data streams and its impact on the system performance**”. Book Chapter in “Systems Performance Modeling”, A. Anand & M. Ram (Eds.). Walter de Gruyter GmbH. DOI: <https://doi.org/10.1515/9783110619058-006>

Yuvaraj, N., Arshath Raja, R., Kousik, N.V., Johri, P., & Diván, M (2020) “**Analysis on The Prediction of Central Line-Associated Bloodstream Infections (Clabsi) Using Deep Neural Network Classification**”. Book Chapter in “Computational Intelligence and Its Applications in Healthcare”, P. Johri, J. Verma, and S. Paul (Eds.). Academic Press (Elsevier). <https://www.elsevier.com/books/computational-intelligence-and-its-applications-in-healthcare/johri/978-0-12-820604-1>. DOI: <https://doi.org/10.1016/C2019-0-01685-8>

Diván, M & Sánchez Reynoso, M (2020) “**The impact of Internet-of-Things and Data Semantics on the Decision Making for Outpatients' Monitoring**”. Book Chapter in “Computational Intelligence and Its Applications in Healthcare”, P. Johri, J. Verma, and S. Paul (Eds.). Academic Press (Elsevier). <https://www.elsevier.com/books/computational-intelligence-and-its-applications-in-healthcare/johri/978-0-12-820604-1>. DOI: <https://doi.org/10.1016/C2019-0-01685-8>

Diván, M & Sánchez Reynoso, M (2020) “**Managing the Data Meaning in the Data Stream Processing: A Systematic Literature Mapping**”. Book Chapter in “Applications of Machine Learning”, P. Johri, J. Verma, and S. Paul (Eds.). Springer Nature (Singapore). Book Series “Algorithms for Intelligent Systems (AIS)”. pp. 31-46. <https://www.springer.com/gp/book/9789811533563>. DOI: https://doi.org/10.1007/978-981-15-3357-0_3

Frittelli, V & Diván, M (2020) “**An Architecture for e-Health Recommender Systems based on Similarity of Patients' Symptoms**”. Book Chapter in “Blockchain Technology for Smart Cities”, D. Singh & N. Rajput (Eds.). Springer Nature. Pp. 155-180. DOI: https://doi.org/10.1007/978-981-15-2205-5_8

Diván, M & Sánchez Reynoso, M (2019) “**An Architecture for the Real-Time Data Stream Monitoring in IoT**”. Book Chapter in “Multimedia Big Data Computing for IoT Applications: Concepts, Paradigms, and Solutions”, S. Tanwar, S. Tyagi, and N. Kumar (Eds.). pp. 59-100. ISBN 978-981-13-8759-3, Springer. https://doi.org/10.1007/978-981-13-8759-3_3

Diván, M & Sánchez Reynoso, M (2018) “**The Real-Time Measurement and Evaluation as System Reliability Driver**”. Book Chapter in “System Reliability Management: Solutions and Technologies”. Anand, A & Ram, M (Eds.). CRC Press, Taylor & Francis Group. Pp. 161-188. <https://doi.org/10.1201/9781351117661-11>

Journal Articles

Kumar, R, Khatri, S & Diván, M (2021/2) “**Optimization of Power Consumption in Data Centers Using Machine Learning Based Approaches: A Review**”. International Journal of Electrical and Computer Engineering (IJECE). Institute of Advanced Engineering and Science (IAES). ISSN: 2088-8708. Accepted. *Accepted. In press.*

Diván, M & Frittelli, V (2021/2) “**A Systematic Mapping Study about Applications of Knowledge Graphs in Agribusiness**”. International Journal of Reasoning-based Intelligent Systems (IJRIS). Special Issue on Advanced Intelligent Technologies and their Industrial Applications. ISSN: 1755-0564. *Accepted. In press.*

Kumar, R, Khatri, S & Diván, M (2021/2) “**Power Usage Efficiency (PUE) Optimization with Counterpointing Machine Learning Techniques for Data Center Temperatures**”. International Journal of Mathematical, Engineering, and Management Sciences (IJMEMS). ISSN: 2455-7749. Accepted. *Accepted. In press.*

Diván, M, Sánchez-Reynoso, M, Wahab, MHA, & Idrus, SZS (2021) “**IoT-based Measurement Collection Distributed Architecture**”. Annals of Emerging Technologies in Computing (AETiC). Special Issue on Computing and Communication Engineering: Future Directions. International Association for Educators and Researchers (IAER). ISSN: 2516-0281. *Accepted. In press.*

Diván, M, Sánchez Reynoso, Panebianco, J & Méndez, M (2021) “**IoT-based Approaches for Monitoring the Particulate Matter and its Impact on Health**”. IEEE Internet of Things Journal. Vol. 8(15):11983-12003. ISSN: 2327-4662. <http://dx.doi.org/10.1109/JIOT.2021.3068898>

Diván, M & Sánchez Reynoso, M (2021) “**Metadata-based measurements transmission verified by a Merkle Tree**”. Knowledge-based Systems. Vol. 219 106871-1:106871:17. ISSN: 0950-7051. <https://doi.org/10.1016/j.knosys.2021.106871>

Diván, M & Sánchez Reynoso (2021) “**A Metadata and Z-score based Load-Shedding Technique in IoT-based Data Collection Systems**”. International Journal of Mathematical, Engineering, and Management Sciences (IJMEMS). Vol.6(1) 363-382. ISSN: 2455-7749. <https://doi.org/10.33889/IJMEMS.2021.6.1.023>

Diván, M & Sánchez Reynoso (2020) “**A Real-Time Entity Monitoring based on States and Scenarios**”. CLEI Electronic Journal, CLEI (Publisher). Vol.23(1) 2-1:2-25. ISSN: 0717-5000. <https://doi.org/10.19153/cleiej.23.1.2>

Diván, M & Sánchez Reynoso (2020) “**Optimizing Data Transmission from IoT devices through Weighted Online Data Changing Detectors**”. Advances in Data Science and Adaptive Analysis, World Scientific (Publisher). Vol 12(2) 2041001-1: 2041001-33. ISSN: 2424-922X. <https://doi.org/10.1142/S2424922X20410016>

Diván, M & Sánchez Reynoso, M (2020) “**Strategies based on IoT for supporting the decision making in Agriculture: A Systematic Literature Mapping**”.

International Journal of Reasoning-based Intelligent Systems, InderScience (Publisher). Vol 13(3) 155:171. ISSN: 1755-0556.
<https://www.inderscience.com/info/ingeneral/forthcoming.php?jcode=ijris>

Sánchez-Reynoso, M & Diván, M (2020) “**Assessment of semantic similarity in entities under monitoring: A systematic literature mapping**”. Revista Facultad de Ingeniería Universidad de Antioquía. ISSN 0120-6230.
<https://doi.org/10.17533/udea.redin.20200476>.

Diván, M, Sánchez Reynoso, M & Abd Wahab, M (2020) “**Dynamic Switching in the Measurements’ Collecting from Heterogeneous Data Sources**”. Journal of Physics: Conference Series. IOP Publishing. 1529 022058:1-8. ISSN 1742-6596.
<https://doi.org/10.1088/1742-6596/1529/2/022058>.

Kumar, R, Khatri, S. & Diván, M (2020) “**Efficiency Measurement of Data Centers: An Elucidative Review**”. Journal of Discrete Mathematical Sciences and Cryptography, Vol. 23(1):221-236. <https://doi.org/10.1080/09720529.2020.1721886>

Tanwar S., Goel P., Johri P. and Diván M. (2020) “**Classification of Benign and Malignant Colorectal Polyps using Pit Pattern Classification**”. SSRN Electronic Journal. Elsevier (Publisher). Pp. 1-6. ISSN 1556-5068.
<http://dx.doi.org/10.2139/ssrn.3558374>

Diván, M and Sánchez Reynoso (2019) “**Extending the Data Stream Processing Strategy to Scenario Analysis**”. International Journal of Advanced Trends in Computer Science and Engineering (IJATCSE). World Academy of Research in Science and Engineering (Publisher). 8(1.4):1-8. ISSN 2278-3091.
<https://doi.org/10.30534/ijatcse/2019/0181.42019>

Sánchez Reynoso, M & Diván, M (2019) “**Improving the Real-Time Searching in the Organizational Memory**”. Procedia Computer Science. Elsevier Ltd. Vol. 154, pp. 293-304. ISSN: 1877-0509. <https://doi.org/10.1016/j.procs.2019.06.043>

Diván, M & Sánchez Reynoso (2019) “**A Load-Shedding Technique based on the Measurement Project Definition**”. In V. Jain, S. Patnaik, F. Popentiu Vladicescu, and I.K. Sethi (Eds.). Proceedings of 5th International Conference on Intelligent Computing, Communication & Devices (ICCD 2018), Xi'an, China, November 22-24 of 2018. In Advances in Intelligent Systems and Computing, Springer Nature Singapore. Vol. 1006:1027-1033. ISSN 2194-5357. https://doi.org/10.1007/978-981-13-9406-5_122

Diván, M & Sánchez Reynoso, M (2019) “**Articulating Heterogeneous Data Streams with the Attribute-Relation File Format**”. In International Conference on Electrical and Electronic Engineering 2019 (ICON3E2019). Putrajaya, Malaysia, June 24-25 of 2019. American Institute of Physics (AIP), AIP Conference Proceedings 2173(1):1-10.
<https://doi.org/10.1063/1.5133936>

Diván, M & Sánchez Reynoso, M (2018) “**A library for articulating the measurement streams with columnar data**”. International Journal of Engineering and Technology

(UAE). Science Publishing Corporation. 7(4.31):234-241. ISSN: 2227-524X.
<https://www.sciencepubco.com/index.php/ijet/article/download/23373/11680>

Martín, M & Diván, M (2017) “**Applications of Case Based Organizational Memory Supported by the PAbMM Architecture**”. Advances in Science, Technology and Engineering Systems Journal (ASTES). Vol. 2, Issue 3, pp. 12-23. ISSN: 2415-6698.
<https://doi.org/10.25046/aj020303>

Diván, M & Martín, M (2017) “**Towards a Consistent Measurement Stream Processing from Heterogeneous Data Sources**”. International Journal of Electrical and Computer Engineering (IJECE). Vol.7 Issue 6, pp. 3164-3175.
<https://doi.org/10.11591/ijece.v7i6.pp3164-3175>

Diván, M, Bellini, Y, Martín, M, Belmonte, L, Lafuente, G & Caldera, J (2017) “**Towards a Data Processing Architecture of the Weather Radar of INTA Anguil**” (In Spanish). Publishing House of the National Institute of Agricultural Technology, Argentina. ISSN: 0325-2132, Vol. 105, May, pp. 125-135.

