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Bernabé Dorronsoro · Patricia Ruiz ·
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Optimization and Learning


Third International Conference, OLA 2020
Cádiz, Spain, February 17–19, 2020
Proceedings

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Preface

This book collects a selection of the best papers presented at the Third International Conference on Optimization and Learning (OLA 2020), that was celebrated in Cádiz, Spain, during February 17–19, 2020. The conference aims to attract outstanding research papers focusing on the future challenges of optimization and learning methods, identifying and exploiting their synergies, and analyzing their applications in different fields, such as health, industry 4.0, games, logistics, among others.

In the 2020 edition of OLA, seven special sessions were organized into the following interesting topics: (i) artificial intelligence in games, (ii) metaheuristics & learning, (iii) learning and optimization in cybersecurity, (iv) computational intelligence for smart cities, (v) artificial intelligence for health applications, (vi) hyper-heuristics and their applications, and (vii) intelligent systems and energy. In addition, there were regular sessions covering topics such as (viii) optimization for learning, (ix) learning for optimization, (x) transportation, (xi) parallel and cooperative learning and optimization, (xii) scheduling, and (xiii) energy-aware optimization. In total, 13 sessions were organized and 2 keynote speakers were invited.

OLA 2020 renders a forum for the international communities of optimization and learning to discuss recent results and to develop new ideas and collaborations in a friendly and relaxed atmosphere. The conference received a total of 55 submissions, that were evaluated in a peer-review process by a minimum of three experts. After this reviewing process, 23 papers were selected to be part of these proceedings, meaning a 42% acceptance rate.

We would like to thank the members of the different committees involved in OLA 2020, as well as the authors of all submitted papers. All of them made the conference possible thanks to their generous effort.

February 2020

Bernabé Dorronsoro
Patricia Ruiz
Juan Carlos de la Torre
Daniel Urda
El-Ghazali Talbi

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Contents

Optimization and Learning

Multi-Agent Reinforcement Learning Tool for Job Shop Scheduling Problems	3
<i>Yailen Martínez Jiménez, Jessica Coto Palacio, and Ann Nowé</i>	
Evolving a Deep Neural Network Training Time Estimator	13
<i>Frédéric Pinel, Jian-xiong Yin, Christian Hundt, Emmanuel Kieffer, Sébastien Varrette, Pascal Bouvry, and Simon See</i>	
Automatic Structural Search for Multi-task Learning VALPs	25
<i>Unai Garciarena, Alexander Mendiburu, and Roberto Santana</i>	
Optimizing the Performance of an Unpredictable UAV Swarm for Intruder Detection	37
<i>Daniel H. Stolfi, Matthias R. Brust, Grégoire Danoy, and Pascal Bouvry</i>	
Demystifying Batch Normalization: Analysis of Normalizing Layer Inputs in Neural Networks	49
<i>Dinko D. Franceschi and Jun Hyek Jang</i>	
Learning Variables Structure Using Evolutionary Algorithms to Improve Predictive Performance	58
<i>Damián Nimo, Bernabé Dorronsoro, Ignacio J. Turias, and Daniel Urda</i>	
Container Demand Forecasting at Border Posts of Ports: A Hybrid SARIMA-SOM-SVR Approach	69
<i>Juan Jesús Ruiz-Aguilar, Daniel Urda, José Antonio Moscoso-López, Javier González-Enrique, and Ignacio J. Turias</i>	

Transportation

Intelligent Electric Drive Management for Plug-in Hybrid Buses	85
<i>Patricia Ruiz, Aarón Arias, Renzo Massobrio, Juan Carlos de la Torre, Marcin Seredynski, and Bernabé Dorronsoro</i>	
A Heuristic Algorithm for the Set k-Cover Problem	98
<i>Amir Salehipour</i>	

Learning

Computational Intelligence for Evaluating the Air Quality in the Center of Madrid, Spain.	115
<i>Jamal Toutouh, Irene Lebrusán, and Sergio Nesmachnow</i>	
Intelligent System for the Reduction of Injuries in Archery	128
<i>Christian Cintrano, Javier Ferrer, and Enrique Alba</i>	
Learning Patterns for Complex Event Detection in Robot Sensor Data.	138
<i>Bernhard G. Humm and Marco Hutter</i>	

Optimization

Comparison Between Stochastic Gradient Descent and VLE Metaheuristic for Optimizing Matrix Factorization.	153
<i>Juan A. Gómez-Pulido, Enrique Cortés-Toro, Arturo Durán-Domínguez, José M. Lanza-Gutiérrez, Broderick Crawford, and Ricardo Soto</i>	
A Capacity-Enhanced Local Search for the 5G Cell Switch-off Problem	165
<i>Francisco Luna, Pablo H. Zapata-Cano, Ángel Palomares-Caballero, and Juan F. Valenzuela-Valdés</i>	
Clustering a 2d Pareto Front: P-center Problems Are Solvable in Polynomial Time.	179
<i>Nicolas Dupin, Frank Nielsen, and El-Ghazali Talbi</i>	

Security and Games

A Distributed Digital Object Architecture to Support Secure IoT Ecosystems	195
<i>Angel Ruiz-Zafra and Roberto Magán-Carrión</i>	
Checking the Difficulty of Evolutionary-Generated Maps in a N-Body Inspired Mobile Game	206
<i>Carlos López-Rodríguez, Antonio J. Fernández-Leiva, Raúl Lara-Cabrera, Antonio M. Mora, and Pablo García-Sánchez</i>	
A Framework to Create Conversational Agents for the Development of Video Games by End-Users	216
<i>Rubén Baena-Perez, Iván Ruiz-Rube, Juan Manuel Dodero, and Miguel Angel Bolívar</i>	

Applications

Breast Cancer Diagnostic Tool Using Deep Feedforward Neural Network
and Mother Tree Optimization 229
Wael Korani and Malek Mouhoub

A Mathematical Model for Three-Dimensional Open Dimension Packing
Problem with Product Stability Constraints 241
Cong-Tan-Trinh Truong, Lionel Amodeo, and Farouk Yalaoui

Designing a Flexible Evaluation of Container Loading Using
Physics Simulation 255
Shuhei Nishiyama, Chonho Lee, and Tomohiro Mashita

Preventing Overloading Incidents on Smart Grids:
A Multiobjective Combinatorial Optimization Approach 269
*Nikolaos Antoniadis, Maxime Cordy, Angelo Sifaleras,
and Yves Le Traon*

Analysis of Data Generated by an Automated Platform for Aggregation
of Distributed Energy Resources 282
Juan Aguilar and Alicia Arce

Author Index 295