

**XIV International Conference  
on Computing and  
Informatics in North of Chile  
(INFONOR-CHILE 2023)**



**Report of Contributions**

Contribution ID: 1

Type: **not specified**

## Welcome Local Government

*Wednesday, September 6, 2023 11:10 AM (10 minutes)*

**Presenter:** Mr DÍAZ, Ricardo (Antofagasta Government)

**Session Classification:** Inauguration Ceremony

Contribution ID: 6

Type: **not specified**

# Opening Keynote: Immersive Analytics: The Role of Immersive Spaces in Data Analytics

*Wednesday, September 6, 2023 11:40 AM (1 hour)*

## Abstract.

In this presentation, we examine the important role of immersive interactive display spaces in supporting data analysis and sensemaking activity. Why is the large physical space offered by immersive displays, both 2D and 3D, important to human sensemaking? How are large spaces fundamentally different from traditional displays when used for sensemaking? How do they help with analytical processes? What is the relationship between display space and computational AI and analytics? How should we design large interactive spaces to maximize human+AI sensemaking performance? We examine how physical space plays fundamental roles at several levels in sensemaking: embodied visualization, embodied interaction, embodied cognition, embodied computing with AI/ML algorithms, and embodied collaboration. Our synthesis of these roles will help illuminate a path forward for future research in immersive analytics and advancing human sensemaking capability in a data-intensive world.

**Author:** Dr NORTH, Chris (Professor, Department of Computer Science and Sanghani Center for AI and Data Analytics, Virginia Tech, USA)

**Presenter:** Dr NORTH, Chris (Professor, Department of Computer Science and Sanghani Center for AI and Data Analytics, Virginia Tech, USA)

**Session Classification:** Inauguration Ceremony

Contribution ID: 7

Type: **not specified**

## Welcome Corfo Regional Director

*Wednesday, September 6, 2023 11:20 AM (10 minutes)*

**Presenter:** Mrs GAJARDO CASTILLO, Melissa (Corfo Antofagasta)

**Session Classification:** Inauguration Ceremony

Contribution ID: 8

Type: **not specified**

## **Welcome Director Investigación y Análisis de la Producción Científica**

*Wednesday, September 6, 2023 11:00 AM (10 minutes)*

**Presenter:** Dr CALDERÓN CARVAJAL, Carlos (Universidad Católica del Norte)

**Session Classification:** Inauguration Ceremony

Contribution ID: 9

Type: **not specified**

## **Welcome General Chair INFONOR 2023**

*Wednesday, September 6, 2023 11:30 AM (10 minutes)*

**Presenter:** Dr MENESES, Claudio (UCN)

**Session Classification:** Inauguration Ceremony

Contribution ID: **10**

Type: **not specified**

## **Diseño de juegos para la enseñanza de ingeniería de software**

*Wednesday, September 6, 2023 4:00 PM (1 hour)*

**Presenter:** Dr GÓMEZ ÁLVAREZ, María Clara (Universidad de Medellín, Colombia)

**Session Classification:** Workshop on Software Process Improvement

Contribution ID: 11

Type: **not specified**

# Exploring the Application of Grounded Theory in Software Requirements Engineering

*Wednesday, September 6, 2023 3:00 PM (1 hour)*

**Presenter:** Mr DONOSO, Ítalo (UCN)

**Session Classification:** Workshop on Software Process Improvement



Contribution ID: 12

Type: **not specified**

## **Design of a strategy for the use of digital simulators in the teaching of physics to university students**

*Wednesday, September 6, 2023 3:00 PM (30 minutes)*

**Author:** Ms CAMACHO ORTIZ, Carmen Elizabeth (Universidad Politecnica de Sinaloa)

**Co-authors:** Ms SAUCEDO UGALDE, Ismaylia (Universidad Politecnica de Sinaloa); Ms MONTOYA ALDECOA, Jessica Vianey (Universidad Politecnica de Sinaloa); Mr MARTÍNEZ LAM, Jorge Emilio (Universidad Politecnica de Sinaloa)

**Presenters:** Ms CAMACHO ORTIZ, Carmen Elizabeth (Universidad Politecnica de Sinaloa); Ms SAUCEDO UGALDE, Ismaylia (Universidad Politecnica de Sinaloa); Ms MONTOYA ALDECOA, Jessica Vianey (Universidad Politecnica de Sinaloa); Mr MARTÍNEZ LAM, Jorge Emilio (Universidad Politecnica de Sinaloa)