Diván, M & Olsina, L (2014) “**Process View for a Data Stream Processing Strategy based on Measurement Metadata**”. Electronic Journal of the Computer Science Argentinean Society. Vol.13 Issue 1, pp.16-34.
<https://publicaciones.sadio.org.ar/index.php/EJS/article/view/39>

Sánchez Reynoso, M & Diván, M (2014) “**A Monitoring Strategy of the Social Security Institute’s Processes, supported by a Measurement and Evaluation Framework for preventive analysis in the decision making**” (In Spanish). Perspectives Journal (Economy and Law School), Publishing House of the National University of La Pampa. Vol. 4 Issue 1, pp.11-26.
<http://www.biblioteca.unlpam.edu.ar/pubpdf/perspe/v04n1a02sanchez.pdf>

Diván, M, Olsina, L & Gordillo, S (2012) “**Strategy for Data Stream Processing based on Measurement Metadata: An Outpatient Monitoring Scenario**”. Journal of Software Engineering and Applications. Vol.4, Issue 12, pp.653-665.
<https://doi.org/10.4236/jsea.2011.412077>

Conference Papers

Diván, M, Sánchez-Reynoso, M & Gonnet, S (2021) “**Recent Applications of Federated Learning in Edge and IoT Environments: A Review**”. In 2021 IEEE 5th International Conference on Information Systems and Computer Networks (ISCON). Mathura, India. October 22-23 of 2021. <https://www.gla.ac.in/iscon2021/>. **Accepted & Presented. In press.**

Alvarado Domínguez, J, Pairol Fuente, R, Vegetti, M, Roldán, L, Gonnet, S & Diván, M (2021) “**Ontology Implementation of OPC UA and AutomationML: A Review**”. In 2nd International Conference on Advanced Intelligent Technologies (ICAIT). Xi’an, China. October 15-17 of 2021. <http://www.icaiconference.com/2021/menu/home>. **Accepted. In press.**

Kumar, R, Khatri, S & Diván, M (2021) “**Data Center Air Handling Unit Fan Speed Optimization Using Machine Learning Techniques**”. In 2021 IEEE 9th International

Conference on Reliability, Infocom Technologies, and Optimization (ICRITO). Noida, India. September 3-4 of 2021. Pp. 1-10.
<https://doi.org/10.1109/ICRITO51393.2021.9596311>.

Diván, M & Singh, M (2021) “**The Impact of the Measurement Process in Intelligent System of Data Gathering Strategies**”. In: Singh M., Kang DK., Lee JH., Tiwary U.S., Singh D., Chung WY. (eds) Intelligent Human Computer Interaction. IHCI 2020. Daegu, South Korea. November 24-26 of 2020. Lecture Notes in Computer Science, vol 12615. Springer, Cham. https://doi.org/10.1007/978-3-030-68449-5_43

Diván, M & Sánchez-Reynoso, M (2020) “**Relocating the Load-Shedding Strategy in the Data Stream Processing Architecture**”. In 2020 IEEE Argencon. Resistencia, Chaco, Argentina. December 1-4 of 2020. Pp. 1-8.
<https://doi.org/10.1109/ARGENCON49523.2020.9505446>.

Kumar, R, Khatri, S, & Diván, M (2020) “**Effect of Cooling Systems on the Energy Efficiency of Data Centers: Machine Learning Optimization**”. In 2020 International Conference on Computational Performance Evaluation (ComPE). Shillong, India. July 2-4 of 2020. Pp. 596-600. <https://doi.org/10.1109/ComPE49325.2020.9200088>

Sánchez Reynoso, M & Diván, M (2020) “**Applying Data Visualization Guideline on Forest Fires in Argentina**”. In 10th International Conference on Cloud Computing, Data Science, and Engineering (CONFLUENCE). Noida, Uttar Pradesh, India. January 29-31 of 2020. Pp. 617-622.
<https://doi.org/10.1109/Confluence47617.2020.9058174>

Sánchez Reynoso, M and Diván, M (2019) “**Contributions to the Communication of the Official Advertising’s Distribution in Argentina**”. 4th International Conference on Information Systems and Computer Networks. November 21 and 22, Mathura, India. pp. 508-513. <https://doi.org/10.1109/ISCON47742.2019.9036298>

Arias, A and Diván, M (2019) “**Contributions to the Genre Violence Analysis in Jujuy: Initial Characterization of Crimes**”. 4th International Conference on Information Systems and Computer Networks. November 21 and 22, Mathura, India. pp. 514-519. <https://doi.org/10.1109/ISCON47742.2019.9036189>

Diván, M and Sánchez Reynoso (2019) “**Incorporating Scenarios and States Definitions on Real-Time Entity Monitoring in PAbMM**”. In proc. XLV Latin-American Computer Conference, Panamá, September 30-October 4 of 2019.
<https://doi.org/10.1109/CLEI47609.2019.235072>.

Sánchez Reynoso, M & Diván, M (2019) “**A Systematic Literature Mapping on the Similar Semantically Entities in Measurement Projects**”. In Edutainment, The 13th International Conference on E-Learning and Games. Cali, Colombia, August 15-17 of 2019. <https://doi.org/10.1109/ICVRV47840.2019.00033>

Diván, M & Sánchez Reynoso, M (2018) “**Fostering the Interoperability of the Measurement and Evaluation Project Definitions in PAbMM**”. In Proceedings of 7th International Conference on Reliability, Infocom Technologies and Optimization

(ICRITO). Amity University & IEEE. Noida, Uttar Pradesh, India. pp. 228-234.
<https://doi.org/10.1109/ICRITO.2018.8748766>

Fritelli, V & Diván, M (2018) “**Classification Models for Information Retrieval**” (In Spanish). In Proceedings of VI National Conference on Computer Science/Information System Engineering, CAECE University. Mar del Plata, Argentina. pp. 446-458.
<http://ria.utn.edu.ar/bitstream/handle/123456789/3774/CONAIISI%202018%20v1.pdf?sequence=1&isAllowed=y>

Diván, M & Martín, M (2017) “**A New Storm Topology for Synopsis Management in the Processing Architecture**”. In Proceedings of XLIII Latin-American Computer Conference. National Technological University, Computer Science Argentinean Society and Latin-American Computer Centre. Córdoba, Argentina.
<https://doi.org/10.1109/CLEI.2017.8226398>

Diván, M, Sánchez Reynoso, M, Veralli, F & Ostoich, M (2017) “**Experiences in the Business Process Modelling at Public Organizations of La Pampa**”. In Proceedings of 6th International Conference on Reliability, Infocom Technologies and Optimization (ICRITO). Amity University & IEEE. Noida, Uttar Pradesh, India. pp. 326-332. <http://doi.org/10.1109/ICRITO.2017.8342446>

Sánchez Reynoso, Diván, M & Veralli, F (2017) “**Associative Data Model: Academic Experiences and A Study Case in Small and Medium Business of La Pampa**” (In Spanish). In Proceedings of V National Conference on Computer Science/Information System Engineering, National Technological University, Delegation: Santa Fe. Santa Fe, Argentina. <http://tecnomate.xyz/Actas-CONAIISI-2017.pdf>

Diván, M & Sánchez Reynoso, M (2017) “**Behavioural Similarity Analysis for Supporting the Recommendation in PAbMM**”. In Proceedings of International Conference on Infocom Technologies and Unmanned Systems (ICTUS). Amity University & IEEE. Dubai, UAE. Pp.133-139.
<https://doi.org/10.1109/ICTUS.2017.8285992>

Diván, M, & Martín, M (2016) “**Processing Architecture oriented to Measurement Metadata**” (In Spanish). In Proceedings of Argentine Symposium of Software Engineering. Computer Science Argentinean Conference. Buenos Aires, Argentina. ISSN 2451-7593. pp.64-75. <http://45jaiio.sadio.org.ar/sites/default/files/asse-07.pdf>

Martín, M & Diván, M (2016) “**Case-based Organizational Memory for Processing Architecture based on Measurement Metadata**”. In Proceedings of 5th International Conference on Reliability, Infocom Technologies and Optimization (ICRITO). Amity University & IEEE. Noida, Uttar Pradesh, India. pp. 214-220.
<https://doi.org/10.1109/ICRITO.2016.7784954>

Diván, M & Martín, M (2016) “**Organizational Memory with Feedback from Data Streams applied to the Prediction of Pastures**” (In Spanish). In Proceedings of IV National Conference on Computer Science/Information System Engineering, Salta's Catholic University. Salta, Argentina. ISSN 2347-0372. Full proceedings available at <http://www.ucasal.edu.ar/conaiisi2016/book/memorias.html>. Direct Paper Access: <https://drive.google.com/file/d/0Byd3HXEW6NCBWWtPZIM2VItZ0U/view>

Ostoich, M & Diván, M (2016) **“Towards the Monitoring of Processes in the Prosecutor of Administrative Researching of La Pampa”** (In Spanish). In Proceedings of 1st International Conference on Institutions and Multidisciplinary. Economic and Law School, National University of La Pampa. La Pampa, Argentina. ISBN 978-950-863-277-7. pp. 236-256. Full proceedings available at DOI: <https://doi.org/10.6084/m9.figshare.9947408>

Ávalos Serrano, V & Diván, M (2015) **“An Integrated Strategy based on Processes, Requirements, Measurement, and Evaluation for the formalization of necessities in Data Warehouse Projects”**. In Proceedings of International Workshop on Data Mining with Industrial Applications. National University of Asunción. San Lorenzo, Paraguay. pp 8-17. <https://doi.org/10.1109/DMIA.2015.13>

Diván, M, Bellini, Y, Martin, M, Belmonte, L, Lafuente, G & Caldera, J (2015) **“Towards a Data Processing Architecture for the Weather Radar of the INTA Anguil”**. In Proceedings of International Workshop on Data Mining with Industrial Applications. National University of Asunción. San Lorenzo, Paraguay. Pp 72-78. <https://doi.org/10.1109/DMIA.2015.12>

Diván, M, Sánchez Reynoso, M, Fredes, M, Oddone, A, Cavallo, S & Martínez, A (2015) **“A Process-guided Automatization in the Autarchic Institute of Housing of La Pampa”** (In Spanish). In Proceedings of III National Conference on Computer Science/Information System Engineering, National Technological University, Delegation Buenos Aires. Buenos Aires, Argentina. <https://doi.org/10.6084/m9.figshare.9939203>

Diván, M, Bellini, Y, Martin, M, Belmonte, L, LaFuente, G & Caldera, J (2015) **“Perspectives in the Data Stream Processing of the Weather Radar of INTA Anguil”** (In Spanish). In Proceedings of the Computer Science Argentine Conference. Computer Science Argentine Society. National University of Rosario. Santa Fe, Argentina. ISSN 2451-7534. pp.31-33. <http://44jaiio.sadio.org.ar/sites/default/files/agranda31-33.pdf>

