

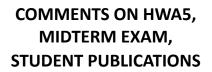
CS5056 Data Analytics

APRIL 7, 2021 Class 8/16

Agenda









TIME:
SUMMARY OF TIME
SERIES ANALYSIS FOR
PREDICTION



UNCERTAINTY:
BAYES THEOREM



EXPECTED VALUE FRAMEWORK



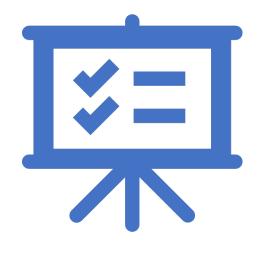
EXERCISES AND CASE STUDIES



CS5056 Data Analytics

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EXERCISE 2: EVF PURCHASE



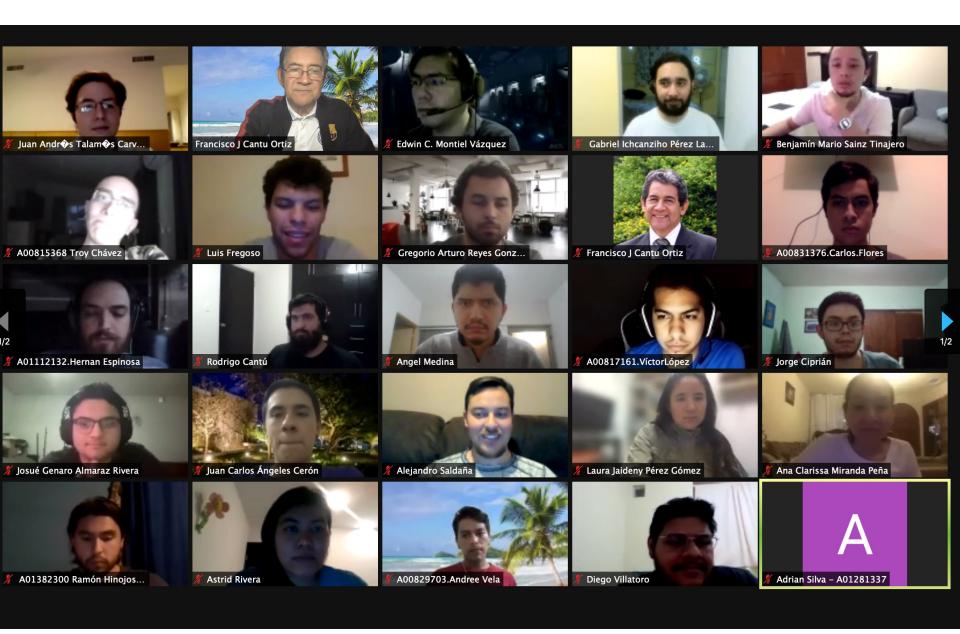
CASE STUDY 1: BANCOMER

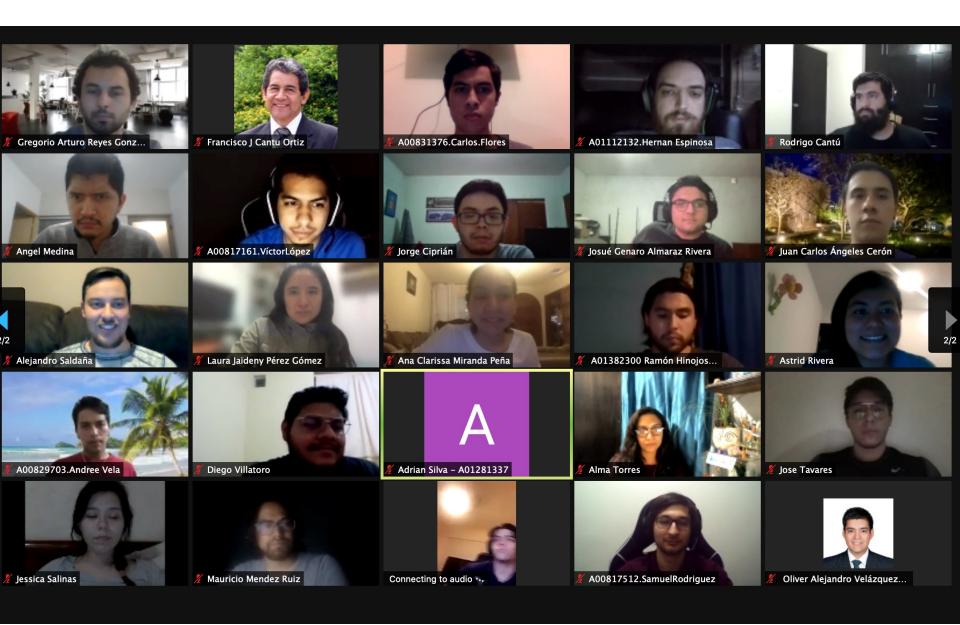


CASE STUDY 2: TVAZTECA



CASE STUDY 3:
METALSA





Active Learning

With Various
Exercises and Case
Studies

Enjoy the Class and have Fun!!!



Q1: TSA Superstore

Q2: FB Prophet

Q1 - CRISP-DM - Bank Churners

Midterm Exam

Q2 – Model Validation – Telecom Churners

Q3 - Panel Data - Guns

Q4 – TSA –Superstore-Technology

Conference Presentations

IEEE CEC 2021 Paper Instructions



- IEEE CEC 2021 <kkolodziejczak@conferencecatalysts.com>
- To:

 Benjamín Mario Sáinz Tinajero;
 Andrés Eduardo Gutiérrez Rodríguez;
- ⊗ Héctor Gibrán Ceballos Cancino; ⊗ Francisco Javier Cantú Ortiz

Dear Author,

Congratulations on the acceptance of your paper into the 2021 IEEE Congress on Evolutionary Computation.

Paper ID: 215

Paper Title: Evolutionary Clustering Algorithm Using Supervised Classifiers

CERTIFICATE OF PARTICIPATION

This certificate is proudly awarded to

Alicia Huidobro Espejel

Affiliation: Tecnologico de Monterrey, Mexico

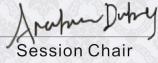
Who has presented a paper in the 2021 4th International Conference on Data Mining and Knowledge Discovery(DMKD 2021) Held in

Chiang Mai, Thailand, February 19-21 2021

Paper ID: K004

Paper Title: Data Mining Techniques to build a

Recommender System

















Welcome to the 17th Int. Conference on Data Science (ICDATA'21)

Non-Attendance Policy/Presentation Modes due to Coronavirus/COVID-19 - please see info here.

We invite you to attend ICDATA'21 and to submit papers. ICDATA'21 offers a 4 day single-track conference, keynote speeches by world renowned scientists, special sessions and free tutorials on all aspects of data science. In the past, the data science conference has attracted a lot of presentations in formal sessions plus keynotes, and excellent tutorials, with a lot of attendees plus many more visitors from other conferences of the congress.