**Session Classification:** Track #1

Contribution ID: 13

Type: **not specified**

## **Generation of realistic children's book images based on Diffusion Models**

*Wednesday, September 6, 2023 3:30 PM (30 minutes)*

**Author:** Ms MELÉNDEZ ACOSTA, Nayeli Joaquinita (Universidad del Istmo)

**Co-authors:** Mr BONILLA HUERTA, Edmundo (Universidad del Istmo); Mr RAMÍREZ CRUZ, José Federico (Tecnológico Nacional de México); Ms GONZÁLEZ MENESES, Yesenia Nohemí (Tecnológico Nacional de México)

**Presenters:** Mr BONILLA HUERTA, Edmundo (Universidad del Istmo); Mr RAMÍREZ CRUZ, José Federico (Tecnológico Nacional de México); Ms MELÉNDEZ ACOSTA, Nayeli Joaquinita (Universidad del Istmo); Ms GONZÁLEZ MENESES, Yesenia Nohemí (Tecnológico Nacional de México)

**Session Classification:** Track #1

Contribution ID: 14

Type: **not specified**

## **Aplicativo móvil con tecnología inmersiva para la promoción del turismo**

*Wednesday, September 6, 2023 4:00 PM (30 minutes)*

**Author:** Mr CONDORI QUISPE, Yhonn Joel (Universidad Privada de Tacna)

**Co-author:** Ms VALDIVIA GUZMAN, Alejandra Maria (Universidad Privada de Tacna)

**Presenters:** Ms VALDIVIA GUZMAN, Alejandra Maria (Universidad Privada de Tacna); Mr CONDORI QUISPE, Yhonn Joel (Universidad Privada de Tacna)

**Session Classification:** Track #1

Contribution ID: 15

Type: **not specified**

## Examining Cybersecurity Culture in Leon City Organizations: Insights from 2022

*Wednesday, September 6, 2023 4:30 PM (30 minutes)*

**Author:** Mr GARCÍA ARELLANO, Francisco Javier (Universidad La Salle Bajío)

**Co-authors:** Ms FLORES, Angélica (UCN); Dr PON, Carlos (UCN); Dr MARTÍNEZ, Rafael (UCN); Dr FLORES, Víctor (UCN); Prof. DONOSO, Ítalo (UCN)

**Presenters:** Ms FLORES, Angélica (UCN); Dr PON, Carlos (UCN); Mr GARCÍA ARELLANO, Francisco Javier (Universidad La Salle Bajío); Dr MARTÍNEZ, Rafael (UCN); Dr FLORES, Víctor (UCN); Prof. DONOSO, Ítalo (UCN)

**Session Classification:** Track #1

Contribution ID: 16

Type: **not specified**

## **Learning in Multiagent Systems to Solve Scheduling Problems: A Systematic Literature Review**

*Wednesday, September 6, 2023 5:30 PM (30 minutes)*

**Author:** Dr ICARTE, Gabriel (Universidad Arturo Prat)

**Co-authors:** Mr MONTOYA ALDECOA, Johan (Universidad Arturo Prat); Dr HE, Zhangyuan (Peking University Shenzhen)

**Presenters:** Dr ICARTE, Gabriel (Universidad Arturo Prat); Mr MONTOYA ALDECOA, Johan (Universidad Arturo Prat); Dr HE, Zhangyuan (Peking University Shenzhen)

**Session Classification:** Track #2

Contribution ID: 17

Type: **not specified**

## **Caracterización de Sismos en el Norte de Chile Utilizando Técnicas de Clustering para la Identificación de Posibles Puntos de Primera Respuesta**

*Wednesday, September 6, 2023 6:00 PM (30 minutes)*

**Author:** Prof. GARCÍA BARRERA, Francisco (Universidad Arturo Prat)

**Co-authors:** Dr CONTRERAS AGUILAR, David (Universidad Arturo Prat); Mr VERGARA RAMÍREZ, Fernando (Universidad Arturo Prat); Ms ANDAUR ESTICA, Xenia (Universidad Arturo Prat)