Diván, M, Bellini, Y, Martin, M, Belmonte, L, LaFuente, G & Caldera, J (2015) **“Architectural Synthesis for the Data Stream Processing of the Weather Radar of INTA Anguil”** (In Spanish). In Proceedings of the Computer Science Argentine Conference. Computer Science Argentine Society. National University of Rosario. Santa Fe, Argentina. ISSN 2451-7534. pp.74-87. <http://44jaiio.sadio.org.ar/sites/default/files/sie74-87.pdf>

Diván, M & Martín, M (2015) **“A Strategy for Data Stream Processing based on an Organizational Memory and Big Data”** (In Spanish). In Proceedings of III National Conference on Computer Science/Information System Engineering, National Technological University, Delegation Buenos Aires. Buenos Aires, Argentina. <https://doi.org/10.6084/m9.figshare.9939206>

Ostoich, M & Diván, M (2015) **“Monitoring the Processes of the Prosecutor’s Office in La Pampa”** (In Spanish). In Proceedings of III National Conference on Computer Science/Information System Engineering, National Technological

University, Delegation Buenos Aires. Buenos Aires, Argentina.
<https://doi.org/10.6084/m9.figshare.9939209>

Diván, M, Sánchez Reynoso, M, Fredes, M, Oddone, A, Cavallo, S & Martínez, A (2014) “**Towards a Service-Oriented Architecture in the Autarchic Provincial Institute of Housing of La Pampa**” (In Spanish). In Proceedings of The Computer Science Argentinean Conference. Computer Science Argentinean Society. The University of Palermo. Buenos Aires, Argentina. ISSN 1851-2526. pp. 49-60.
<http://43jaiio.sadio.org.ar/proceedings/SIE/5-SIE622.pdf>

Diván, M, Sánchez Reynoso, M, Fredes, M, Oddone, A, Cavallo, S & Martínez, A (2014) “**A Data Monitoring Strategy based on Snapshots for the Score Calculation in the Housing Distribution**”. In Proceedings of Latin-American Computer Conference. Latin-American Computer Centre. Montevideo, Uruguay.
<https://doi.org/10.1109/CLEI.2014.6965104>

Ávalos, V & Diván, M (2014) “**An Integrated Strategy based on Processes, Requirements, Measurement and Evaluation for the Requirement Engineering in Data Warehouse Projects**” (In Spanish). In Proceedings of II National Conference on Computer Science/Information System Engineering, National University of San Luis. San Luis, Argentina. ISSN 2346-9927, pp. 358-367.
<https://doi.org/10.6084/m9.figshare.9939338>
<http://conaiisi.unsl.edu.ar/ProceedingsCoNalISI2014.pdf>

Diván, M & Sánchez Reynoso, M (2013) “**Software Perspectives as a Public Work in La Pampa**” (In Spanish). In Proceedings of I National Conference on Computer Science/Information System Engineering, National Technological University, Delegation: Córdoba. Córdoba, Argentina.
<http://conaiisi.frc.utn.edu.ar/PDFsParaPublicar/1/schedConfs/2/2-454-1-DR.pdf>
<https://doi.org/10.6084/m9.figshare.9939410>

Diván, M & Olsina, L (2013) “**A Process Perspective related to the Integrated Approaching for Data Stream Processing based on Measurement Metadata**” (In Spanish). In Proceedings of Computer Science Argentinean Conference. Computer Science Argentine Society. ISSN 1850-2792, pp.66-80.
<http://42jaiio.sadio.org.ar/proceedings/simposios/Trabajos/ASSE/06.pdf>
<https://doi.org/10.6084/m9.figshare.9939467>

Diván, M, Martín, M, & Olsina, L (2013) “**Towards the feedback in the data stream strategy based on the organizational memory**” (In Spanish). In Proceedings of I National Conference on Computer Science/Information System Engineering, National Technological University, Delegation: Córdoba. Córdoba, Argentina.
<http://conaiisi.frc.utn.edu.ar/PDFsParaPublicar/1/schedConfs/7/30-453-1-DR.pdf>
<https://doi.org/10.6084/m9.figshare.9939491>

Diván, M & Sánchez Reynoso, M (2012) “**Formalizing the Social Security Institute’s Processes**” (In Spanish). In Proceedings of Computer Science Argentine Conference. Computer Science Argentine Society. La Plata, Argentina, August 27-31 of 2012. ISSN 1851-2526, pp.233-247. DOI: <https://doi.org/10.6084/m9.figshare.9947270>

Diván, M, Olsina, L & Gordillo, S (2011) “**Data Stream Processing enriched with Measurement Metadata**” (In Spanish). In Proceedings of Iberoamerican Software Engineering Conference. Pontifical Catholic University. Rio de Janeiro, Brazil, April 27-29 of 2011. pp.251- DOI: <https://doi.org/10.6084/m9.figshare.9947234>

Diván, M, Olsina, L & Gordillo, S (2011) “**Simulating an Integrated Strategy of Data Stream Processing applied to an Outpatient Scenario**” (In Spanish). In Proceedings of Computer Science Argentine Conference. Computer Science Argentine Society. La Plata, Argentina. ISSN 1850-2792, pp.61-72. DOI: <https://doi.org/10.6084/m9.figshare.9947273>

Diván, M & Olsina, L (2009) “**Specifying data sources in the Integrated Schema of Stream Processing**” (In Spanish). In Proceedings of the Computer Science Conference. The National University of Jujuy. Jujuy, Argentina. ISBN 978-897-24068-4-1. DOI: <https://doi.org/10.6084/m9.figshare.9947243>

Diván, M & Olsina, L (2009) “**An Integrated Approach for the Data Stream Processing: An Application Scenario**” (In Spanish: “Enfoque integrado para el procesamiento de flujos de datos: Un escenario de uso”). In Proceedings of 12th Iberoamerican Conference on Requirements Engineering and Software Environments, IDEAS 2009. EAFIT University. Medellín, Colombia, April 13-17 of 2009. Pp. 374-387. DOI: <https://doi.org/10.6084/m9.figshare.9947258>

Diván, M & Olsina, L (2008) “**Integrating Measurement and Evaluation Approaches with Data Mining and Data Stream Processing**” (In Spanish). In Proceedings of Computer Science Workshop. The National University of La Pampa. La Pampa, Argentina. ISBN 978-950-863-101-5. DOI: <https://doi.org/10.6084/m9.figshare.9947276>

Diván, M, Molina, H & Olsina, L (2008) “**Towards an Integrated Model for the Data Stream Processing**” (In Spanish). In Proceedings of The Computer Science Conference. The National University of Chilecito. La Rioja, Argentina. DOI: <https://doi.org/10.6084/m9.figshare.9947279>

Other

Frittelli, V & Diván, M (2019) “**A Strategy of Approach and Visualization based on Semantic Graphs for Big Data**”. AJEA. Issue 4. pp. 1:4. Córdoba, Argentina. DOI: <https://doi.org/10.33414/ajea.4.407.2019>

Sánchez Reynoso, M & Diván, M (2019) “**Similarity-based Recommendation Strategy for Big Measurement Repositories**”. AJEA Issue 4. pp. 1:6. Córdoba, Argentina. DOI: <https://doi.org/10.33414/ajea.4.414.2019>

Diván, M, Aimar, R, Santa Marta, R, Lezcano, E, Veralli, F, Barbero, C, Casadio Martínez, C, Segovia, D, Farias, C, Rulli, M & Rio, T (2015) “**Practical Guide Series on Information Technology applied to the Economic Sciences**” (In Spanish).

Publishing House of the National University of La Pampa. 407 pages. ISBN 978-950-863-863-2

Diván, M, Ayechu, D & Vidal, L (2013) “**Process Modelling using SPEM and the Eclipse Process Framework Composer**” (In Spanish). In Proceedings of 1st Pedagogical Workshop on the use of TICs in the University. National University of La Pampa. La Pampa, Argentina.

Diván, M, Santa Marta, R, Lezcano, E, Barbero, C, Segovia, D, Rulli, M, Aimar, R, Veralli, F, Casadio, C, Farias, C & Rio, T (2013) “**Visual Data Analysis using Qlik and Tableau**” (In Spanish). In Proceedings of 1st Pedagogical Workshop on the use of TICs in the University. National University of La Pampa. La Pampa, Argentina.

Diván, M (2011) “**An Integrated Approaching for the Data Stream Processing based on Measurement Metadata**” (In Spanish). Ph.D.’s Thesis. Computer Science School, National University of La Plata. Argentina. DOI: <https://doi.org/10.35537/10915/4198>

Diván, M (2011) “**Gathering and Ordering of Concurrent and Simultaneous Data Streams**” (In Spanish). Specialty’s Thesis. Specialty in High Performance and Grid Computing. Computer Science School, National University of La Plata. Argentina. DOI: <https://doi.org/10.13140/RG.2.2.30510.15687>

Diván, M, Diván, P, Alpa, O, Casadio Martínez, C, Lezcano, E, Segovia, D & Testa, O (2007) “**Recommendations for the Software Providing in Public and Private Organisms of the Province of La Pampa**” (In Spanish: Recomendaciones para el Aprovechamiento de Software en Organismos Públicos de La Pampa). Publishing House of the National University of La Pampa. 104 pages. ISBN 978-950-863-098-8. DOI: <https://doi.org/10.6084/m9.figshare.9947366>

Diván, M (2006) “**Building a Cellular Distribution Centre Framework for stocking honey at the Doblas’s Cooperative**” (In Spanish). MBA’s Thesis. National Technological University, Córdoba, Argentina. DOI: <https://doi.org/10.13140/RG.2.2.27154.71360>

Awards and Honors

[2021] **Best Virtual Video Presentation Award**. 1st International Conference on Computing, Engineering, and Applied Sciences (ICCEAS). Virtual Conference. University Malaysia Perlis.

[2021] **Best Constructive Review Award**. 1st International Conference on Computing, Engineering, and Applied Sciences (ICCEAS). Virtual Conference. University Malaysia Perlis.

[2019] **Elevation to IEEE Senior Member Grade**. IEEE. The USA.

[2018] **Best Paper Award – Data Analytics Track** for the paper “Fostering the Interoperability of the Measurement and Evaluation Project Definitions in PAbMM”. 7th

International Conference on Reliability, Infocom Technologies and Optimization (ICRITO). Amity University & IEEE. Noida, Uttar Pradesh, India.

[2017] **Best Paper Award – Data Analytics Track** for the paper “Experiences in the Business Process Modelling at Public Organizations of La Pampa” in the Data Analytics Track. 6th International Conference on Reliability, Infocom Technologies and Optimization (ICRITO). Amity University & IEEE. Noida, Uttar Pradesh, India.

[2016; till now] **Honorary Professor – Amity Institute of Information Technology** Amity University; Noida, Uttar Pradesh (India).

[2016] **Best Paper Award – Data Analytics Track** for the paper “Case-based Organizational Memory for Processing Architecture based on Measurement Metadata” in the Data Analytics Track. 5th International Conference on Reliability, Infocom Technologies and Optimization (ICRITO). Amity University & IEEE. Noida, Uttar Pradesh, India.

