

2022 8th International Conference on Information Management (ICIM 2022)

**Cambridge, United Kingdom
25 – 27 March 2022**



**IEEE Catalog Number: CFP22IDQ-POD
ISBN: 978-1-6654-5175-8**

**Copyright © 2022 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:	CFP22IDQ-POD
ISBN (Print-On-Demand):	978-1-6654-5175-8
ISBN (Online):	978-1-6654-5174-1

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

2022 8th International Conference on Information Management (ICIM)

ICIM 2022

Table of Contents

Preface	xi
Committees	xii

ICIM 2022

A Bibliometric Analysis of the Digital Divide Among the Elderly	1
<i>Tangrong Wang (Sichuan University, China), Mingze Zhang (Sichuan University, China), and Ting Xiong (Sichuan University, China)</i>	
Knowledge Simplification: A Conceptual Framework	6
<i>Mahmoud E. Said (Universiti Putra Malaysia, Malaysia), Marzanah A. Jabar (Universiti Putra Malaysia, Malaysia), Khaironi Yatim Sharif (Universiti Putra Malaysia, Malaysia), and Fatimah Sidi (Universiti Putra Malaysia, Malaysia)</i>	
Assessment and Management of Information Security Practices and Knowledge Gap: Evidence from GRID Telecommunications Department of Ghana GRID Company Limited	11
<i>Suglo Tohari Luri (Ghana GRID Company Limited, Ghana)</i>	
Collaboration Networks and Innovation Performance of SMEs: The Moderating Role of Intellectual Property Protection	15
<i>Chang Lu (Nanjing University of Science and Technology, China) and Yong Qi (Nanjing University of Science and Technology, China)</i>	
Knowledge Management as Driver for Prevention and Performance Trade-Offs	20
<i>Guilherme Alcântara Pinto (Chaire Prévention et Performance, Laboratoire Génie Industriel, France), Isabelle Nicolai (Université Paris-Saclay, France), and Christian Michelot (Chaire Prévention et Performance, Département Sciences Humaines et Sociales, France)</i>	
The Effects of Augmented Reality Learning Experiences on Students' Academic Performance: A Meta-Analysis Review	25
<i>Wen-Jing Zhao (Guangzhou University, People's Republic of China), Zhong Cao (Guangzhou University, People's Republic of China), and Hong-Jian Liao (Guangzhou University, People's Republic of China)</i>	
Research on China's Insurance Standardization Management System	32
<i>Nana Niu (China National Institute of Standardization, China), Di Che (China National Institute of Standardization, China), and Guoqiang Chen (BGRIMM Technology Group, China)</i>	