**Presenters:** Dr CONTRERAS AGUILAR, David (Universidad Arturo Prat); Mr VERGARA RAMÍREZ, Fernando (Universidad Arturo Prat); Prof. GARCÍA BARRERA, Francisco (Universidad Arturo Prat); Ms ANDAUR ESTICA, Xenia (Universidad Arturo Prat)

**Session Classification:** Track #2

Contribution ID: 18

Type: **not specified**

## **Aprendizaje profundo en imágenes de alimentos con etiquetas múltiples y ruidosas**

*Wednesday, September 6, 2023 6:30 PM (30 minutes)*

**Author:** Mr MORALES, Roberto (UCN)

**Co-authors:** Dr MARTÍNEZ, Angela (Universidad de Valparaíso); Dr AGUILAR TORRES, Eduardo (UCN)

**Presenters:** Dr MARTÍNEZ, Angela (Universidad de Valparaíso); Dr AGUILAR TORRES, Eduardo (UCN); Mr MORALES, Roberto (UCN)

**Session Classification:** Track #2

Contribution ID: 19

Type: **not specified**

## **Mejorando la recuperación de cobre por flotación mediante el uso de técnicas de Ciencia de datos y Aprendizaje automático**

*Wednesday, September 6, 2023 7:00 PM (30 minutes)*

**Author:** Dr FLORES, Víctor (UCN)

**Co-authors:** Prof. LEIVA, Claudio (UCN); Mr ORTÍZ, Edgardo (UCN); Mr HENRÍQUEZ, Nicolás (UCN); Dr MARTÍNEZ, Rafael (UCN)

**Presenters:** Prof. LEIVA, Claudio (UCN); Mr ORTÍZ, Edgardo (UCN); Mr HENRÍQUEZ, Nicolás (UCN); Dr MARTÍNEZ, Rafael (UCN); Dr FLORES, Víctor (UCN)

**Session Classification:** Track #2



Contribution ID: 20

Type: **not specified**

## **Variable Neighbourhood Descent and Neighbourhood Uses for the Beam Angle Optimisation Problem**

*Thursday, September 7, 2023 4:00 PM (30 minutes)*

**Author:** Mr GUTIERREZ, Maicholl (Pontificia Universidad Católica de Valparaíso)

**Co-authors:** Prof. LAGOS C., Carolina (Pontificia Universidad Católica de Valparaíso); Dr CABRERA G., Guillermo (Pontificia Universidad Católica de Valparaíso)

**Presenters:** Prof. LAGOS C., Carolina (Pontificia Universidad Católica de Valparaíso); Dr CABRERA G., Guillermo (Pontificia Universidad Católica de Valparaíso); Mr GUTIERREZ, Maicholl (Pontificia Universidad Católica de Valparaíso)

**Session Classification:** Track #3

Contribution ID: 21

Type: **not specified**

## **Desarrollo de un Sistema de Recomendación de Proveedores Tecnológicos usando Algoritmos de Filtrado basado en Contenidos**

*Thursday, September 7, 2023 4:30 PM (30 minutes)*

**Author:** Dr RUBIO LEÓN, José Miguel (Universidad Bernardo O'higgins)

**Co-author:** Mr PÉREZ CARREÑO, Iván (Universidad Bernardo O'higgins)

**Presenters:** Mr PÉREZ CARREÑO, Iván (Universidad Bernardo O'higgins); Dr RUBIO LEÓN, José Miguel (Universidad Bernardo O'higgins)

**Session Classification:** Track #3

Contribution ID: 22

Type: **not specified**

## The Role of Light Environment on Predicting Spectral Bands for Forest Canopy Characterization

*Thursday, September 7, 2023 5:30 PM (30 minutes)*

**Author:** Dr ARÉVALO RAMÍREZ, Tito (Pontificia Universidad Católica de Chile)

**Co-authors:** Dr FUENTES, Andrés (Universidad Federico Santa María); Dr AUAT CHEEIN, Fernando (Universidad Federico Santa María); Dr GUEVARA, Javier (University of California at Davis); Dr VILLACRÉS, Juan (University of California at Davis); Dr MENÉNDEZ, Oswaldo (UCN); Dr GUAMÁN RIVERA, Robert (Universidad de Ohiggins)