[2015] **National Award on Electronic Government** for the paper “Towards a Data Processing Architecture of the Weather Radar of INTA Anguil”. Computer Science Argentinean Society. (*) This award was a partial result of the Technical Cooperation Agreement between the Engineering School (National University of La Pampa) and the National Institute of Agricultural Technology. Rosario, Santa Fe, Argentina.

[2012] **National Award on Electronic Government** for the paper “Towards the Monitoring of Social Security Processes in the Social Security Institute of La Pampa”. Computer Science Argentinean Society. La Plata, Buenos Aires, Argentina.

Grants and Fellowships

[2018; 2021] **“Real-Time Decision Making on Measurement and Evaluation Projects”**. Director: Diván, Mario. Funding institution: Economy and Law School, National University of La Pampa (Argentina). Administrative Act: Res.CD 312/18. Budget: 18.200 USD.

[2016; 2019] **“Interoperability in the Measurement Process with Heterogeneous Data Sources”**. Director: Diván, Mario. Funding institution: Economy and Law School, National University of La Pampa (Argentina). Administrative Act: Resc.CD 278/16. Budget: 9096 USD.

[2015; 2018] **“Distributed Organizational Memory based on Ontologies with Data Stream Processing for Knowledge Capturing”**. Director: Martín, María de los Ángeles. Co-Director: Diván, Mario. Funding institution: Engineering School, National University of La Pampa (Argentina). Act: Res.CD 155/14. Budget: 18.520 USD.

[2013; 2016] **“An Integrated Strategy of Distributed Organizational Memory based on Ontologies with Data Stream Processing”**. Director: Martín, María de los Ángeles. Co-Director: Diván, Mario. Funding institution: Engineering School, National University of La Pampa (Argentina) jointly with the Science and Technology Ministry of Argentina’s Government. Administrative Act: PICTO-2011-0277. Budget: 11.536 USD.

[2012; 2015] **“Toward the Formalization of Processes in the Integrated Strategy of data stream processing based on measurement metadata”**. Director: Diván, Mario. Funding Institution: Economy and Law School, National University of La Pampa (Argentina). Administrative Act: Res.CD 66/12. Budget: 34.800 USD.

[2010; 2014] **“Measurement and Evaluation Frameworks based on Ontologies applied to the Software Industrial Process”**. Director: Olsina, Luis. Researcher: Diván, Mario. Funding Institution: Engineering School, National University of La Pampa (Argentina). Administrative Act: 09-F047. Budget: 13.806 USD.

[2009; 2013] **“A Context-Aware Integrated Approach for Assessment and Recommending, based on Organizational Memory for Software and Web Projects”**. Director: Olsina, Luis. Researcher: Diván, Mario. Funding Institution: Engineering School, National University of La Pampa (Argentina) jointly with the Science and Technology Ministry of Argentina’s Government. Administrative Act: PAE-PICT 2188. Budget: 59.720 USD.

[2007] **Attendance to the Second Doctoral Summer School at La Plata -**. Funding Institution: Alfa Project WEE-Net. European Community. Representing the Engineering School, National University of La Pampa (Argentina). Budget: 1.000 USD

[2006] **Attendance to the First Doctoral Summer School at Trento -Italy-**. Funding Institution: Alfa Project WEE-Net. European Community. Representing the Engineering School, National University of La Pampa (Argentina). Budget: 3.000 USD.

[Jan-2006; Abr-2007] **Doctoral Fellowship - Kind I**. Funding Institution: The National Scientific and Technical Research Council of Argentina’s Government. Budget: 5057 USD

[2005; 2007] **“Recommendations for Software Providing in Public and Private Organisms of the Province of La Pampa”**. Director: Diván, Mario. Funding Institution: Economy and Law School, National University of La Pampa (Argentina). Administrative Act: Res.CD 248/05. Budget: 1.000 USD. Satisfactory Assessment.

[2005; 2008] **“Models and Technologies for Supporting Measurement and Evaluation Projects in Assurance”**. Director: Director: Olsina, Luis. Researcher: Diván, Mario. Funding Institution: Engineering School, National University of La Pampa (Argentina). Administrative Act: Res.CD 047/05 and Res.CD 049/07. Budget: 1.000 USD.

Conferences

Invited Talks / Keynotes

Diván, M (2021) **“Challenges around Data Collection Systems for IoT-based Outpatient Monitoring”**. International Conference on Recent Advances in Material Science and Computational Techniques (RAMSACT). November 24-26. Manipal University Jaipur. Jaipur, India.

Diván, M (2021) “**Approaches around IoT-based and Edge Computing Real-time Collection Systems**”. International Conference on Technological Advancements and Innovations (ICTAI). November 10-12. Amity University Tashkent. Tashkent, Uzbekistan.

Diván, M (2021) “**IoT-based Approaches to Monitor Air Quality**”. 5th International Conference on Information System and Computer Networks (ISCON). October 22-23. Organized by IEEE & GLA University. Mathura, India.

Diván, M (2021) “**Articulating a Measurement Ontology with the IoT-based Real-time Data Collecting Systems**”. 9th International Conference on Reliability, Infocom Technology and Optimization (ICRITO). September 3-4. Organized by IEEE & Amity University. Noida, India.

Diván, M (2021) “**Artificial Internet-of-Things (AIOT) and Smart Cities**”. 2021 China National EDUxIndustry summit. June 11-12. Organized by the Ministry of Education and Nanchang University. Nanchang, China.

Diván, M (2021) “**Sustainable Computation and Data Collecting Systems**”. International Conference on Sustainable Computing (SUSCOM-2021). March 19-20. Sri Balaji College of Engineering and Technology. Jaipur, India.

Diván, Mario (2021) “**IoT based Data Collection Systems: Towards a Real-Time Data Science**”. 11th International Conference on Cloud Computing, Data Science, and Engineering (CONFLUENCE). 28-29 January 2021. Noida, Uttar Pradesh, India.
<https://www.amity.edu/aset/confluence2021/>

Diván, Mario (2020) “**The Impact of the Measurement Process in Intelligent System of Data Gathering Strategies**”. 12th International Conference on Intelligent Human Computer Interaction. 24-26 November of 2020. Daegu, South Korea.
<http://micro.daeguvcv.com/Main/?CID=780>

Diván, Mario (2020) “**An Online Data-Driven Decision-Making Strategy**”. World Conference on VR Industry. October 19-20 of 2020. Nanchang, China.
<https://www.wcvri.cn/livetelecast/?mode=6> (Minute 23 onwards).

Diván, M (2020) “**Internet of Things and the Knowledge Industry**” (*In Spanish*). Jornadas de Ciencias Económicas – Investigación y Vinculación (Conference on Economy Science – Research and Linkage). September 7 of 2020.
<https://youtu.be/ESfDfVS-3Xg>

Diván, M (2020) “**IoT-based Collection Systems: A measurement perspective**”. International Conference on Advancement in Interdisciplinary Research (ICAIR). July 24-26 of 2020. <http://www.icaair.online>

Diván, M (2020) “**Detecting and Synthesizing Changes of Scenarios and States on measurement data streams**”. International Conference on Computational Performance Evaluation (ComPE). July 2-4 of 2020. IEEE Conference #4325.
<https://compe2020.com>

Diván, M (2020) “**Towards a Real-time Measures Processing in Heterogeneous and Distributed Environments**”. 8th International Conference on Reliability, Infocom Technologies, and Optimization (ICRITO). June 4-5 of 2020. IEEE Conference #48877. <https://doi.org/10.1109/ICRITO48877.2020.9198026>

Diván, M (2019) “**Real-Time Data Processing based on Multilayer Sliding Logical Windows and the Measurement Interchange Schema**”. 4th International Conference on Information Systems and Computer Networks. November 21 and 22, Mathura, India. pp. 757-762. <https://doi.org/10.1109/ISCON47742.2019.9036200>

Diván, M (2019) “**Towards a Multi-Criteria Decision-Making in the Real-Time Data Processing**”. Edutainment, The 13th International Conference on E-Learning and Games. Cali, Colombia, August 15-17 of 2019. <https://doi.org/10.1109/ICVRV47840.2019.00042>

Diván, M (2019) “**A Real-Time Atypical Amplitude Detection based on Measurement Metadata**”. In Proceedings of Amity International Conference on Artificial Intelligence (AICAI), Organized by Amity University and Technically Sponsored by IEEE. Dubai, UAE. <https://doi.org/10.1109/AICAI.2019.8701342>

Diván, M (2018) “**Applying the Real-Time Monitoring based on Wireless Sensor Networks: The Bajo Giuliani Project**”. In Proceedings of 7th International Conference on Reliability, Infocom Technologies and Optimization (ICRITO). Amity University & IEEE. Noida, Uttar Pradesh, India. <https://doi.org/10.1109/ICRITO.2018.8748648>

Diván, M (2017) “**Strategy for the Data Monetization in Tune with the Data Stream Processing**”. In Proceedings of 6th International Conference on Reliability, Infocom Technologies and Optimization (ICRITO). Amity University & IEEE. Noida, Uttar Pradesh, India. pp. 81-91. <https://doi.org/10.1109/ICRITO.2017.8342404>

Diván, M (2017) “**Data-Driven Decision Making**”. In Proceedings of International Conference on Infocom Technologies and Unmanned Systems (ICTUS). Amity University & IEEE. Dubai, UAE. Pp.50-56. <https://doi.org/10.1109/ICTUS.2017.8285973>

Diván, M (2016) “**Processing Architecture based on Measurement Metadata**”. In Proceedings of 5th International Conference on Reliability, Infocom Technologies and Optimization (ICRITO). Amity University & IEEE. Noida, Uttar Pradesh, India. pp. 6-15. <https://doi.org/10.1109/ICRITO.2016.7784912Ss>

Campus Talks

Diván, M (2021) “**Real-time Data Collection Systems based on Internet of Things**”. IEEE – Computational Intelligence Section - Argentina Chapter. October 4 of 2021.

Diván, M (2021) “**Data Concerns related to Real-Time Systems and Data Science Models**”. Department of Artificial Intelligence (AI) and Data Sciences and Centre of Excellence – AI. Indira Gandhi Delhi Technical University for Women (IGDTUW). August 27 of 2021.

Diván, M (2021) “**Challenges and Opportunities around the IoT-based Data Collection**”. University of Liberal Arts (ULAB). Bangladesh. July 3. <https://nep.facebook.com/cse.ulab/videos/396085538504177/>.

Diván, M (2019) “**Measurement and Real-Time Data Processing**”. Faculty Development Program. Amity University - Dubai. February 4-6, Dubai, The United Arab Emirates.

Diván, M (2018) “**The Role of the Measurement in the Real-Time Decision-Making Support: From the IoT to the Incremental Classifiers through the Organizational Memory**”. Faculty Development Program, Amity Institute of Information Technology, Amity University. August 29-31, Noida, Uttar Pradesh, India.

