2023 10th International Conference on Behavioural and **Social Computing (BESC 2023)**

Larnaca, Cyprus 30 October - 1 November 2023



IEEE Catalog Number: CFP23BES-POD ISBN:

979-8-3503-9589-1

Copyright © 2023 by the Institute of Electrical and Electronics Engineers, Inc. All Rights Reserved

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

*** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.

 IEEE Catalog Number:
 CFP23BES-POD

 ISBN (Print-On-Demand):
 979-8-3503-9589-1

 ISBN (Online):
 979-8-3503-9588-4

Additional Copies of This Publication Are Available From:

Curran Associates, Inc 57 Morehouse Lane Red Hook, NY 12571 USA Phone: (845) 758-0400

Fax: (845) 758-2633

E-mail: curran@proceedings.com Web: www.proceedings.com



The 10th International Conference on Behavioural and Social Computing (BESC-2023)

Table of Contents

1	Using GWAPs for Verifying PoS Tagging of Spoken Dialectal Spanish	1
2	Data-driven Analytics in Government Auditing: A First Look at Real-world Cases	8
3	Double Pepper: Mediated Human-Robot Interaction and Its Influence on Human Perception Lisa Keller and Nicholas H. Müller	14
4	EventsVista: Enhancing Event Visualization and Interpretation	21
5	Identifying Emotions of Children with Autism During a Virtual Reality Simulation of an Airplane Dena Al-Thani, Achraf Othman and Abdelrahman Al-Saadi	28
6	From Occupations to Tasks: A New Perspective on Automatability Prediction Using BERT Dawei Xu, Haoran Yang, Marian-Andrei Rizoiu and Guandong Xu	36
7	Finding Potential Research Collaborations from Social Networks Derived from Topic Models	43
8	Evaluating Role of Instagram's Multimedia in Connective Action Leveraging Diffusion of Innovation and Cognitive Mobilization Theories: Brazilian and Peruvian Social Unrest Case Studies Mainuddin Shaik, Niloofar Yousefi, Nitin Agarwal and Billy Spann	50
9	Use of Compression Analytics to Detect Deception	56
10	A Dataset for Entity Recognition of COVID-19 Public Opinion in Social Media	63
11	Exploring Travel Intentions in Post-COVID-19 China: A Weibo Case Study	69
12	Churn Prediction via Multimodal Fusion Learning: Integrating Customer Financial Literacy, Voice, and Behavioral Data. David Hason Rudd, Huan Huo, Md Rafiqul Islam and Guandong Xu Production Matter? An Employee State on the Effects of Coolid 10 Mininformation	76
13	Does Explanation Matter? An Exploratory Study on the Effects of Covid–19 Misinformation Warning Flags on Social Media	83
14	Decoupling Teaching Ability in Meta Knowledge Distillation	90
15	The geography of face-reserving violence crime prevalence and its climate roots within-China Qiran Pan and Xiaopeng Ren	97
16	Digital Games and Mobile Learning for Inclusion: Perspectives from Special Education Teachers Andriani Piki and Markos Markou	102
17	Predicting Interpersonal Influence from Conversational Features	110
18	A Research Proposal for Correcting Happiness Misperceptions on Social Media	117
19	A Socio-Ecological Antecedents Analysis of Collective Action in Contemporary China: A Four-Factor Predictive Model	122