Creating Library Marketing Campaign on New Media: Practice of National Science Library, Chinese Academy of Sciences	36
Xiaomu Xu (<i>National Science Library, Chinese Academy of Sciences, China</i>)	
Research on Experimental Resource Sharing System for New Engineering Talents Training: Taking Industrial Engineering Laboratory of Wuhan University of Technology as an Example	41
Jun Xiao (<i>Wuhan University of Technology, China</i>), Li Zhang (<i>Wuhan University of Technology, China</i>), and Xu Luo (<i>Wuhan University of Technology, China</i>)	
Exploration and Practice of Virtual Simulation Experiment Teaching for Mechanical Basic Courses: Taking the Non-Mechanical Major as an Example	46
Jun Xiao (<i>Wuhan University of Technology, China</i>), Zhangjie Li (<i>Wuhan University of Technology, China</i>), and Zhijie Yang (<i>Wuhan University of Technology, China</i>)	
Asset Management System of University Laboratory Equipment Based on Data Mining and Analysis	51
Xu Luo (<i>Wuhan University of Technology, China</i>), Jun Xiao (<i>Wuhan University of Technology, China</i>), and Man Xiao (<i>Wuhan University of Technology, China</i>)	
Toward Developing Knowledge Grid Model Among Big Data Community: Pilot Study	56
Sara Hosseinioun (<i>Universiti Putra Malaysia, Malaysia</i>), Rusli Abdullah (<i>Universiti Putra Malaysia, Malaysia</i>), Khashayar Namsehchi (<i>Universiti of Malaya, Malaysia</i>), Yusmadi Yah Jusoh (<i>Universiti Putra Malaysia, Malaysia</i>), and Marzanah Jabar (<i>Universiti Putra Malaysia, Malaysia</i>)	
Research on Voip-Over-VPNs Classification And Mitigation	63
Liu Chaoqun (<i>Wuhan University of Technology, China</i>), Luo Jie (<i>Wuhan University of Technology, China</i>), and Dong Bin (<i>Wuhan Greenet Information Service Co., Ltd, China</i>)	
Extending a Socio-Technical Model of the Barriers to Digital Transformation Through Data Triangulation	68
Henning Brink (<i>Osnabrück University, Germany</i>), Sven Packmehr (<i>Malmö University, Sweden</i>), and Fynn-Hendrik Paul (<i>Osnabrück University, Germany</i>)	
Extending the Continuance Intention to Use Mobile Payment of Thai Boomers Under a New Normal Situation using UTAUT2 with Inertia Perspective	75
Puttipong Anantasopon (<i>King Mongkut's Institute of Technology, Thailand</i>), Tanat Kowatanawinta (<i>King Mongkut's Institute of Technology, Thailand</i>), and Saichon Pinmanee (<i>King Mongkut's Institute of Technology, Thailand</i>)	
Relevance Collaborative Filtering Algorithm for Medical Information Recommendation	81
Yi Yang (<i>Southern Medical University, China</i>), Dekuang Yu (<i>Southern Medical University, China</i>), Minxuan Wang (<i>Southern Medical University, China</i>), and Shan Zhang (<i>Southern Medical University, China</i>)	
Dimensionality Reduction and Supervised Learning for Intrusion Detection	86
Ibrahim Obeidat (<i>The Hashemite University, Jordan</i>), Wafa' Eleisah (<i>The Hashemite University, Jordan</i>), and Kinda Magableh (<i>The Hashemite University, Jordan</i>)	

Within-Individual Increases in Solver Participation Level on Crowdsourcing Contests Platform: A Social Cognitive Perspective	92
<i>Wei Wu (Nanjing University of Finance & Economics, China), Qiao Qiao (Nanjing University of Finance & Economics, China), and Guodong Li (Nanjing University of Finance & Economics, China)</i>	
Enhancing Consumer Usage of AI-Chatbots: The Role of Perceived Humanness, Social Presence, and Social Interactivity	97
<i>Qiao Qiao (Nanjing University of Finance & Economics, China), Wei Wu (Nanjing University of Finance & Economics, China), and Yang Li (Hefei University of Technology, China)</i>	
Improving Consumers Continuous Usage of Chatbots: The Perspective of Multiple Reference Effects	104
<i>Qiao Qiao (Nanjing University of Finance & Economics, China), Wei Wu (Nanjing University of Finance & Economics, China), and Yang Li (Hefei University of Technology, China)</i>	
Large-Scale Tree Detection Through UAV-Based Remote Sensing in Indonesia: Wallacea Case Study	110
<i>Ibnu F. Kurniawan (Birmingham City University, UK; Coventry University, UK), Adel Aneiba (Birmingham City University, UK), Ambreen Hussain (Birmingham City University, UK), Moad Idrissi (Birmingham City University, UK), Iswan Dunggio (State University of Gorontalo, Indonesia), and A. Taufiq Asyhari (Birmingham City University, UK)</i>	
A Cyber Security Cognizance Among College Teachers and Students in Embracing Online Education	116
<i>Ailen B. Garcia (Occidental Mindoro State College, Philippines) and Shaina Mae C. Bongo (Occidental Mindoro State College, Philippines)</i>	
Voice Assistants in Healthcare: The Patient's Perception	120
<i>Mike Krey (Zurich University of Applied Sciences, Switzerland) and Rubén Ramirez Garcia (Zurich University of Applied Sciences, Switzerland)</i>	
Research on Current Status and Development Trend of Management System Standards Internationally and in Major Countries	131
<i>Di Che (China National Institute of Standardization, China) and Xiaoyan Du (China National Institute of Standardization, China)</i>	
Designing a Lean-Based Production Management Model to Reduce Non-Fulfilled Orders at a Metalworking Company	135
<i>Gino Apaza-Casabona (Universidad Peruana de Ciencias Aplicadas, Peru), Steve Bacilio-Peve (Universidad Peruana de Ciencias Aplicadas, Peru), Claudia Leon-Chavarri (Universidad Peruana de Ciencias Aplicadas, Peru), and Edgar Ramos-Palomino (Universidad Peruana de Ciencias Aplicadas, Peru)</i>	
Model to Increase the Production Efficiency of Low-Pressure Regulators Through the Combined Use of Lean Tools at a Metalworking SME	141
<i>Billy Bringas-Fernandez (Universidad Peruana de Ciencias Aplicadas, Peru), Marcia Carrion-Reyes (Universidad Peruana de Ciencias Aplicadas, Peru), Ernesto Altamirano-Flores (Universidad Peruana de Ciencias Aplicadas, Peru), and Gino Viacava-Campos (Universidad Peruana de Ciencias Aplicadas, Peru)</i>	