Diván, M (2017) “**The Impact of the Measurement Process in the Data Repositories and the Data Stream Processing**”. Faculty Development Program, Amity Institute of Information Technology, Amity University. September 20-22, Noida, Uttar Pradesh, India.

Diván, M (2016) “**Measurement and Evaluation: Data and Metadata**”. Faculty Development Program, Amity Institute of Information Technology, Amity University. September 7-9, Noida, Uttar Pradesh, India.

Conference Participation (Last five years)

Coming Conferences

2021

13th International Conference on Intelligent Human Computer Interaction (IHCI). December 20-22 of 2021. Kent, Ohio, The United States of America. Kent State University. Technical Program Committee (TPC) Member. <https://www.ihci.cs.kent.edu/index.php/organization/>

IX Argentinean Conference on Computer Science/Information System Engineering. November 4-5 of 2021. Mendoza, Argentina. National Technological University. Chair in the Database Track. <https://www4.frm.utn.edu.ar/conaiisi/comite-academico/>

Past Conferences

5th International Conference on Information Systems and Computer Networks (ISCON). 22-23 October of 2021, Mathura, India. Technical Program Committee (TPC) Member. <https://www.gla.ac.in/iscon2021/>

Agroinformatics Argentinean Congress. Computer Science Argentine Society. 18-29 October. Buenos Aires, Argentina. PC Member. <https://50jaiio.sadio.org.ar/simposios/CAI>

11th International Conference on Virtual Reality and Visualization. 17-20 October of 2021, Nanchang, China. Program Committee (TPC) Member. <http://www.icrvr.org/index.html>

International Conference on Computational Intelligence and Data Science (ICCIDS-2021). September 1-2 of 2021, Gurugram, Haryana, India. Technical Program Committee (TPC) Member.

16th Iberian Conference on Information Systems and Technologies (CISTI). 23-26 of June of 2021. Chaves, Portugal. Technical Program Committee (TPC) Member.
<http://www.cisti.eu/>

2nd International Conference on Agriculture and IoT/ICT/IT(ICAIT2021). 23-25 April of 2021. Xi'an, China. International Advisory Board/Program Committee Member.
<http://icaitconference.com/2021/menu/home>

5th International Conference on Advances in Computing and Data Sciences (ICACDS-2021). APRIL 23-24, 2021. Nashik, Maharashtra, India. Karmaveer Baburao Thakare College of Engineering. Technical Program Committee (TPC) Member.
<https://icacds.com>

International Conference on Sustainable Computing (SUSCOM). March 19-20, 2021. Jaipur, Rajasthan, India. Sri Balaji College of Engineering & Technology. General Chair (GC). <http://www.suscom.org.in>

International Conference on Intelligent Cyber-Physical Systems (ICPS 2021). March of 2021. Jaipur, Rajasthan, India. Indian Institute of Information Technology Kota. Technical Program Committee (TPC) Member.

2nd International Conference on Communication and Computational Technologies (ICCCT 2021). February 27-28, 2021. Jaipur, Rajasthan, India. Rajasthan Institute of Engineering and Technology. Technical Program Committee (TPC) Member. <https://www.iccct21.scrs.in/>

2020

2nd International Conference on Communication and Intelligent Systems (ICCIS 2020). December 26-27. Bhimtal, Nainital Uttarakhand, India. Birla Institute of Applied Sciences. Advisory Committee Member. <https://www.iccis20.scrs.in>

International Conference on Computational Intelligence (ICCI 2020). December 12-13 of 2020. Pune, India. Indian Institute of Information Technology, Pune (IIIT Pune). Advisory Committee Member. <http://icci2020.scrs.in>

VIII Argentinean Conference on Computer Science/Information System Engineering. November 5-6. San Francisco, Córdoba, Argentina. National Technological University. Technical Program Committee (TPC) Member.
<https://conaiisi2020.sanfrancisco.utn.edu.ar>

Agroinformatics Argentinean Congress. Computer Science Argentine Society. October 19-30. Buenos Aires, Argentina. PC Member.
<https://49jaiio.sadio.org.ar/simposios/CAI>

Congress on Intelligent Systems. September 5-6, Virtual Mode. Program Committee (PC) Member and Reviewer. <https://www.cis2020.scrs.in>

XV Conference on Software and Knowledge Engineering. August 28. Technical Program Committee (TPC) Member. <http://www.jiisic2020.com.co>

1st International Conference on Mathematical Modeling and Computational Science (ICMMCS 2020). August 14-15. International Advisory Committee Member. <http://www.icmmcs.in>

IEEE Smart Data Services. July 7-11, Beijing, China. Peking University. Program Committee (PC) Member. <https://conferences.computer.org/smartdataservices/2020/>

IEEE International Conference on Computational Performance Evaluation (ComPE-2020). July 2-4, Shillong, India. North-Eastern Hill University (NEHU). Invited Speaker / Track Chair – Data Science and their Applications. <http://compe2020.com>

15th Iberian Conference on Information Systems and Technologies (CISTI). 24-27 of June. Sevilla, Spain. Universidad de Castilla – La Mancha. Technical Program Committee (TPC) Member. <http://www.cisti.eu/2020/index.php?lang=es>

IEEE International Conference on Computer Communications (INFOCOM) – Workshops BlockSecSDN: Blockchain for Secure Software defined Networking in Smart Communities. 27-30 April, Beijing, China. Reviewer. <https://infocom2020.ieee-infocom.org>

Sixth International Symposium on Innovation in Information and Communication Technology. April 8-9, Amman, Jordan. Philadelphia University. PC Member. <http://www.philadelphia.edu.jo/it/isiict2020/>

3rd International Conference on Computer Applications & Information Security (ICCAIS). Mar 19-21. Riyadh, Saudi Arabia. Organized by Saudi Computer Society & IEEE Saudi Arabia Section. PC Member. <https://www.iccais.tech/>

4th International Conference on Innovative Advancements in Engineering & Technology. 21-22 February, Jaipur, India. Jaipur National University. Technical Program Committee (TPC) Member. <http://iaet.jnujaipur.ac.in>

2nd International Conference on Cyber Security and Computer Science (ICONCS). 15-16 February, Savar, Dhaka, Bangladesh. Daffodil International University (DIU). Reviewer. <http://iconcs.daffodilvarsity.edu.bd>

4th International Conference on Soft Computing and Data Mining (SCDM). 22-23 January, Universiti Tun Hussein on Malaysia. TPC Member. <http://scdm.uthm.edu.my/scdm2020/>

2019

International Conference on Computational Intelligence and Knowledge Economy (ICCIKE). 11-12 December, Amity University Dubai, The United Arab Emirates. TPC Member. <https://amityuniversity.ae/iccike2019>

5th International Conference on Image Information Processing (ICIIP). November 15-19. Wahnaghat, District Solan, Near Shimla, Himachal Pradesh. Organized by Jaypee University of Information Technology & IEEE. PC Member.
http://www.juit.ac.in/iciip_2019/

Agroinformatics Argentinean Congress. Computer Science Argentine Society. September 16-20. Salta, Argentina. PC Member.
<http://48jaiio.sadio.org.ar/simposios/CAI>

Edutainment 2019. The 13th international conference on e-learning and games. August 15-17. Cali, Colombia. Organized by Pontificia Universidad Javeriana. Keynote Speaker / Program Co-Chair.
<https://proyectos.javerianacali.edu.co/anavarro/Edutainment2019/>

IEEE BigData Congress. July 8-13. Milan, Italy. Program Committee (PC) Member.
<https://conferences.computer.org/bigdatacongress/2019/>

2nd International Conference on Computer Applications & Information Security (ICCAIS). May 1-3. Riyadh, Saudi Arabia. Organized by Saudi Computer Society & IEEE Saudi Arabia Section. PC Member. <https://www.iccais.tech/2016/10/15/iccais-2019/>

The 34th ACM Symposium on Applied Computing. April 8-12. Limassol, Cyprus. University of Cyprus & ACM. Reviewer. <https://www.sigapp.org/sac/sac2019/>

International Conference on Sustainable Technologies for Computational Intelligence (ICTSCI). March 29-30. Jaipur, Rajasthan, India. Organized by Computer Science of India & Sri Balaji College of Engineering and Technology. TPC Chair. <http://ictsci.in/>

Amity International Conference on Artificial Intelligence (AICAI'2019). February 4-6. Dubai, UAE. Organized by Amity University and IEEE. Technical Program Committee (TPC) Member / Speaker. <https://www.amity.edu/aiit/aicai2019/>

2018

2nd International Conference on Entrepreneurship, Innovation, and Leadership (ICEIL). December 19-21. Noida, Uttar Pradesh, India. Organized by Amity University and technically co-sponsored by IEEE UP. PC Member.
<https://www.amity.edu/iceil2018/>

VI Argentinean Conference on Computer Science/Information System Engineering. November 29-30. Mar del Plata, Argentina. CAECE University. PC Member. <https://www.conaiisi2018mdp.org/>

5th IEEE International Symposium on Innovation in Information and Communication Technology (ISIICT). October 31-November 1. Amman Jordan. Organized Amity University & Philadelphia University. PC Member.
<https://www.philadelphia.edu.jo/it/isiict2018/>

Agroinformatics Argentinean Congress. Computer Science Argentine Society. September 5-8. Buenos Aires, Argentina. PC Member. <http://47jaiio.sadio.org.ar/index.php?q=node/87>

7th International Conference on Reliability, Infocom Technologies and Optimization (ICRITO). August 29-31. Noida, Uttar Pradesh, India. Organized by Amity University and technically co-sponsored by IEEE UP. PC Member, Speaker and Session Chair. <https://www.amity.edu/aiit/icrito2018/>

International Conference on Innovations in Intelligent Systems and Applications (INISTA). July 3-5. Thessaloniki, Greece. Special Session on Reasoning-based Intelligent Systems. Organized by Aristotle University of Thessaloniki. PC Member. <http://inista.org/inista18/ris2018.html>

IEEE International Congress on Big Data. July 2-7. San Francisco, USA. Organized by IEEE. PC Member. <https://conferences.computer.org/bigdatacongress/2018/>

21st Saudi Computer Society National Computer Conference (NCC). April 25-26. Riyadh, Saudi Arabia. IEEE Saudi Section. PC Member. www.scs-ncc.tech

International Conference on Advances in Computing and Data Sciences (ICACDS). April 20-21. Dehradun, Uttarakhand, India. Organized by Uttaranchal University and co-sponsored by Computer Science of India. PC Member. <https://icacds.com/icacds2018/>

1st International Conference on Computer Applications & Information Security (ICCAIS). April 4-6. Riyadh, Saudi Arab. Organized by Saudi Computer Society & IEEE Saudi Arabia Section. PC Member. <https://www.iccais.tech/2017/11/04/iccais-2018/>