**Presenters:** Dr FUENTES, Andrés (Universidad Federico Santa María); Dr AUAT CHEEIN, Fernando (Universidad Federico Santa María); Dr GUEVARA, Javier (University of California at Davis); Dr VILLACRÉS, Juan (University of California at Davis); Dr MENÉNDEZ, Oswaldo (UCN); Dr GUAMÁN RIVERA, Robert (Universidad de Ohiggins); Dr ARÉVALO RAMÍREZ, Tito (Pontificia Universidad Católica de Chile)

**Session Classification:** Track #4

Contribution ID: 25

Type: **not specified**

## **Probabilistic Seismic Hazard Assessment of Northern Chile: Integrating Seismic and GNSS Strain Data**

*Friday, September 8, 2023 9:00 AM (30 minutes)*

**Author:** Dr DAS, Ranjit (UCN)

**Co-authors:** Dr MENESES, Claudio (Universidad Catolica del Norte); Dr WANG, Hua (Guangdong University of Technology)

**Presenters:** Dr MENESES, Claudio (Universidad Catolica del Norte); Dr WANG, Hua (Guangdong University of Technology); Dr DAS, Ranjit (UCN)

**Session Classification:** Track #5

Contribution ID: 26

Type: **not specified**

## **Metaversos en Educación: Una Mirada desde la Literatura**

*Friday, September 8, 2023 9:30 AM (30 minutes)*

**Author:** Prof. MELÉNDEZ ARAYA, Nahur (Universidad de Atacama)

**Co-authors:** Mr JORQUERA PALLAUTA, José (Universidad de Atacama); Mr MELÉNDEZ CASTILLO, Nahur (Mconsultores.cl)

**Presenters:** Mr JORQUERA PALLAUTA, José (Universidad de Atacama); Prof. MELÉNDEZ ARAYA, Nahur (Universidad de Atacama); Mr MELÉNDEZ CASTILLO, Nahur (Mconsultores.cl)

**Session Classification:** Track #5

Contribution ID: 27

Type: **not specified**

## **Analysis of the Use of Software Process Improvement Models in Agile Development**

*Friday, September 8, 2023 10:00 AM (30 minutes)*

**Author:** Dr CORNIDE REYES, Héctor (Universidad de Atacama)

**Co-authors:** Mr DURÁN, Cristian (Universidad de Atacama); Ms MADRIGAL, Gianina (Universidad de Atacama); Ms MUÑOZ, Guisselle (Universidad de Atacama); Dr MORALES BRITO, Jenny (Universidad Católica del Maule); Mr JORQUERA, José (Universidad de Atacama)

**Presenters:** Mr DURÁN, Cristian (Universidad de Atacama); Ms MADRIGAL, Gianina (Universidad de Atacama); Ms MUÑOZ, Guisselle (Universidad de Atacama); Dr CORNIDE REYES, Héctor (Universidad de Atacama); Dr MORALES BRITO, Jenny (Universidad Católica del Maule); Mr JORQUERA, José (Universidad de Atacama)

**Session Classification:** Track #5

Contribution ID: 28

Type: **not specified**

## **Un Sistema basado en Programación de Restricciones para la Asignación de Turnos en una Empresa de Suministro de Combustible**