For further information on the 2021 World Congress in Computer Science, Computer Engineering, and Applied Computing (CSCE'21) and its conferences, please use the following link: CSCE'21

ICDATA'21 is part of CSCE'2021. ICDATA'21 is an international conference for academics and practitioners held simultaneously with other joint conferences as part of CSCE'21, the 2021 World Congress in Computer Science, Computer Engineering, and Applied Computing. CSCE'21 is one of the largest annual gatherings of researchers and practitioners in computer science, computer engineering and applied computing. Each of the joint conferences in CSCE is a premier conference for presentation of advances in their respective fields. The congress includes 20 major tracks composed of 122 technical, research, and panel sessions as well as a number of keynote lectures and tutorials. All will be held simultaneously, same location and dates (July 26-29, 2021) to facilitate cross-disciplinary knowledge transfer. This year's Congress will be a hybrid event that combines a "live" in-person event with a "virtual" online component.

It is anticipated that CSCE'21 will attract between 1,000 and 2,000 participants from about 75 countries/territories. Participants range from established researchers on Professorial level, starting researchers (post-doc, PhD, Masters and Bachelor level) and contract researchers unto practitioners applying all aspects of data science in private or public companies or research institutions. 2019, 54% of attendees were from academia, 25% from industry; 20% from government and funding agencies; and 1% unknown. About half of the attendees were from outside USA; from 69 nations.

ICDATA'21 attracts quality papers & presentations. The data science conference has been highly ranked in the past. Please to not confuse ICDATA (formerly DMIN) with other "multi-conferences" with approximately 100% acceptance rates. The conference maintains its own program committee and manages its own thorough and objective review process of at least 2 independent reviewers (leading academics & practitioners). Over the past ten years, ICDATA has an average acceptance rate of approximately 50%. While this rate is not as low as for some top-tier conferences, it is respectable and still allows researchers from less developed countries to actively participate in the conference.