2017

4th International Conference on Image Information Processing (ICIIP). December 21-23. Wagnaghat (Himachal Pradesh), India. Organized by the Jaypee University of Information Technology. PC Member. http://www.juit.ac.in/ICIIP_2017/index.php

International Conference on Infocom Technologies and Unmanned Systems (ICTUS). December 18-20. Dubai, UAE. Organized by Amity Directorate of Engineering and Technology. PC Member, Speaker and Session Chair. <https://www.amity.edu/aiit/ictus2017/>

V Argentinean Conference on Computer Science/Information System Engineering. November 2-3. Santa Fe, Argentina. National Technological University. PC Member & Track Chair. <http://conaiisi2017.frsf.utn.edu.ar>

6th International Conference on Reliability, Infocom Technologies and Optimization (ICRITO). September 20-22. Noida, Uttar Pradesh, India. Organized by Amity University and technically co-sponsored by IEEE UP. PC Member, Speaker and Session Chair. <http://www.amity.edu/aiit/icrito2017/>

Latin America High-Performance Computing Conference. September 20-22. Buenos Aires, Argentina. Organized by the University of Buenos Aires and the University of Ort. PC Member. <http://carla2017.ccarla.org>

Agroinformatics Argentinean Congress. Computer Science Argentine Society & National Technological University. September 4-8. Córdoba, Argentina. PC Member. <http://www.clei2017-46jaiio.sadio.org.ar/CAI>

Industrial Computer Science Symposium. Computer Science Argentine Society & National Technological University. September 4-8. Córdoba, Argentina. PC Member. <http://www.clei2017-46jaiio.sadio.org.ar/SII>

International Conference on Intelligent Computing. August 7-10. Liverpool, UK. Organized by Liverpool John Moores University, Tongji University & National Science Foundation of China. PC Member. <http://ic-ic.tongji.edu.cn/>

The 11th IEEE International Conference on Big Data Science and Engineering. August 1-4. Sydney, Australia. Organized by the University of Technology Sydney. PC Member. <http://www.stprp-activity.com/BigDataSE2017>

The Second International Conference on Data Mining and Big Data (DMBD). July 27 - August 1. Fukuoka, Japan. Peking University and Kyushu University. Sub-reviewer. <http://dmbd2017.ic-si.org>

First International Conference on Smart Technologies in Computer and Communication. March 27-29. Jaipur, India. Organized by Amity University Rajasthan. PC Member.

Teaching Experience

[May-2017; till now] **Data Science – Visiting Professor at National Technological University, Córdoba, Argentina**

The graduate course introduces students in the exploratory data analysis, outlier analysis, linear regression, classification, clustering, temporal series, association rules, and text mining. It is taught for the Information System Master program jointly with the doctoral program.

Key responsibilities

- Coordinate and Monitor the educative program performing,
- Articulate the conceptualization with the practical application on computers,
- Supervise the application of the different techniques over each real data set proposed by each student team

Achievements

- Managed a volume of students up to 50 per course successfully,
- I have developed a set of R tutorials introducing through examples from the basics of R software to the application of different techniques,

- The students' assessments are documented using the Springer style (i.e. LNCS) which represents useful feedback for future students that want to take the same course.

(*) This course was replicated as a Visiting Professor at the National Technological University – Tucumán -Argentina- [September 2017; November 2017] for the Information System Master;

[Apr-2017; May-2017] Organization Models and Information System – Visiting Professor at National Technological University, Villa María, Argentina

The graduate course introduces students in the Organization Management and Information Technology, Strategy and Organizational Design, Business Process Reengineering, and Decision Support Systems. It is taught for the Information System Master program jointly with the doctoral program.

Key responsibilities

- Coordinate and Monitor the educative program performing,
- Supervise the application of the different measurement techniques,
- Articulate the integration between business process, data collecting strategies, scorecard, and decision making.

Achievements

- Managed a volume of students up to 50 per course successfully,
- The students' assessments were carried forward through real application cases on the local industry,
- I was successful integrating from the business process modeling to the real-time decision making based on the local industry for consolidating concepts

[Jun-2016 – Mar-2017] Computer Science Applied to the University Management – Adjunct Professor at the Chancellor Office of the National University of La Pampa, Argentina

The undergraduate course introduces students to computer networks' principles, data organization, Big Data, and the impact of the measurement and evaluation throughout the organizational management. It is taught for the University Management Technical Career.

Key responsibilities

- Coordinate and Monitor the educative program performing,
- Supervise one Professor that complete the team
- Articulate the conceptualization with the practical application on computers

Achievements

- Managed a volume of students up to 50 per course mixing the traditional and virtual environment in the teaching,
- Incorporated a progressive and integral knowledge test balancing different alternatives (Presentations, Problem-Solving on the computer, etc.)
- I was successful in integrating the QlikTech Academic Program through QlikSense software for guiding the associative analysis' applications.

[May-2015; Nov-2017] Business Intelligence and Data Mining - Visiting Professor at National Technological University, Córdoba, Argentina

The graduate course updates students in topics related to multidimensional and associative modeling, data mining fundamentals, Exploratory data analysis, and data mining techniques. It is taught for the Information System Master program jointly with the doctoral program.

Key responsibilities

- Coordinate and Monitor the educative program performing,
- Compare the points of views related to the applicability of different data models
- Articulate the conceptualization with the practical application in the industry

Achievements

- Managed a volume of students up to 30 per course successfully,
- I have managed that the students' assessment is made through a real application of different data mining techniques. Applications or research topics were documented under the Springer style (i.e. LNCS).
- I have articulated the concepts with academic programs from IBM and Oracle through software such as Oracle Data Miner, SPSS Statistics, and/or SPSS Modeler.

(*) This course was replicated as a Visiting Professor at the National Technological University – Villa María -Argentina- [Sep-2015; Oct-2015] for the Information System Master; National Technological University – Entre Ríos - Argentina [Mar-2016; Apr-2016] for the Computer Science Master; and the National University of Asunción – Paraguay for the Information Technology and Communication Master [Oct-2013; Nov-2013].

[Mar-2013; Dec-2013] Mathematic 2: “Mathematical Analysis” - Adjunct Professor at Agricultural School of the National University of La Pampa, La Pampa, Argentina

The undergraduate course introduces students in topics related to special functions, graphical representations, Successions Arithmetic and geometric progressions, Limits, Continuity of a function, Derivate, Integrals, and associated methods. It is taught for the Administration Bachelor oriented to Agricultural Business.

Key responsibilities

- Coordinate and Monitor the educative program performing, jointly with the supervision of 2 professors in the educational team,
- Introduce the basic concepts of the mathematical analysis to recent students (first year of the career),
- Articulate the conceptualization with the practical application in the agricultural industry

Achievements

- Managed a volume of students up to 30 per course successfully,
- I have managed that students use GeoGebra to verify results analytically and visually.

- I was successful in the concepts' integration through local industry application cases.

[Mar-2013; Dec-2013] Mathematic 1: “Algebra” - Adjunct Professor at Agricultural School of the National Technological University of La Pampa, La Pampa, Argentina

The undergraduate course introduces students in topics related to Number Sets, algebraic expressions, introduction to the function concept, combinatory analysis, matrixes, linear equation systems, and a brief introduction to linear programming through graphical methods. It is taught for the Administration Bachelor oriented to Agricultural Business.

Key responsibilities

- Coordinate and Monitor the educative program performing, jointly with the supervision of 2 professors in the educational team,
- Introduce the basic concepts of the algebra to recent students (first year of the career),
- Articulate the conceptualization with the practical application in the agricultural industry

Achievements

- Managed a volume of students up to 30 per course successfully,
- I was successful in the realization of a specific and adapted text considering the student profile in 133 pages of length,
- I was successful in the concepts' integration through local industry application cases.

[Jul-2009; Oct-2013] Advanced Databases - Visiting Professor at National Technological University, Córdoba, Argentina

The graduate course updates students in topics related to data quality, Object-oriented databases, Object-Relational databases, temporal and spatial databases, distributed databases, data streaming, and data warehousing. It is taught for the Information System Master program.

Key responsibilities

- Coordinate and Monitor the educative program performing,
- Compare the points of views related to the applicability of different data models
- Articulate the conceptualization with the practical application in the industry

Achievements

- Managed a volume of students up to 30 per course successfully,
- I have managed that the students' assessment is made through a real application integrating contents. Applications or research topics were documented under the Springer style (i.e. LNCS).
- I have articulated the concepts with academic programs from IBM, Oracle and, SPSS through software such as IBM DB2, Oracle, and SPSS Statistics.

[Mar-2007; Dec-2017] System Design and Analysis 1 - Adjunct Professor at Engineering School of the National University of La Pampa, Argentina.

The undergraduate course introduces students to software engineering, system life cycles, requirement engineering and the first steps related to system modeling. The processes' vision based on Business Process Notation and Modeling was taught. It is taught for the Information System Engineering career.

Key responsibilities

- Coordinate and Monitor the educative program performing,
- Supervise 2 Professors that integrate the team
- Research in the context of the GIDIS_Web research group

Achievements

- I was able to articulate traditional lifecycles with agile strategies showing the perspectives of each one to students,
- Mentoring in the initial application based on students' team to real applications. It fostered the integration with the society and local context, while it was useful for consolidating the knowledge,
- I was able to teach one integral course to graduates about data science, establishing the relationship among data warehousing, data quality, measurement, evaluation, and data streaming,

[Aug-2004; Current] Information Technology II - Full-Professor at the Economy School of the National University of La Pampa, Argentina

The undergraduate course introduces students to databases, data modeling, and data visualization associated with decision-support systems for structured and unstructured data. It is taught for the Administration Bachelor and Public Accountant careers.

Key responsibilities

- Coordinate and Monitor the educative program performing,
- Supervise 15 Professors that integrate the team
- Coordinate the activities related to the Data Science Research Group

Achievements

- Incorporated topics such as data science and associative analysis at the undergraduate level supported by academic programs from QlikTech and Tableau Software.
- Consolidated the Data Science Research Group, developing an international contact network (Involving countries such as India, Colombia, South Korea, Japan, Australia, among others). Over 60 publications. *Supervised 5 BA theses, 4 MA theses, and 2 Ph.D. dissertations*
- Managed around 150 students per semester distributed in five commissions, carrying forward the virtual and traditional teaching simultaneously.

[2002 – 2004] Data Management - Assistant Professor at National Technological University, Córdoba, Argentina

The undergraduate course introduces students to the principles of data organization, relational model, data normalization, and the structured query language. It is taught for the Information System Engineering career.

Key responsibilities

- Help in the practical commissions to teach data normalization and SQL through the cases' solving and by examples,
- Help students in their first steps on SQL based on Oracle SQL
- Help during the teaching in classroom and assessment process

Achievements

- Helped to articulate the SQL teaching in both Oracle and Postgres SQL.
- Assisted in the incorporation of the analysis services from Microsoft SQL Server as the first steps for the analytical profile of the course,
- Helped to manage around 150 students per semester distributed collaboratively with the Adjoint Professor.