*Friday, September 8, 2023 10:30 AM (30 minutes)*

**Authors:** Mr ECHEVERRÍA CANQUE, Gabriel (Universidad de Tarapacá); Dr VALDIVIA, Ricardo (Universidad de Tarapacá)

**Presenters:** Mr ECHEVERRÍA CANQUE, Gabriel (Universidad de Tarapacá); Dr VALDIVIA, Ricardo (Universidad de Tarapacá)

**Session Classification:** Track #5

Contribution ID: 29

Type: **not specified**

## **Himalayan Collision Zone Earthquakes and Seismotectonic Model**

*Thursday, September 7, 2023 8:00 AM (45 minutes)*

**Author:** Dr KAYAL, J.R. (Jadavpur University)

**Presenter:** Dr KAYAL, J.R. (Jadavpur University)

**Session Classification:** Workshop on Advanced Seismic Hazard and Risk Assessment



Contribution ID: **30**

Type: **not specified**

## **Assessment of Seismic Hazard - Quo Vadis**

*Thursday, September 7, 2023 8:45 AM (45 minutes)*

**Author:** Dr KIJKO, Andrzej (Natural Hazard Centre, Africa, University of Pretoria)

**Presenter:** Dr KIJKO, Andrzej (Natural Hazard Centre, Africa, University of Pretoria)

**Session Classification:** Workshop on Advanced Seismic Hazard and Risk Assessment

Contribution ID: 31

Type: **not specified**

## **Physics based ground motion model in seismic hazard assessment**

*Thursday, September 7, 2023 9:30 AM (45 minutes)*

**Author:** Dr STG, Raghukanth (Indian Institute of Technology Madras)

**Presenter:** Dr STG, Raghukanth (Indian Institute of Technology Madras)

**Session Classification:** Workshop on Advanced Seismic Hazard and Risk Assessment

Contribution ID: 32

Type: **not specified**

## Permanent Seismic Observation in Chile

*Thursday, September 7, 2023 10:15 AM (45 minutes)*

**Author:** Dr BARRIENTOS, Sergio (Director of the Seismological Center of the University of Chile)

**Presenter:** Dr BARRIENTOS, Sergio (Director of the Seismological Center of the University of Chile)

**Session Classification:** Workshop on Advanced Seismic Hazard and Risk Assessment

Contribution ID: 33

Type: **not specified**

## **What we know about upper plate seismicity in Northern Chile**

*Thursday, September 7, 2023 11:30 AM (45 minutes)*

**Author:** Dr GONZÁLEZ, Gabriel (Universidad Católica del Norte)

**Presenter:** Dr GONZÁLEZ, Gabriel (Universidad Católica del Norte)

**Session Classification:** Workshop on Advanced Seismic Hazard and Risk Assessment

Contribution ID: 34

Type: **not specified**

## Advances in Seismic Risk Assessment: A case study from Jammu and Kashmir, India

*Thursday, September 7, 2023 12:15 PM (45 minutes)*

Seismic risk assessment is a vital process for evaluating and mitigating the potential impacts of earthquakes on various exposure elements such as buildings, infrastructure and human lives. It involves estimating the probability and intensity of earthquake ground motions, as well as the vulnerability and exposure of the exposed elements. In recent years, significant advances have been made in seismic hazard and risk assessment.

Jammu and Kashmir, a region in northern India, is one of the most seismically active regions in the world, and has experienced several devastating earthquakes in the past. This paper presents some of the recent advances in seismic risk assessment for Jammu and Kashmir with a focus on stochastic hazard assessment, exposure and fragility function development, and seismic risk assessment. In addition, it also includes a case study of a stochastic scenario earthquake event with a defined return-period, along with its loss scenario for Srinagar city in Jammu and Kashmir region.

**Author:** Dr GUPTA, Sushil (Vice President, Risk Modeling and Insurance, Sustainability, RMSI)

**Presenter:** Dr GUPTA, Sushil (Vice President, Risk Modeling and Insurance, Sustainability, RMSI)

**Session Classification:** Workshop on Advanced Seismic Hazard and Risk Assessment

Contribution ID: 35

Type: **not specified**

## **Advances in Self-Tuning Optimal Control of Self-Balancing Robotic Systems**

*Thursday, September 7, 2023 9:00 AM (1 hour)*

**Author:** Dr SALEEM, Omer (National University of Computer and Emerging Sciences (NUCES))

**Presenter:** Dr SALEEM, Omer (National University of Computer and Emerging Sciences (NUCES))

**Session Classification:** Workshop on Automation & Robotics

Contribution ID: 36

Type: **not specified**

## **Assessment of Multispectral Vegetation Features for Digital Terrain Modeling in Forested Regions**

*Thursday, September 7, 2023 10:00 AM (1 hour)*

**Presenter:** Dr ARÉVALO RAMÍREZ, Tito (Pontificia Universidad Católica de Chile)

**Session Classification:** Workshop on Automation & Robotics

Contribution ID: 37

Type: **not specified**

## **Agricultural and Forestry Robotics: AI, Applications and Challenges**

*Thursday, September 7, 2023 11:30 AM (45 minutes)*

**Author:** Dr YANDÚN NARVAEZ, Francisco Javier (Project Scientist at the Kantor Laboratory, Carnegie Mellon University, Robotics Institute)

**Presenter:** Dr YANDÚN NARVAEZ, Francisco Javier (Project Scientist at the Kantor Laboratory, Carnegie Mellon University, Robotics Institute)

**Session Classification:** Workshop on Automation & Robotics



Contribution ID: 38

Type: **not specified**

## **Advances and challenges in developing robotic solutions for soft-fruit harvestings**

*Thursday, September 7, 2023 12:15 PM (45 minutes)*

**Author:** Dr GUEVARA GORDILLO, César Leonardo (Lecturer in Agri-Robotics at the Lincoln Institute for Agri-food Technology (LIAT), and member of the Lincoln Centre for Autonomous Systems (L-CAS).)

