

Programa “International Conference of the Chilean Computer Science Society” (SCCC)

Jornadas Chilenas de Computación 2024

28 de octubre	
9:00 - 10:00	Registro de asistentes
10:00 - 11:30	<p>Sesión 1 - SCCC conference: Auditorio DCI (<i>chair: Oriel Herrera - Jaime Díaz</i>)</p> <p>77 - Victor Flores, Raúl Luengo, Carlos Hernández Ulloa and Billy Peralta. Toward Automatic Vehicle Classification for Toll Booths on Chilean Interurban Highways</p> <p>93 - Daniel Muller, Billy Peralta and Orietta Nicolis. Graph-Based Neural Networks for Public Transport Speed Prediction in Santiago, Chile</p> <p>57 - Pablo Rain and Ania Cravero. Proposed metadata management model for Data Lakehouse</p> <p>87 - Oscar Aguayo, Samuel Sepúlveda, Raúl Mazo, Sebastián Calfunao and Sebastián Candia. Collaborative management of Software Product Lines: Lessons learned from the development of real-time variability models</p>
11:30 - 12:00	Coffee Break
12:00 - 13:00	<p>Sesión 2 - SCCC conference: Auditorio DCI (<i>chair: Oriel Herrera - Carlos Cares</i>)</p> <p>26 - Gardyn Olivera-Ruiz, Jak Solsol-Isminio and Wilmer Bermúdez-Pino. Next-Generation Firewall Open-source and LAN performance</p> <p>27 - Manuel Villalobos-Cid, Javier Pérez-Cáceres, Jose Lillo-Vidal and Igor Tona Peres. Impact of the DRG system on technical efficiency: a case study of Chilean high-complexity hospitals</p> <p>33 - Alejandro Mellado Gatica, Julio Rojas Mora and Mario Villanueva Alveal. High availability in private cloud: approaches and possibilities</p>
13:00 - 14:30	Almuerzo
14:30 - 16:30	<p>Sesión 3 - SCCC conference: Auditorio DCI (<i>chair: Oriel Herrera - Angélica Urrutia</i>)</p> <p>45 - Ignacio Lincolao-Venegas and Julio Rojas-Mora. Exploration Pitfalls in a CUDA. Parallelized Simulated Annealing Algorithm to Solve the Centralized Student-School Assignment Problem</p> <p>46 - Rodrigo Torres-Avilés, Gilberto Gutiérrez, Martita Muñoz and Mónica Caniupán. Skyline Query over k2-tree Compact Data Structure</p> <p>49 - Lilianny Marrero, Pablo Cruz, Marcello Visconti and Mauricio Solar. Technology Adoption Readiness Assessment in an Agricultural Setting: A Case Study</p> <p>132 - Romina Torres, Antonia Severin and Claudio Canales. Predicting the next step of a multistep network attacks during capture the flag events using LSTM</p>

	18 - Carlos Manzano, Gastón Márquez and Hernan Astudillo. Quality Attributes for Zero Trust Architecture-Based Systems
16:30 - 17:00	Coffee Break
17:00 - 18:00	Sesión 4 - SCCC conference: Auditorio DCI (<i>chair: Oriel Herrera - Jaime Díaz</i>)
	51 - Nicolas Torres, Ignacio Araya, Matías Ayala, Sebastián Jara and Catalina Ulloa. Injecting Bias through Prompts: Analyzing the Influence of Language on LLMs
	55 - Esteban Toledo-Mercado and Ismael Soto. Adaptive digital filter MRA based on Wavelet, unsupervised clustering and deep learning for transmission spectroscopy
	8 - Ali Eslami. Integrating Function and Topology for Node Criticality Assessment in Interdependent Networks
18:00 - 19:00	Inauguración Jornadas Chilenas de la Computación: Guest Speaker: Ricardo Perez del Castillo - “Software Cuántico en Acción: Retos y Oportunidades en la Ingeniería del Software de la Nueva Era” / Auditorio Los Avellanos
19:00 - 20:00	Cocktail de Bienvenida

29 de octubre	
9:00 - 10:30	Sesión 5 - SCCC conference: Auditorio DCI (<i>chair: Angélica Urrutia - Oscar Ancán</i>)
	58 - Julio Barzola-Monteses, Franklin Parrales-Bravo, Vicente Macas-Espinosa, Gabriel Borquez-Vargas and Mayken Espinoza-Andaluz. Energy Consumption of a Building Using the XGBoost Algorithm: A Forecasting Study
	5 - Julio Barzola-Monteses, Rosangela Caicedo-Quiroz, Franklin Parrales Bravo, Cristhian Medina-Suarez and Wendy Yanez-Pazmino. Convolutional Neural Networks Applied to the Diagnosis of Cardiovascular Disease
	62 - Mayken Espinoza-Andaluz, Joseph Avila, Julio Barzola-Monteses and Martin Andersson. From 2D to 3D: Computational Methods for Analyzing Porous Electrode Structures in Fuel Cells
	65 - Alejandro Candia and Cristian Cappo. TinyICS: An Industrial Control System Simulator Based on NS-3
10:30 - 11:00	Coffee Break
11:00 - 12:00	Sesión 6 - SCCC conference: Auditorio DCI (<i>chair Angélica Urrutia - Oscar Ancán</i>)
	70 - Francisco Vasquez-Iglesias, Amelia Pizarro, Paulo Gonzalez, David Zabala-Blanco, Juan Fuentes-Concha and Roberto Ahumada-Garcia. Hyperparameter Optimization Of Regularized-Extreme Learning Machine Using a Modified Opposition-Based Learning Artificial Bee Colony
	61- Pamela Landero-Sepúlveda, Sofia Castro-Castro and Mario Inostroza-Ponta. Evaluating alternate feature sets as a local search strategy for gene expression feature selection problem
	79 - Adrian Fernández Canino, Fernando Alonso Vicente Vargas Castillo and Roberto Muñoz. Visualizando el Mimetismo en Equipos Ágiles: Un Enfoque Multimodal