Research Experience

Full-Time Researcher

[2018; 2021] **Role: Project Director.** “**Real-Time Decision Making on Measurement and Evaluation Projects**”. Economy and Law School, National University of La Pampa (Argentina).

[2016; 2019] **Role: Project Director.** “**Interoperability in the Measurement Process with Heterogeneous Data Sources**”. Economy and Law School, National University of La Pampa (Argentina).

[2015; 2018] **Role: Project Co-Director.** “**Distributed Organizational Memory based on Ontologies with Data Stream Processing for Knowledge Capturing**”. Director: Martín, María de los Ángeles. Engineering School, National University of La Pampa (Argentina).

[2015-2017] **Role: Coordinator.** “**Technical Cooperation Agreement between the Engineering School (National University of La Pampa) and National Institute of Agricultural Technology**”. Engineering School, National University of La Pampa (Argentina).

[2013; 2016] **Role: Project Co-Director.** “**An Integrated Strategy of Distributed Organizational Memory based on Ontologies with Data Stream Processing**”. Director: Martín, María de los Ángeles. Engineering School, National University of La Pampa (Argentina).

[2012; 2015] **Role: Project Director.** “**Toward the Formalization of Processes in the Integrated Strategy of data stream processing based on measurement metadata**”. Economy and Law School, National University of La Pampa (Argentina).

Associate Researcher

“Measurement and Evaluation Frameworks based on Ontologies applied to the Software Industrial Process” [2010; 2014]. Director: Olsina, Luis. Engineering School, National University of La Pampa (Argentina).

“A Context-Aware Integrated Approach for Assessment and Recommending, based on Organizational Memory for Software and Web Projects” [2009; 2013]. Director: Olsina, Luis. Engineering School, National University of La Pampa (Argentina).

Role: Project Director. “Recommendations for Software Providing in Public and Private Organisms of the Province of La Pampa” [2005; 2007]. Economy and Law School, National University of La Pampa (Argentina).

“Models and Technologies for Supporting Measurement and Evaluation Projects in Assurance” [2005; 2008]. Director: Director: Olsina, Luis. Engineering School, National University of La Pampa (Argentina).

Additional Income derived from Services with High Added Value

[Feb-2017; Dec-2017] **Customer: EDASA S.A. Income: USD 23.170.**

About EDASA S.A.

It is a multinational company responsible for bottling and distributing of different Coke's products under licensing in Argentina, Paraguay, Brazil, and Chile. Website: www.koandina.com.ar

Key responsibilities

- Teaching of the data science techniques and their potential applications using R Software and Apache Spark
- Guiding the Exploratory Data Analysis on real data from the company
- Supervising the application of data science techniques on the company's operations

Achievements

- A fully operative area using R software for applying different techniques.
- Successful applications on rebuy strategies and distribution were reached.
- It was possible to integrate heterogeneous profiles into the team (from Industrial Engineers to Economists).

[Jan-2014; Dec-2015] **Customer: Autarchic Institute of Housing Income: USD 467.085.**

About Autarchic Institute of Housing

It is a decentralized official organism responsible for planning and implementing the housing policies of La Pampa's Government. Website: ipav.lapampa.gob.ar

Key responsibilities

- Coordinating the Business Process Reengineering contemplating the whole information system

- Guiding the modelling and automatization of business processes
- Responsible for the data migration and start-up of the new information system

Achievements

- The Business Process Reengineering was reached.
- The automatization of the business processes was successfully based on open-source software (e.g. Postgresql, Java, PrimeFaces, etc.).
- The new data center was fully migrated and operative jointly with the start-up of the new information system.

Thesis Assessment Experience

Ph.D.

[2021] Ericson, Jamie “**Cloud Computing: Factors Influencing Adoption in the Australian Government Sector**”. Doctor of Information Sciences at the University of Canberra. Student #3010293. Canberra (Australia).

[2021] Santosh Kumar Barnwal “**A Framework for Learning Assessment through Multimodal Analysis of Reading Behaviour and Language Comprehension**”. Grade: Doctor of Philosophy. Roll No. RS128. Indian Institute of Information Technology – Allahabad, Uttar Pradesh (India).

[2021] Gunjan Bansal “**Analytical Study for New Product Management & Economic Impact of Re-manufacturing**”. Ph.D. File No. A11346/1. University of Delhi, Delhi (India).

[2020] Srivastava, Vivek “**Adaptiva Traffic Management Based on Software Defined Networks**”. Reference number: Exam/JPP/Ph.D/20-21/810. Ph.D. degree at the Birla Institute of Technology, Mesra (India).

[2020] Townsend, Thomas “**Analysing the Gap Between Information Technology Infrastructure and Data Center Design, and How They Impact on Service Availability**”. Doctor of Philosophy at the University of Canberra. Canberra (Australia).

[2017] Sonzini, María Soledad “**Spatial-Temporal Model for Representing Information of Products**”. Ph.D. in Engineering mention in Information System Engineering. National Technological University, Delegation: Santa Fe (Argentina).

[2014] Toledo, Carlos “**Platform for the Business Knowledge Management**”. Ph.D. in Engineering mention in Information System Engineering. National Technological University, Delegation: Santa Fe (Argentina).

[2013] Bogado, Verónica Soledad “**A Model for Supporting the Software Architecture Analysis by Discrete-Event Simulation**”. Ph.D. in Engineering mention in Information System Engineering. National Technological University, Delegation: Santa Fe (Argentina).

Master

[2017] Corso, Cynthia “**Characterization of Informatic Incidents using data mining techniques under a multivariate approaching**”. Information System Engineering Master. National Technological University, Delegation: Córdoba (Argentina).

[2014] Gonzalez, Claudio Javier “**Selecting of Methods and Software Development Process Definition Tools for Automatic Generation of Training**”. Information System Engineering Master. National Technological University, Delegation: Córdoba (Argentina).

Specialty

[2014] Silclir, Mauricio “**Management of Software Development Processes with ALM tools**”. Specialty in Information System Engineering. National Technological University, Delegation: Córdoba (Argentina).

[2014] Quinteros, Sergio (2014) “**Agile Testing with Kanban Methodologies**”. Specialty in Information System Engineering. National Technological University, Delegation: Córdoba (Argentina).

Ph.D. / Master / Specialization – Student Supervising

Ph.D.

[2018; till now] Sánchez Reynoso, María Laura. Role: Thesis Plan Director. Ph.D. mention in Information System Engineering; Topic: **Recommending Strategy based on Similarity in Big Repositories of Measurement and Evaluation**. National Technological University, Córdoba (Argentina).

[2017; till now] Fritelli, Valerio. Role: Thesis Plan Director. Ph.D. mention in Information System Engineering; Topic: **Strategies for Big Data Visualization by Semantic Graphs**. National Technological University, Córdoba (Argentina).

Master

[2019; till now] Jaymez, Jeremias. Role: Thesis Plan Director; Information System Engineering Master. Topic: “**A Predictive Model for Covering Job Vacancies in a Software Development Business in Córdoba City**”. National Technological University, Córdoba (Argentina).

[2018; till now] Muñoz, Roberto. Role: Thesis Plan Director; Information System Engineering Master. Topic: “**Integral Modeling of an Information System for the management of the Information System Engineering career**”. National Technological University, Córdoba (Argentina).

[2014; 2016] Ostoich, Mariana. Role: Thesis Plan Director; Enterprise Management Master. Topic: “**Business Process Monitoring Strategy of the Administrative Prosecutor Office of La Pampa**”. Economy and Law School, National University of La Pampa (Argentina).

[2012; 2016] Ávalos Serrano, Nathalí. Role: Thesis Plan Director; Master in Data Mining and Knowledge Discovery. Topic: “**An Integrated Strategy based on Processes, Requirements, Measurement, and Evaluation for data warehousing modeling**”. Exact and Natural Science School, University of Buenos Aires (Argentina)

[2011; 2014] Sánchez Reynoso, María Laura. Role: Thesis Plan Director. Quality Engineering Master. Topic: “**Social Security Processes' Monitoring Strategy based on a measurement framework for preventive analysis in decision-making**”. National Technological University, Córdoba (Argentina).

Patent / Intellectual Property Records

[2011] Role: Author. “**Admincol**”. Aim: An ERP Software specifically designed for pharmaceutical activity in La Pampa. Owner: Pharmaceutical Council of La Pampa (Argentina). #Intellectual Property Register: 948241 (Argentina's Record).

[2011] Role: Author. “**Web Admincol**”. Aim: A User-friendly web interface for managing the Admincol ERP System from the user viewpoint. Owner: Pharmaceutical Council of La Pampa (Argentina). #Intellectual Property Register: 948244 (Argentina's Record).

[2011] Role: Author. “**Web Spider**”. Aim: Responsible for managing the security around the ERP Admincol Software, be it accessed from the Internet or local networks. Owner: Pharmaceutical Council of La Pampa (Argentina). #Intellectual Property Register: 948245 (Argentina's Record).

[2008] Role: Author. “**Online Validator of Medicines**”. Aim: It defines and applies in real-time the policies related to the kind of financing in which health insurance wants to give to their customers. Owner: Pharmaceutical Council of La Pampa (Argentina). #Intellectual Property Register: 709158 (Argentina's Record).

[2008] Role: Author. “**Agent**”. Aim: It integrates the pharmaceutical management software with the online validator of medicines. Also, it allows managing vaccination campaigns taking into account the validation of each vaccine jointly with the related logistics aspects. Owner: Pharmaceutical Council of La Pampa (Argentina). #Intellectual Property Register: 709156 (Argentina's Record).

[2008] Role: Author. “**GOSP**”. Aim: It defines a user-friendly interface for allowing health insurance directly to define the set of parameters or constraints to be applied to their customers. Owner: Pharmaceutical Council of La Pampa (Argentina). #Intellectual Property Register: 709162 (Argentina's Record).

[2008] Role: Author. “**KPI Control**”. Aim: It shows to Health Insurances a real-time command board related to the medicine consumption of their customers. Owner: Pharmaceutical Council of La Pampa (Argentina). #Intellectual Property Register: 709159 (Argentina's Record).

Languages

English. Cambridge Assessment. Certified in Advanced English -CAE- (Reference Number: 19BAR6025096). Reached Level: B2. Overall Score: 167. Reading: 163, Use of English: 156, Writing: 183, Listening: 156, and Speaking: 178. November 2019.

Spanish (Mother Tongue)

Memberships

[2019; till now] **IEEE Senior Member.** #96027649

[2017; till now] **ACM Professional Member** #5767040.

[2017; 2021] **Computer Science Argentinean Society.** Professional Member #3007.