**Presenter:** Dr GUEVARA GORDILLO, César Leonardo (Lecturer in Agri-Robotics at the Lincoln Institute for Agri-food Technology (LIAT), and member of the Lincoln Centre for Autonomous Systems (L-CAS).)

**Session Classification:** Workshop on Automation & Robotics

Contribution ID: 39

Type: **not specified**

# Sliding Mode Control Approaches Applied to Trajectory Tracking for Non-holonomic Mobile Robots

*Thursday, September 7, 2023 3:00 PM (1 hour)*

## Abstract.

Sliding Mode Control (SMC) has been demonstrated to be a robust solution to control nonlinear systems under the presence of model uncertainties and disturbances. Therefore, this work shows the design, implementation, and comparison of three controllers based on the SMC concepts. The three controllers implemented are a conventional SMC controller and two variants: Dynamic Sliding Mode Control (D-SMC) and Dual Sliding Mode Control (DM-SMC). These controllers were designed based on an approximated model, which makes them suitable to control any system whose behavior can be approximated to a First Order Plus Delay Time (FOPDT) system. In this paper, the performance of the three controllers was evaluated for solving the Trajectory Tracking Problem (TTP) of a Non-holonomic Mobile Robot (NMR) in three different trajectory types. The results of each controller were quantified by performance indices and compared to a typical PI controller showing the advantages and disadvantages of each controller according to the case tested.

**Author:** Dr CAMACHO, Oscar (Universidad San Francisco de Quito)

**Presenter:** Dr CAMACHO, Oscar (Universidad San Francisco de Quito)

**Session Classification:** Keynote Talk

Contribution ID: 40

Type: **not specified**

## **Modelo de Conocimiento para el Aprendizaje Inteligente**

*Thursday, September 7, 2023 3:00 PM (30 minutes)*

**Author:** Dr MUÑOZ GARCIA, Ana (Universidad Federico Santa María)

**Presenter:** Dr MUÑOZ GARCIA, Ana (Universidad Federico Santa María)

**Session Classification:** Workshop en Educación en Ingeniería Informática

Contribution ID: 41

Type: **not specified**

## **Desafíos del uso de entornos virtuales para el proceso enseñanza-aprendizaje inmersivo utilizando realidad mixta: Proyecto DICI y Medicina**