12:00 - 13:00	Invitada: Luciana Bolan Frigo - “Reduciendo la brecha de género en Informática: Perspectivas desde la experiencia, los proyectos y la investigación” / Auditorio DCI
13:00 - 13:45	Invitado: Luis Martí - “INRIA” / Auditorio DCI
13:45 - 15:00	Almuerzo
15:00 - 16:30	Sesión 7 - SCCC conference: Auditorio DCI (chair: Angélica Urrutia -Oscar Ancán)
	80 - Nicolas Henríquez, Claudio Meneses, David Coo and Ranjit Das. A Comparative Analysis of Time Series Data Augmentation Methods in the Identification of Diabetic Neuropathies Based on Deep Learning Algorithms
	9 - José Ramírez, David Zabala-Blanco, Roberto Ahumada-García, Marco Flores-Calero, Pablo Palacios-Játiva and Ronald V. Saire-Yujra. Diamond Prices Estimation with ELM-Based Regressors
	94 - Raquel Pezoa, Luis Salinas, Claudio Torres, Felipe Ortíz, Michel Curé and Ignacio Araya. Uncertainty estimation in classification of massive stars spectra using Conformal predictions
	100 - Diego Miranda, Dayana Palma, René Noel, Roberto Munoz, Adrian Fernández and Cristian Cechinel. Enhancing Agile Project Management Education with AI: ChatGPT-4's Role in Evaluating Student Contributions
16:30 - 17:00	Coffee Break
20:00 - 22:00	Cena

30 de octubre	
9:00 - 10:30	Sesión 8 - SCCC conference: Auditorio DCI (chair: Carlos Cares - Mónica Caniupán)
	103 - Fernando Antonio Montoya Cáceres, Daniela Alejandra Díaz Bianchini, Esteban Gonzalo Berrrios Peña and Hernan Astudillo. Causal Learning: Monitoring Business Processes Based on Causal Structures
	109 - Antonny Corcino and Marks Calderón Better together than separate: Prediagnosis of thyroid nodules through ultrasound imaging using CNN, ViT and hybrid models
	110 - Estrella D. Velasquez, Maribel E. Coaguila and Honorio Apaza. Implementation and Evaluation of Recurrent Neural Network Models for an Intelligent University Admission Chatbot
	113 - John Kern, Claudio Urrea and Oscar Loyola. Implementation and Validation of a Legless Robot Controlled by Van der Pol Pattern Generators
10:30 - 11:00	Coffee Break
11:00 - 12:00	Sesión 9 - SCCC conference: Auditorio DCI (chair: Carlos Cares - Mónica Caniupán)
	116 - Felipe Tirado, Alvaro Wong, Dolores Rexachs and Emilio Luque. Characterization model for irregular MPI applications based on PAS2P.
	122 - Roberto Ahumada-García, Ian Morales Adasme, David Zabala-Blanco, Xaviera A. López-Cortés, Marco Flores-Calero and Ismael Soto. A Review on Predicting Bee Honey Production Using Machine Learning
	127 - Eduardo Puraivan, Pablo Ormeño, Connie Cofré-Morales and Steffanie Kloss. Fake news classification:

	a linguistic feature selection approach to handle imbalanced data in Spanish
12:00 - 13:30	Invitado: Demián Arancibia - “Observar, una alternativa para enfrentar el desastre” / Auditorio DCI
13:30 - 15:00	Almuerzo
14:30 - 16:30	Sesión 10 - SCCC conference: Auditorio DCI (chair: Felipe Tirado ftirado@ucm.cl)
	41 - Salvador A. Méndez and Gonzalo A. Ruz. Social consensus modeling using threshold Boolean networks
	50 - Hans Schaa, José del Solar and Nicolas A. Barriga. Predicting Solvability and Difficulty of Sokoban Puzzles
	128 - Juan Bekios-Calfa, Eduardo Manzano-Munizaga, Macarena Alvarez-Rojas, Jessica Araya-Vidal, Valentina Rojas-Castillo and Felipe Mayo-Mena. Risk Prediction of Hazardous Materials Emergencies in Industrial Areas Using Machine Learning and Expert Knowledge
16:00 - 16:30	Coffee Break
16:00 - 17:00	Agradecimientos