A Model Aimed at Reducing Absenteeism by Redesigning Workspaces at School Supply Companies in the Plastics Industry	146
<i>Lorena Naomi Chanca Valverde (Universidad Peruana de Ciencias Aplicadas, Peru), Raidt Javier Salinas Diaz (Universidad Peruana de Ciencias Aplicadas, Peru), and Claudia Carolina Leon Chavarri (Universidad Peruana de Ciencias Aplicadas, Peru)</i>	
Inventory Management Model Applying Cyclic Counting by ABC-AHP Classification in a Laboratory Equipment Distribution Company	151
<i>Gianmarco Chavez Medina (Universidad Tecnológica del Perú, Perú), Sebastian Espinoza Cabello (Universidad Tecnológica del Perú, Perú), Yeimy Salvatierra Garcia (Universidad Tecnológica del Perú, Perú), Grimaldo Quispe Santivañez (Universidad Tecnológica del Perú, Perú), and Elva Castañeda (Universidad Peruana de Ciencias Aplicadas, Perú)</i>	
A Scheduling Optimization Algorithm Based on Non- Cooperative Game in the Cloud Manufacturing	155
<i>Guanyu Zhu (University of the Cordilleras, Philippines) and Xia Shao (Shangqiu Normal University, China)</i>	
Design of a Production System using 5S, SLP and Work Study to Increase Productivity at a Bakery SME	160
<i>Mauricio Alvarado-Pajares (Universidad Peruana de Ciencias Aplicadas, Peru), Daniel Bautista-Choquehuanca (Universidad Peruana de Ciencias Aplicadas, Peru), and Claudia Leon-Chavarri (Universidad Peruana de Ciencias Aplicadas, Peru)</i>	
Improving Construction Waste Management using Transportation Management and Lean Tools at a Construction and Hydrocarbons Company	166
<i>Freddy Calluche-Avendaño (Universidad Peruana de Ciencias Aplicadas, Peru), Krissia Castillo-Flores (Universidad Peruana de Ciencias Aplicadas, Peru), and Gino Viacava-Campos (Universidad Peruana de Ciencias Aplicadas, Peru)</i>	
Service Level Optimization using ABC Distribution, Forecasts and the Packaging and Stowage Model Through Lean Warehousing at a SME Marketing Company	171
<i>Arnold Villacrez-Zelada (Universidad Peruana de Ciencias Aplicadas, Peru), Jorge Liñer-Hernandez (Universidad Peruana de Ciencias Aplicadas, Peru), and Gino Viacava-Campos (Universidad Peruana de Ciencias Aplicadas, Peru)</i>	
Improving Perfect Orders at a Freight Transportation SME Through Process Management, Autonomous Maintenance, Working Methodology and Demand Forecast	176
<i>German Bazan-Chafloque (Universidad Peruana de Ciencias Aplicadas, Peru), Fernando Sinchi-Perez (Universidad Peruana de Ciencias Aplicadas, Peru), and Iliana Macassi-Jauregui (Universidad Peruana de Ciencias Aplicadas, Peru)</i>	
Production Management Model to Reduce Cycle Times using Lean Manufacturing in a Company in the Metalworking Sector	182
<i>Erick Hanson Bolaños Valencia (Universidad Tecnológica del Perú, Perú), Yeimy Salvatierra García (Universidad Tecnológica del Perú, Perú), Grimaldo Quispe Santivañez (Universidad Tecnológica del Perú, Perú), and Elva Castañeda (Universidad Peruana de Ciencias Aplicadas, Peru)</i>	