*Thursday, September 7, 2023 3:30 PM (30 minutes)*

**Author:** Dr ARRIAGADA BENÍTEZ, Mauricio (Universidad de Tarapacá)

**Presenter:** Dr ARRIAGADA BENÍTEZ, Mauricio (Universidad de Tarapacá)

**Session Classification:** Workshop en Educación en Ingeniería Informática

Contribution ID: 42

Type: **not specified**

## **Utilización de Packet Tracer y GNS3 como herramientas de trabajo colaborativo en cursos de redes**

*Thursday, September 7, 2023 4:00 PM (30 minutes)*

**Author:** Dr PON, Carlos (Universidad Católica del Norte)

**Presenter:** Dr PON, Carlos (Universidad Católica del Norte)

**Session Classification:** Workshop en Educación en Ingeniería Informática

Contribution ID: 43

Type: **not specified**

## Uso de un videojuego para conocer los sitios patrimoniales de la Región de Atacama

*Thursday, September 7, 2023 5:30 PM (30 minutes)*

**Author:** Prof. MENÉNDEZ, Nahur (Universidad de Atacama)

**Presenter:** Prof. MENÉNDEZ, Nahur (Universidad de Atacama)

**Session Classification:** Workshop en Educación en Ingeniería Informática

Contribution ID: 44

Type: **not specified**

## **Impacto de las experiencias inmersivas en la enseñanza en industrias (VR, AR, MR)**

*Thursday, September 7, 2023 4:30 PM (30 minutes)*

**Author:** Mr TOMBA, Carlos (Holos Technology)

**Presenter:** Mr TOMBA, Carlos (Holos Technology)

**Session Classification:** Workshop en Educación en Ingeniería Informática

Contribution ID: 45

Type: **not specified**

## **Aprendizaje inmersivo en el uso de dispositivos de red**

*Thursday, September 7, 2023 6:00 PM (30 minutes)*

**Authors:** Dr TAYA ACOSTA, Edgar (Universidad Nacional Jorge Basadre Grohmann); Prof. BAR-RAZA VIZCARRA, Hugo (Universidad Nacional Jorge Basadre Grohmann)

**Presenters:** Dr TAYA ACOSTA, Edgar (Universidad Nacional Jorge Basadre Grohmann); Prof. BAR-RAZA VIZCARRA, Hugo (Universidad Nacional Jorge Basadre Grohmann)

**Session Classification:** Workshop en Educación en Ingeniería Informática



Contribution ID: 46

Type: **not specified**

## **Narrative maps: extraction and visualization of interactive narratives and applications**

*Friday, September 8, 2023 4:30 PM (1 hour)*

**Author:** Dr KEITH NORAMBUENA, Brian (Universidad Católica del Norte)

**Presenter:** Dr KEITH NORAMBUENA, Brian (Universidad Católica del Norte)

**Session Classification:** Workshop on Data & Knowledge Engineering

Contribution ID: 47

Type: **not specified**

## **Lifelong learning con generative memory replay**

*Friday, September 8, 2023 10:00 AM (1 hour)*

**Author:** Dr RADUCANU, Bogdan (Senior Researcher, LAMP (Learning and Machine Perception) Group, Computer Vision Center, Barcelona)

**Presenter:** Dr RADUCANU, Bogdan (Senior Researcher, LAMP (Learning and Machine Perception) Group, Computer Vision Center, Barcelona)

**Session Classification:** Workshop on Data & Knowledge Engineering

Contribution ID: 48

Type: **not specified**

## La próxima fase de la era digital: los beneficios del conocimiento automatizado y los peligros de las extensiones digitales de la mente

*Friday, September 8, 2023 11:30 AM (1h 30m)*

El invierno de I.A. duro 70 años, pero estalló en primavera cuando, a principios de 2023, ChatGPT se convirtió en el invento de difusión más rápida de la historia. Los modelos de aprendizaje profundo de transformadores están tomando por asalto nuestra realidad digital, agregando ingredientes potentes a un caldero de innovación que está siendo aderezado con ingredientes de blockchain y metaverso 3D. El paradigma de la comunicación digital y los datos ciertamente ha avanzado hacia la era del conocimiento y los algoritmos. Una revisión de estas tendencias recientes nos obliga a revisar también las limitaciones de este paradigma. La desinformación y las noticias falsas, las adicciones y los problemas de salud mental, la polarización política y la manipulación comercial son algunas de las consecuencias de un creciente desequilibrio de control entre lo artificial y lo humano. Al final, estas tecnologías son extensiones de la mente humana. Mantener el control sobre las estructuras globales de información y conocimiento también requerirá que la mente humana evolucione a un nuevo nivel. Discutimos las implicaciones. Más, aquí: <https://www.martinhilbert.net> & <https://www.youtube.com/@Prof.MartinHilbert>

**Author:** Dr HILBERT, Martin (Professor Department of Communication, University of California at Davis)

**Presenter:** Dr HILBERT, Martin (Professor Department of Communication, University of California at Davis)

**Session Classification:** Keynote Talk

Contribution ID: 49

Type: **not specified**

## **ROS of robotic systems: autonomous navigation and manipulator arms**

*Friday, September 8, 2023 9:00 AM (2 hours)*

**Authors:** Dr ACOSTA, Gustavo (Politecnico Colombiano Jaime Icaza Cadavid); Prof. HERRERA, Juan Camilo (Politecnico Colombiano Jaime Icaza Cadavid)

**Presenters:** Dr ACOSTA, Gustavo (Politecnico Colombiano Jaime Icaza Cadavid); Prof. HERRERA, Juan Camilo (Politecnico Colombiano Jaime Icaza Cadavid)

