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ECML PKDD 2018 Workshops

DMLE 2018 and IoTStream 2018
Dublin, Ireland, September 10–14, 2018
Revised Selected Papers

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Preface

The European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML PKDD) is the premier European machine learning and data mining conference and builds upon over 16 years of successful events and conferences held across Europe. ECML PKDD 2018 was held in Dublin, Ireland, during September 10–14, 2018. It was complemented by a workshop program, where each workshop was dedicated to specialized topics, cross-cutting issues, and upcoming trends. This year, 19 workshop proposals were submitted, and after a careful review process led by the workshop co-chairs, 17 workshops were accepted. The workshop program included the following workshops:

1. The Third Workshop on Mining Data for Financial Applications (MIDAS)
2. The Second International Workshop on Personal Analytics and Privacy (PAP)
3. New Frontiers in Mining Complex Patterns
4. Data Analytics for Renewable Energy Integration (DARE)
5. Interactive Adaptive Learning
6. The Second International Workshop on Knowledge Discovery from Mobility and Transportation Systems (KnowMe)
7. Learning with Imbalanced Domains: Theory and Applications
8. IoT Large-Scale Machine Learning from Data Streams
9. Artificial Intelligence in Security
10. Data Science for Human Capital Management
11. Advanced Analytics and Learning on Temporal Data
12. The Third Workshop on Data Science for Social Good (SoGood)
13. Urban Reasoning from Complex Challenges in Cities
14. Green Data Mining, International Workshop on Energy Efficient Data Mining and Knowledge Discovery
15. Decentralized Machine Learning on the Edge
16. Nemesis 2018: Recent Advances in Adversarial Machine Learning
17. Machine Learning and Data Mining for Sports Analytics (MLSA)

Each workshop had an independent Program Committee, which was in charge of selecting the papers. The success of the ECML PKDD 2018 workshops depended on the work of many individuals. We thank all workshop organizers and reviewers for the time and effort invested. We would also like to express our gratitude to the members of the Organizing Committee and the local staff who helped us. Sincere thanks are due to Springer for their help in publishing the proceedings.

This volume includes the selected papers of the Decentralized Machine Learning on the Edge and IoT Large-Scale Machine Learning from Data Streams workshops. The papers of the other workshops will be published in separate volumes. Lastly, we thank all participants and keynote speakers of the ECML PKDD 2018 workshops for their contributions that made the meeting really interesting.

December 2018

Carlos Alzate
Anna Monreale

Contents

Decentralized Machine Learning on the Edge

Sparsity in Deep Neural Networks - An Empirical Investigation with TensorQuant	5
<i>Dominik Marek Loroch, Franz-Josef Pfreundt, Norbert Wehn, and Janis Keuper</i>	
Asynchronous Federated Learning for Geospatial Applications	21
<i>Michael R. Sprague, Amir Jalalirad, Marco Scavuzzo, Catalin Capota, Moritz Neun, Lyman Do, and Michael Kopp</i>	
Generalizing Knowledge in Decentralized Rule-Based Models	29
<i>Pedro Strecht, João Mendes-Moreira, and Carlos Soares</i>	
Introducing Noise in Decentralized Training of Neural Networks	37
<i>Linara Adilova, Nathalie Paul, and Peter Schlicht</i>	

3rd Workshop on IoT Large Scale Machine Learning from Data Streams

Query Log Analysis: Detecting Anomalies in DNS Traffic at a TLD Resolver	55
<i>Pieter Robberechts, Maarten Bosteels, Jesse Davis, and Wannas Meert</i>	
Multimodal Tweet Sentiment Classification Algorithm Based on Attention Mechanism	68
<i>Peiyu Zou and Shuangtao Yang</i>	
Active Learning by Clustering for Drifted Data Stream Classification	80
<i>Jakub Zgraja, João Gama, and Michał Woźniak</i>	
Self Hyper-parameter Tuning for Stream Recommendation Algorithms	91
<i>Bruno Veloso, João Gama, Benedita Malheiro, and João Vinagre</i>	
Deep Online Storage-Free Learning on Unordered Image Streams.	103
<i>Andrey Besedin, Pierre Blanchart, Michel Crucianu, and Marin Ferecatu</i>	
Fault Prognostics for the Predictive Maintenance of Wind Turbines: State of the Art.	113
<i>Koceila Abid, Moamar Sayed Mouchaweh, and Laurence Cornez</i>	
Author Index	127