Optimization Model to Increase the Productive Flow, Applying SLP, 5s and Kanban-Conwip Hybrid System in Companies of the Metalworking Sector	186
<i>David Enrique Apaza Diaz (Universidad Tecnológica del Perú, Perú), Yeimy Salvatierra García (Universidad Tecnológica del Perú, Perú), Grimaldo Quispe Santivañez (Universidad Tecnológica del Perú, Perú), and Elva Castañeda (Universidad Peruana de Ciencias Aplicadas, Perú)</i>	
Case Study: A Medium-Sized Baby Clothing Manufacturing Company, A Production Model Based on Standardization and SLP	191
<i>Cristian Carhuayano-Paucar (Universidad Peruana de Ciencias Aplicadas, Peru), Jordan Caceres-Cipriano (Universidad Peruana de Ciencias Aplicadas, Peru), and Gino Viacava-Campos (Universidad Peruana de Ciencias Aplicadas, Peru)</i>	
Sales & Operations Planning and EOQ Model to Increase Dispatch Effectiveness: Explosives Company	196
<i>Elida Guerra-Lupaca (Universidad Peruana de Ciencias Aplicadas, Peru), Johan Rodriguez-Arevalo (Universidad Peruana de Ciencias Aplicadas, Peru), and Gino Viacava-Campos (Universidad Peruana de Ciencias Aplicadas, Peru)</i>	
Corporate Environmental Performance, Executive Team Education Background and Green Technology Innovation	201
<i>Jian Fang (Henan University, China) and Gege Feng (Henan University, China)</i>	
The Impact of Digital Media and Artificial Intelligence on the SMEs in Developing Countries: An Exploratory Desk Study	207
<i>Omar Faruk (University of Bremen, Germany), Nazmul Haque (Noakhali Science and Technology University, Bangladesh), Aaron Heuermann (University of Bremen, Germany), and Abdullah Al Noman (University of Bremen, Germany)</i>	
The Impact of Enterprise Digital Transformation on Innovation Performance	212
<i>Ting Sun (Henan University, China)</i>	
Study on the Linkage Development of Logistics Industry and Agriculture: A Case Study of Kaifeng	218
<i>Luyao Wang (Henan University, China)</i>	
Research on Quantitative Investment Strategies Based on Deep Learning Algorithms in the Context of the Need for Information Management	223
<i>Yueheng Wang (Shandong University, China) and Shaohang Huang (Shandong University, China)</i>	
Customer Participation in Product Idea Generation: Its Antecedents and Consequences	228
<i>Yao Li (Henan University, China) and Xuge Song (Henan University, China)</i>	
Digital Marketing & Marketing Decisions After Two Years of Covid-19. The Case of Latin America's 50 Best Restaurants 2020 & 2021	235
<i>Stefania Paretí (Universidad Andrés Bello, Chile), Claudia Bustamante (Universidad Técnica Federico Santa María, Chile), Ignacio Tampe (Pontificia Universidad Católica de Valparaíso, Chile), and David Flores (Pontificia Universidad Católica de Chile, Chile)</i>	

Management Model Under the BPM Approach and DT Tools to Increase the Level of Sales in a Peruvian Nanostore	241
<i>Juan Carlos Quiroz-Flores (Universidad Peruana de Ciencias Aplicadas, Peru), Carla Brenda Valverde-Huaman (Universidad Peruana de Ciencias Aplicadas, Peru), and Martin Alvaro Romero-Vega (Universidad Peruana de Ciencias Aplicadas, Peru)</i>	
Modification of Business Model Based on Financial Model Analyses	246
<i>Sergei Smirnov (Saint-Petersburg State University, Russia), Natalia Loskutova (Saint-Petersburg State University, Russia), and Maria Evnevich (Saint-Petersburg State University, Russia)</i>	
A Case Study in Digital Inclusion and Sustainability in Regional New Zealand	251
<i>Emre Erturk (School of Computing, Eastern Institute of Technology, New Zealand) and Ian Purdon (School of Computing, Eastern Institute of Technology, New Zealand)</i>	
Author Index	257