**Session Classification:** ROS of robotic systems: autonomous navigation and manipulator arms

Contribution ID: 50

Type: **not specified**

## **ROS of robotic systems: autonomous navigation and manipulator arms**

*Friday, September 8, 2023 11:30 AM (1h 30m)*

**Authors:** Dr ACOSTA, Gustavo (Politecnico Colombiano Jaime Icaza Cadavid); Prof. HERRERA, Juan Camilo (Politecnico Colombiano Jaime Icaza Cadavid)

**Presenters:** Dr ACOSTA, Gustavo (Politecnico Colombiano Jaime Icaza Cadavid); Prof. HERRERA, Juan Camilo (Politecnico Colombiano Jaime Icaza Cadavid)

**Session Classification:** ROS of robotic systems: autonomous navigation and manipulator arms

Contribution ID: 51

Type: **not specified**

## Protección de Software y su llegada al Mercado

*Friday, September 8, 2023 3:00 PM (30 minutes)*

**Authors:** Ms TORRES VALLEJOS, Bárbara (Directora DITT, Universidad Católica del Norte); Mr CABEZAS OPAZO, Fabián (Gestor de Propiedad Intelectual, DITT, Universidad Católica del Norte)

**Presenters:** Ms TORRES VALLEJOS, Bárbara (Directora DITT, Universidad Católica del Norte); Mr CABEZAS OPAZO, Fabián (Gestor de Propiedad Intelectual, DITT, Universidad Católica del Norte)

**Session Classification:** Workshop on Innovation and Technology Transferring

Contribution ID: 52

Type: **not specified**

## **Emprende con CORFO (sin morir en el intento)**

*Friday, September 8, 2023 3:30 PM (30 minutes)*

**Author:** Mr URZÚA BERBETTY, Guillermo (Dirección Regional CORFO Antofagasta)

**Presenter:** Mr URZÚA BERBETTY, Guillermo (Dirección Regional CORFO Antofagasta)

**Session Classification:** Workshop on Innovation and Technology Transferring

Contribution ID: 53

Type: **not specified**

## **Blitzscaling Canvas, para escalar un negocio**

*Friday, September 8, 2023 8:30 AM (1h 30m)*

**Author:** Mr ABBOTT, Jeffrey (Cofundador de Blitzscaling Ventures)

**Presenter:** Mr ABBOTT, Jeffrey (Cofundador de Blitzscaling Ventures)

**Session Classification:** Workshop on Innovation and Technology Transferring



Contribution ID: 54

Type: **not specified**

## **Ecosistema emprendedor UCN**

*Friday, September 8, 2023 4:00 PM (30 minutes)*

**Author:** Mr ROJAS BRAVO, Nicolás (Director USQAI, Universidad Católica del Norte)

**Presenter:** Mr ROJAS BRAVO, Nicolás (Director USQAI, Universidad Católica del Norte)

**Session Classification:** Workshop on Innovation and Technology Transferring

Contribution ID: 55

Type: **not specified**

## Conociendo Lean para la mejora de procesos software con gamificación.

*Wednesday, September 6, 2023 5:30 PM (1h 30m)*

Las metodologías de mejoramiento continuo permean los procesos de los diferentes sectores económicos. Una de las metodologías más relevantes es Lean Manufacturing que se aborda en el desarrollo de software. Lean Poker Card es una actividad gamificada que permite introducir los principios de lean en un equipo de trabajo experimentando de manera divertida como los principios lean pueden mejorar un proceso. El objetivo de la charla es aplicar esta actividad para dar a conocer la metodología Lean en el contexto de mejora de procesos software.

**Authors:** Dr GASCA, Gloria (Universidad de Medellín, Colombia); Dr GÓMEZ ÁLVAREZ, María Clara (Universidad de Medellín, Colombia)

**Presenters:** Dr GASCA, Gloria (Universidad de Medellín, Colombia); Dr GÓMEZ ÁLVAREZ, María Clara (Universidad de Medellín, Colombia)

**Session Classification:** Workshop on Software Process Improvement

Contribution ID: 56

Type: **not specified**

## Conference Dinner

*Thursday, September 7, 2023 8:00 PM (3 hours)*

**Session Classification:** Conference Dinner