	Ma Yiwen, Hao Chen and Meihan Du	
20	How do Economic Inequality and Urban-rural Inequality Affect Individual Psychology? An Analysis	
	Based On WEIBO Big Data	128
	Xin Li, Hao Chen and Meihan Du	
21	Cross-Lingual Sentiment Analysis in Literary Translation: A Case Study on the Novel "Crystal	
	Boys"	134
	Yanwen Hou and Yurong Ma	
22	Local Outlier Detection Based on K-distance Variation to Enhancing Imaging-aided Diagnosis	140
	Huiwen Dong, Rongcheng Li, Wenhua Wang, Shangrui Wu, Guandong Xu, Zhiwen Zhao and	
	Qing-Guo Wang	
23	Intentions Matter: The Role of Purpose in Excessive Social Media Usage and Smartphone Addiction	147
	Amal A.M Ali, Areej B. Babiker, Aiman Erbad and Raian Ali	
24	Course Review Sentiment Analysis: A Comparative Study Of Machine Learning and Deep Learning	
	Methods	154
	Ekin Fergan and Tsegaye Misikir Tashu	
25	MAgic: A Morphable Attention Based Algal Tiny Object Detection Mode	161
	Shuai Yuan, Ningkang Peng, Ziyan Shi, Yanhui Gu and Beili Sun	
26	Machine Learning with Explainability for Suicide Ideation Detection from Social Media Data	169
	Md Rafiqul Islam, Md Kowsar Hossain Sakib, Shanjita Akter Prome, Xianzhi Wang, Anwaar	
	Ulhaq, Cesar Sanin and David Asirvatham	
27	Applying the Q-sort Method for Designing Mobile Dating Apps: An Exploration of Matchmaking	
	and Selection Using Personality	175
•	Abigail Green, Gerry Chan and Rita Orji	100
28	Saving the Day for Users in Web Platforms: A Chatbot-based Solution for Privacy	183
•	Evangelia Vanezi, Aliki Kallenou and George Angelos Papadopoulos	100
29	Mapping Frameworks for Digital Behavior Change Interventions to Goal-Directed Design	190
20	Farhat Ul Ain and Vladimir Tomberg	
30	Public perception towards intelligent medical technologies during and postCOVID-19 pandemic:	107
	Exploring health communication in social media using neural topic models	197
21	Li Lei and Guan Liu	204
31	Mining Software Repositories to identify Electric Vehicle Trends: The Case of GitHub	204
32	Emmanouil Rigas, Maria Papoutsoglou, Georgia Kapitsaki and Nick Bassiliades Exploring Conversational Agents as an Effective Tool for Measuring Cognitive Biases in Decision-	
32	Making	210
	Stephen Pilli	210
33	Two-factor authentication by combining PIN and biometrics Touch Dynamics	215
33	Vincenzo Gattulli, Donato Impedovo and Giuseppe Pirlo	213
34	MASSE: A Multi-Agent Based Air Ticketing Service Selection Approach	221
٥.	Jian Cao, Chunhou Liu, Yudong Tan and Qiqi Cai	
35	Media's Coverage and Public Opinion on Traditional Chinese Medicine	227
	Qiaoqiao Sun, Xianzhe Feng and Yan Huang	
36	ChatGPT for generating stories and mind-maps in storytelling	232
-	Xieling Chen, Di Zou, Haoran Xie and Fu Lee Wang	
37	Feasibility of Structured, Machine-Readable Privacy Notices	240
	Vitor Jesus, Asma Patel and Deepak Kumar	
38	#HerMetaverseToo - Gender-based Hate and Abuse in the Metaverse: The Case of Female Athletes	248
	Andria Procopiou and Andriani Piki	

39	Underwriting Knowledge Graph Construction, Maintenance and Its Application on Explainable	
	Exclusion	256
	Khanh Van Nguyen, Huan Huo, Peter Tilocca and Guandong Xu	
40	Auditing Machine Behaviors: Does a diverse crowd result in different social norms?	263
	Evgenia Christoforou, Kalia Orphanou, Nicolas Nicolaou, Efstathios Stavrakis and Jahna	
	Otterbacher	
41	Fostering Cybersecurity Awareness and Skills Development Through Digital Game-Based	
	Learning	271
	Andriani Piki, Eliana Stavrou, Andria Procopiou and Anthimos Demosthenous	
42	Beyond Scores: A Novel Method for Predicting Student Performance Based on Rank and Positional	
	Embedding	280
	Wei Han, Zongxi Li, Haoran Xie, Kevin Hung and Minhong Wang	
43	Measuring the Rise and Fall of a Subreddit using Text Analytics: The Life Course of r/Antiwork	287
	Ari Stillman and Jessica Witte	