Editorial Activities

[2021; till now] **Reviewer. Expert Systems.** Wiley. ISSN 0266-4720.
<https://onlinelibrary.wiley.com/journal/14680394>

[2021; till now] **Reviewer. International Journal of System Assurance Engineering and Management.** Springer. ISSN 0976-4348.
<https://www.springer.com/journal/13198>

[2020; till now] **Guest Editor of Special Issue “Collaborative Aspects of Industry 4.0 in Data Informatics”.** International Journal of Collaborative Engineering (IJCE). Inderscience Publishers. ISSN 1745-0047(e) / 1745-0039.
<https://www.inderscience.com/jhome.php?jcode=ijce>

[2020; till now] **Guest Editor of Special Issue “Multimedia Medical Data-driven Decision Making [1214]”.** Multimedia Tools and Applications. Springer. ISSN 1380-7501 / 1573-7721. <https://www.springer.com/journal/11042>

[2020; till now] **Reviewer. Neural Computing and Applications.** Springer. ISSN 0941-0643. <https://www.springer.com/journal/521>

[2020; till now] **Reviewer. Revista Ibérica de Sistemas e Tecnologias de Informação.** Springer. ISSN 1646-9895. <http://www.risti.xyz/index.php?lang=pt>

[2020; till now] **Reviewer. Journal of Ambient Intelligence and Humanized Computing.** Springer. ISSN 1868-5137. <https://www.springer.com/journal/12652>

[2020; till now] **Reviewer. Technological Forecasting & Social Change.** Elsevier. ISSN 0040-1625. <https://www.journals.elsevier.com/technological-forecasting-and-social-change>

[2020; till now] **Reviewer. Revista Facultad de Ingeniería.** Universidad de Antioquia. ISSN 0120-6230. <https://revistas.udea.edu.co/index.php/ingenieria/issue/archive>

[2020; till now] **Reviewer. International Journal of Operational Research - IJOR.** Inderscience. ISSN 1745-7645. <https://www.inderscience.com/jhome.php?jcode=ijor>

[2020; till now] **Reviewer. International Journal of Management Practice.** Inderscience. ISSN 1741-8143. <https://www.inderscience.com/jhome.php?jcode=ijmp>

[2020; till now] **Reviewer. Transactions on Emerging Telecommunications Technologies.** Wiley. ISSN 2161-3915. <https://onlinelibrary.wiley.com/journal/21613915>

[2020; till now] **Reviewer. IEEE Internet of Things Journal.** ISSN 2327-4662. <https://iee-iotj.org>

[2020; till now] **Reviewer. Evolutionary Intelligence.** ISSN 1864-5909. <https://www.springer.com/journal/12065>

[2020; till now] **Reviewer. Journal of Big Data.** ISSN 2167-647X. <https://home.liebertpub.com/publications/big-data/611/overview>

[2020; till now] **Reviewer. International Journal of Computing and Digital Systems.** ISSN 2210-142X. <https://journal.uob.edu.bh/handle/123456789/12>

[2020; till now] **Guest Editor of Special Issue “Internet of Things for Smart Community Solutions”.** **Sensors.** An Open Access Journal by MDPI. ISSN 1424-8220. https://www.mdpi.com/journal/sensors/special-issues/IoT_smart_solution

[2020; till now] **Reviewer. CLEI Electronic Journal.** An Open Access Journal by CLEI. ISSN 0717-5000. DOI: 10.19153/cleiej. <http://www.clei.org/cleiej/index.php/cleiej/about>

[2019; till now] **Reviewer. IEEE Latin America Transactions. USA.** ISSN 1548-0992. <https://www.inaoep.mx/~IEEElat/index.php/transactions>

[2019; till now] **Reviewer. Earth Science Informatics – Springer. Switzerland.** ISSN 1865-0473 e-ISSN 1865-0481. <https://link.springer.com/journal/12145>

[2018; till now] **Associate Editor. Science and Technology Journal.** Publishing House of the National Technological University. Argentina. ISSN 1666-693. <http://rtyc.utn.edu.ar/index.php/rtyc/about/editorialTeam>

[2018; till now] **Reviewer. Journal Sustainable Computing, Informatics and Systems.** USA. ISSN 2210-5379. <https://www.journals.elsevier.com/sustainable-computing-informatics-and-systems>

[2018; till now] **Reviewer. Journal of Universal Computer Science.** Austria. ISSN 0948-695X. <http://www.jucs.org>

[2017; till now] **Reviewer. International Journal of Integrated Engineering (IJIE).** Universiti Tun Hussein Onn Malaysia. Malaysia. ISSN 2229-838X. <http://penerbit.uthm.edu.my/ojs/index.php/ijie>

[2017; till now] **Reviewer. Advances in Science, Technology and Engineering Systems Journal.** USA. ISSN 2415-6698. <https://astesj.com>

[2017; till now] **Reviewer. Computer and Electrical Engineering.** USA. ISSN 0045-7906. <https://www.journals.elsevier.com/computers-and-electrical-engineering>

Participation in Committees

Institutional

[2018;2021] **Board Member - Professors' Cloister.** Economy and Law School at the National University of La Pampa (Argentina).

[2016; till now] **Academic Board Member. Ph.D.'s Academic Committee.** Ph.D. Mention in Information System Engineering. Administrative Act CS.2468/16; National Technological University, Delegation: Córdoba (Argentina)

[2016; 2021] **Board Member – Engineers. Professional Council of Engineers and Technicians of La Pampa,** Argentina. Created by Law #2879.

[2012; till now] **Academic Board Member; Master's Academic Committee;** Master's Information System Engineering; Administrative Act CS.87/12; National Technological University, Delegation: Córdoba (Argentina)

[2008; 2014] **Board Member - Professors' Cloister;** Main Council of the National University of La Pampa (Argentina)

National Programs as Jury

[2018] **Program: Projects of Social and Technological Development.** Aim: Progress Evaluation. Host: The National Scientific and Technical Research Council of Argentina's Government.

[2018; 2019] **Program: Evaluating the Scientific quality related to the formulation of the R+D Projects.** Aim: Evaluating the pertinence and consistency of research projects. Host: National Technological University. Buenos Aires, Argentina.

[2016] **Program: University Adding the Value.** Funds for Technological Linking Projects. Aim: Evaluating the pertinence and consistency of research projects. Host: National Direction of University Development and Volunteering, Secretary of University Policies, Argentina's Government.

[2015] **Program: Bec.ar – Master and Ph.D. Fellowships for studying abroad.** Aim: Selection Process in Computer Science Area. Host: Sub-secretary of Public Employment and Management, Argentina's Government.

[2015] **Program: Projects of Social and Technological Development.** Aim: Selection Process. Host: The National Scientific and Technical Research Council of Argentina's Government.

Public Contests as Jury

2019

Level: Full-Professor, Subject: Managerial Administration, Career: Information System Engineering. National Technological University, Córdoba, Argentina.

Level: Adjunct Professor, Subject: Managerial Administration, Career: Information System Engineering. National Technological University, Córdoba, Argentina.

Level: Adjunct Professor, Subject: System Design, Career: Information System Engineering. National Technological University, Córdoba, Argentina.

2018

Level: Full-Professor, Subject: Discrete Mathematics, Career: Information System Engineering. National Technological University, Córdoba, Argentina.

Level: Adjunct Professor, Subject: Discrete Mathematics, Career: Information System Engineering. National Technological University, Córdoba, Argentina.

Level: Full Professor, Subject: Organizations and Systems, Career: Information System Engineering. National Technological University, Córdoba, Argentina.

Level: Adjunct Professor, Subject: System Design, Career: Information System Engineering. National Technological University, Córdoba, Argentina.

2017

Level: Full-Professor, Subject: System Design, Career: Information System Engineering. National Technological University, Córdoba, Argentina.

2016

Level: Full Professor, Subject: Administration of Resources, Career: Information System Engineering. National Technological University, Córdoba, Argentina.

Level: Full Professor, Subject: Probabilities and Statistics, Career: Information System Engineering. National Technological University, Córdoba, Argentina.

Level: Adjunct Professor, Subject: System Design, Career: Information System Engineering. National Technological University, San Francisco, Argentina.

Level: Associate Professor, Subject: Language Syntax and Semantic, Career: Information System Engineering. National Technological University, San Francisco, Argentina.

Level: Adjunct Professor, Subject: Management Systems, Career: Information System Engineering. National Technological University, San Francisco, Argentina.

Level: Adjunct Professor, Subject: System Analysis, Career: Information System Engineering. National Technological University, San Francisco, Argentina.

Level: Associate Professor, Subject: Managerial Administration, Career: Information System Engineering. National Technological University, San Francisco, Argentina.

2015

Level: Assistant Professor, Subject: Information Technology and Automated Management, Career: Public Accountant. National University of Rio IV, Rio IIV (Córdoba), Argentina.

Level: Associate Professor, Subject: Information Technology and Automated Management, Career: Public Accountant. National University of Rio IV, Rio IV (Córdoba), Argentina.

Level: Adjunct Professor, Subject: System Analysis, Career: Information System Engineering. National Technological University, Córdoba, Argentina.

Level: Assistant Professor, Subject: Information Technology I, Career: Public Accountant. Economy School at National University of La Pampa, Argentina.

Level: Adjunct Professor, Subject: Information Technology II, Career: Public Accountant. Economy School at National University of La Pampa, Argentina.

2013

Level: Assistant Professor, Subject: Introduction to Computing, Career: Computer Science Professorship. Exact and Natural Sciences School at National University of La Pampa, Argentina.

Level: Assistant Professor, Subject: Algorithms and Data Structures, Career: Information System Engineering. Engineering School at National University of La Pampa, Argentina.

2011

Level: Assistant Professor, Subject: Introduction to Computing, Career: Computer Science Professorship. Exact and Natural Sciences School at National University of La Pampa, Argentina.

Level: Full-Professor, Subject: Object-Oriented Programming, Career: Information System Engineering. Engineering School at National University of La Pampa, Argentina.

Level: Associate Professor, Subject: Introduction to Computing, Career: Information System Engineering. Engineering School at National University of La Pampa, Argentina.

2007

Level: Adjunct Professor, Subject: Information Technology and Automated Management, Career: Public Accountant. National University of Rio IV, Rio IV (Córdoba), Argentina.

Level: Assistant Professor, Subject: Information Technology and Automated Management, Career: Public Accountant. National University of Rio IV, Rio IV (Córdoba), Argentina.

Level: Assistant Professor, Subject: Information Technology II, Career: Public Accountant. Economy School at National University of La Pampa, Argentina.

Level: Assistant Professor, Subject: Information Technology I, Career: Public Accountant. Economy School at National University of La Pampa, Argentina.

2006

Level: Assistant Professor, Subject: Object-Oriented Programming, Career: Information System Engineering. Engineering School at National University of La Pampa, Argentina.

Level: Assistant Professor, Subject: Databases, Career: Information System Engineering. Engineering School at National University of La Pampa, Argentina.

2005

Level: Assistant Professor, Subject: Information Technology and Automated Management, Career: Public Accountant. National University of Rio IV, Rio IV (Córdoba), Argentina.