Publication & Indexing. Due to the high quality of published papers in the proceedings of CSCE in recent years, this year (2020) ALL accepted papers will be published by **Springer Nature**.

Publisher: Springer Nature – Book Series: Transactions on Computational Science & Computational Intelligence, https://www.springer.com/series/11769

Data Analytics						
Articles Final Projects, Feb-June 2021						
Id	Authors	Project Name	Status & Learning Outcomes			
1	Diana Laura Aguilar	A Contrast Pattern-Based Analysis of the Restaurant Industry in the US in the Year 2020 $$				
2	Josué Genaro Almaraz Rivera	COVID-19 Vaccination Progress Prediction inMexico				
3	Cristian Yair Alvarado Elizalde	Analyzing Factors That Generate CompanyBankruptcy				
	Mario Alberto Mendoza Cuevas					
4	Luis Alfonso Rojo S'anchez	Current Abortion Situation Analysis in Mexico				
	Sergio Eduardo Anaya Alvarez					
5	Andree Vela	INEGI 2020 Population Survey Analysis of Development Disparity of Disabled Individuals in Yucatan				
	Juan Carlos Ángeles					
6	Rodrigo Alejandro Canť u Herní andez	Fintech vs. Traditional Banks:Mexican User Experience Market Analysis				
7	Alma Socorro Torres Torres	COVID-19 Impact on Labour Productivity byIndustry and Region in the United Kingdom				
	Troy David Ch´ avez Gut´ errez					
8	J. F. Ciprian-Sanchez	Sentiment analysison information related to news coverage on well-known newsnetworks such as BBC, CNN, NBC, and Fox News				
	G. I. Perez-Landa					
9	Alejandra De Luna Pamanes Mauricio Mendez Ruiz	A sport climbing study: A data science approach				
10	Hernán Espinose Rodríguez					
11	Jessica Salinas Espinosa	Sentiment Analysis for the Identification of Misinformation on COVID-19 Vaccines				
	Carlos Flores Munguia					
12	Luis Fregoso Aparicio	Data Analysis for a automobile accident databasefrom Mexico to prevent accidents and reduceinsurance payment				
13	Andres Alberto Lopez Esquivel	Electric motor data analysis for temperatureestimation				
	Arturo Garcia Zendejas					
14	Ramon Hinojosa Alejandro	Twitter and Reddit post analysis on the subject of				
		Control of the control of the conference of				

Cryptocurrencies

Data Analytics					
Articles Final Projects, Feb-June 2021					
ld	Authors	Project Name	Status & Learning Outcomes		
15	Victor Ivan Lopez Rodriguez	COVID-19 New Cases Prediction after Lockdownusing Mobility and Recovery Data in Monterrey			
16	Alejandro Saldana Rodriguez Alejandro Lopez Vazquez	Technical Indicators in Indexed Stocks:ACRISP-DM Approach			
17	Clarissa Miranda-Pe na	The Winning Formula for Football Competitions			
18	Edwin C. Montiel-V azquez	Natural Language Processing for COVID-19vaccine perception study			
19	Laura Jaideny P'erez G'omez	Discussion topics on COVID-19 vaccine tweets			
20	Carmina P´erez Guerrero	Metric Analysis for the Semantic Segmentation of Jet Fire Temperature Zones			
21	Gregorio Arturo Reyes Gonz´alez	A Bayesian Method Approach to Digital ViolenceAgainst Women			
22	Astrid Rivera Partida Diego Villatoro Geronimo	Biodiversity of the Worldwide Food Production			
24	Alfonso Angel Medina-Santana	Global Environment Facility impact on renewableenergy- based rural electrification: A data analyticsperspective			
25	Samuel Guadalupe Rodriguez Rodriguez	Food retail sales prediction using weather forecast			
26	Benjamín Mario Sainz Tinajero	Performance Analysis and Comparison of Multi-objective Evolutionary Clustering Akgorithms			
27	Juan Andres Talamas Carvajal	Social media Effects on the market: Reddit andTwitter Data analysis on Stocks			
28	Oliver Alejandro Veľ azquez Flores	League of Legends and Teamfight Tactics (TBD)			

Francisco J. Cantú-Ortiz, PhD

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