

Eastern Time (ET)

Wednesday December 1st

9h00 - 9h20

Welcome to SIMBig 2021

Authors

Title

Data mining and Applications

9h20 - 9h40

Juan Ignacio Porta, Martin Ariel Dominguez and Francisco Tamarit

Automatic data imputation in time series processing using neural networks for industry and medical datasets

9h40 - 10h00

Carlos Gamboa-Venegas, Steffan Gómez-Campos and Esteban Meneses

Calibration of traffic simulations using simulated annealing and GPS navigation records

10h00 - 10h45

Andrei Broder (keynote Speaker)

TBD

10h45 - 11h05

Adrian Ulloa, Soledad Espezua, Julio Villavicencio, Oscar Miranda and Edwin Villanueva

Predicting daily trends in the Lima Stock Exchange General Index using economic indicators and financial news sentiments

11h05 - 11h25

Miguel Nunez-Del-Prado and Leibnitz Rojas-Bustamante

Government Public Services Presence Index based on Open Data

11h25 - 11h45

Edwin Alvarez Mamani, José Luis Soncco Álvarez and Harley Vera Olivera

Clustering Analysis for Traffic Jam Detection for Intelligent Transportation System

Pause

Machine learning and Deep learning

14h10 - 14h30

Eya Hammami and Rim Faiz

A Study of Dynamic Convolutional Neural Network Technique for SCOTUS legal opinions data classification

14h30 - 15h15

Jiawei Han (keynote Speaker)

TBD

15h15 - 15h35

Alonso Puente and Marks Calderon

Hydra: Funding state prediction for Kickstarter Technology projects using a Multimodal Deep Learning

15h35 - 15h55

Naomi Rohrbaugh and Edgar Ceh-Varela

Composite recommendations with heterogeneous graphs

15h55 - 16h15

Gianfranco Campos, Alessandro Morales, Arturo Flores and Jorge Gelso

Energy Efficiency Using IOTA Tangle for Greenhouse Agriculture

16h15 - 17h00

Jian Pei (keynote Speaker)

TBD

Thursday December 2nd

	<i>Authors</i>	<i>Title</i>
Data-Driven Software Engineering		
9h20 - 9h40	Airton Huaman, Marco Huanchuari and Lenis Wong	Multi-phase model based on K-means and Ant Colony Optimization to solve the capacitated vehicle routing problem with time windows
9h40 - 10h00	Geraldine Puntillo, Alonso Salazar and Lenis Wong	Enterprise architecture based on TOGAF for the adaptation of educational institutions to e-learning using the DLPCA methodology and Google Classroom
10h00 - 10h45	Jean Vanderdonckt (keynote Speaker)	TBD
10h45 - 11h05	Pablo Del Aguila, Dante Roque and Lenis Wong	Mobile app quality model based on SQuaRE and AHP
Health, NLP, and Social Media		
11h05 - 11h25	Tereza Yallico Arias and Junior Fabian	Automatic detection of levels of violence against women with Natural Language Processing using Machine Learning and Deep Learning techniques
11h25 - 11h45	Taghreed Tarmom, Eric Atwell and Mohammad Alsalka	Deep Learning vs Compression-Based vs Traditional Machine Learning Classifiers to Detect Hadith Authenticity
11h45 - 12h05	Randa Zarnoufi and Mounia Abik	Classical Machine Learning vs Deep Learning for Detecting Cyber-Violence in Social Media
Pause		
14h10 - 14h30	Nuhu Ibrahim and Riza Batista-Navarro	Automatic Detection of Deaths from Social Networking Sites
14h30 - 15h15	Marinka Zitnik (keynote Speaker)	TBD
15h15 - 15h35	Camila Mantilla-Saavedra and Juan Gutiérrez-Cárdenas	Model comparison for the classification of comments containing suicidal traits from Reddit via NLP and Supervised Learning
15h35 - 15h55	Syed Mehtab Alam, Elena Arsevska, Mathieu Roche and Maguelonne Teisseire	A data-driven score model to assess online news articles in Event-based surveillance system
15h55 - 16h15	Tomonari Masada	AmLDA: A Non-VAE Neural Topic Model
16h15 - 17h00	Francisco Pereira (keynote Speaker)	TBD
17h00 - 17h20	Asma Aldrees, Cherie Poland and Syeda Arzoo Irshad	Auditing Algorithms: Determining Ethical Parameters of Algorithmic Decision-Making Systems in Healthcare

Friday December 3rd

	<i>Authors</i>	<i>Title</i>
Image Processing		
9h20 - 9h40	Alejandra Valeria Lucero Burbano, Sherald Damian Noboa Chavez and Manuel Eugenio Morocho Cayamcela	Plant Disease Classification and Severity Estimation: A Comparative Study of Multitask Convolutional Neural Networks and First Order Optimizers
9h40 - 10h00	Diego Hernán Suntaxi Domínguez, Oscar Vicente Guarnizo Cabezas, Jonnathan Fabricio Crespo Yaguana, Samantha Carolina Quintanchala Sandoval, Israel Gustavo Pineda Arias and Manuel Eugenio Morocho Cayamcela	Deep Learning and Computer Vision in Smart Agriculture: Datasets, Models, and Applications
10h00 - 10h20	Carla Rucoba, Efrain Ramos and Juan Gutierrez-Cardenas	Crack detection in oil paintings using morphological filters and K-SVD algorithm
10h20 - 10h40	Filomen Incahuanaco Quispe, Edward Hinojosa Cardenas, Denis Pilares Figueroa and Cesar Beltrán Castañón	CoffeeSE: Interpretable transfer learning method for estimating the severity of coffee rust
10h40 - 11h00	Joel Cabrera and Edwin Villanueva	Investigating generative neural-network models for building pest insect detectors in sticky trap images for the Peruvian horticulture
Semantic and Machine Learning		
11h00 - 11h45	Vipin Kumar (keynote Speaker)	TBD
11h45 - 12h00	David Gatta, Kilian Hinteregger and Anna Fensel	Making Licensing of Content and Data Explicit with Semantics and Blockchain
12h00 - 12h45	Natasha Noy (keynote Speaker)	TBD
12h45 - 13h05	Chetraj Pandey, Rafal Angryk and Berkay Aydin	Deep Neural Networks based Solar Flare Prediction using Compressed Full-disk Line-of-sight Magnetograms
13h05 - 13h25	David Gatta, Kilian Hinteregger and Anna Fensel	Prediction Of Soil Saturated Electrical Conductivity By Statistical Learning
13h25 - 13h35	Closing SIMBig 2021	