2017 International Conference on Machine Learning and Data Science (MLDS 2017)

Noida, India 14-15 December 2017



IEEE Catalog Number: CFP17M85-POD ISBN:

978-1-5386-3447-9

Copyright \odot 2017 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:
 CFP17M85-POD

 ISBN (Print-On-Demand):
 978-1-5386-3447-9

 ISBN (Online):
 978-1-5386-3446-2

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



2017 International Conference on Machine learning and Data Science

MLDS 2017

Table of Contents

Invited Talks	vii
Committees	xi
MLDS 2017 Technical Papers	
A Comparison of Class Imbalance Techniques for Real-World Landslide Predictions	1
Kapil Agrawal, Yashasvi Baweja, Deepti Dwivedi, Ritwik Saha, Prabhakar Prasad, Shubham Agrawal, Sunil Kapoor, Pratik Chaturvedi, Naresh Mali, Venkata Uday Kala, and Varun Dutt	
A Support Vector Machine Based Approach for Code Smell Detection	9
An Empirical Investigation to Overcome Class-Imbalance in Inspection Reviews	15
Categorical Classification and Deletion of Spam Images on Smartphones Using Image Processing and Machine Learning	23
Classification of Cancerous Profiles Using Machine Learning	31
Comprehensive Review On Supervised Machine Learning Algorithms	37
Data Driven Decision Support to Fund Graduate Studies in Abroad Universities	44
Shahriar Yazdipour and Nahid Taherian Extractive Text Summarization Using Word Vector Embedding	51

Feature Selection Using Autoencoders	56
Influence of Different Fields of View on Decision-Making in	
a Search-and-Shoot Scenario	61
Akash K Rao, Utkrisht Dhankar, Chandan Satyarthi, Sushil Chandra, and Varun Dutt	
INGC: Graph Clustering & Outlier Detection Algorithm Using Label	
Propagation	68
Vandana Bhatia, Bharti Saneja, and Rinkle Rani	
Internet of Things and Decision Support System for eHealth - Applied to Cardiometabolic Diseases	75
Parag Chatterjee, Ricardo Luis Armentano, and Leandro Javier Cymberknop	70
JPEG Compression Detection Based on Edge-Corner Features Using SVM	80
Yongsoo Choi, Dongshik Kang, Jae Jeong Hwang, and Kang Hyeon Rhee	
Learning to Filter Documents for Information Extraction Using Rapid	
Annotation	85
Carlos A. Aguirre, Sneha Gullapalli, Maria F. De La Torre, Alice Lam, Joshua Levi Weese, and William H. Hsu	
Modeling Choice Variation in Search Strategies with Multi-Armed Bandit Problems	91
Neha Sharma and Varun Dutt	
Modeling Decisions in Games Using Reinforcement Learning	98
Patient Journey Visualizer: A Tool for Visualizing Patient Journeys	106
Spotted Hyena Optimizer for Solving Engineering Design Problems	114
Using LSTMs for Predicting Patient's Expenditure on Medications	120
Validation of Inspection Reviews over Variable Features Set Threshold	128
Weighted Frequent Subgraph Mining Using Affinity Weighing in Distributed Environment	136
Vipul Kumar and Daya Gupta	
Author Indox	4 4 4