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Machine Learning: ECML 2003

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Machine Learning Ecml 2003 14th European Conference
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Luc de Raedt, Peter Flach



Machine Learning Ecml 2003 14th European Conference On Machine Learning Cavtatdubrovnik Croatia September 22-26 2003 Proceedings:

Machine Learning: ECML 2003 Nada Lavrač, Dragan Gamberger, Ljupco Todorovski, Hendrik Blockeel, 2003-11-18 The proceedings of ECML PKDD 2003 are published in two volumes the Proceedings of the 14th European Conference on Machine Learning LNAI 2837 and the Proceedings of the 7th European Conference on Principles and Practice of Knowledge Discovery in Databases LNAI 2838 The two conferences were held on September 22-26 2003 in Cavtat a small tourist town in the vicinity of Dubrovnik Croatia As machine learning and knowledge discovery are two highly related fields the co-location of both conferences is beneficial for both research communities In Cavtat ECML and PKDD were co-located for the third time in a row following the successful co-location of the two European conferences in Freiburg 2001 and Helsinki 2002 The co-location of ECML 2003 and PKDD 2003 resulted in a joint program for the two conferences including paper presentations invited talks tutorials and workshops Out of 332 submitted papers 40 were accepted for publication in the ECML 2003 proceedings and 40 were accepted for publication in the PKDD 2003 proceedings All the submitted papers were reviewed by three referees In addition to submitted papers the conference program consisted of four invited talks four tutorials seven workshops two tutorials combined with a workshop and a discovery challenge

Machine Learning: ECML 2004 Jean-Francois Boulicaut, Floriana Esposito, Fosca Giannotti, Dino Pedreschi, 2004-11-05 The proceedings of ECML PKDD 2004 are published in two separate albeit intertwined volumes the Proceedings of the 15th European Conference on Machine Learning LNAI 3201 and the Proceedings of the 8th European Conference on Principles and Practice of Knowledge Discovery in Databases LNAI 3202 The two conferences were co-located in Pisa Tuscany Italy during September 20-24 2004 It was the fourth time in a row that ECML and PKDD were co-located after the successful co-locations in Freiburg 2001 Helsinki 2002 and Cavtat Dubrovnik 2003 it became clear that researchers strongly supported the organization of a major scientific event about machine learning and data mining in Europe We are happy to provide some statistics about the conferences 581 different papers were submitted to ECML PKDD about a 75% increase over 2003 280 were submitted to ECML 2004 only 194 were submitted to PKDD 2004 only and 107 were submitted to both Around half of the authors for submitted papers are from outside Europe which is a clear indicator of the increasing attractiveness of ECML PKDD The Program Committee members were deeply involved in what turned out to be a highly competitive selection process We assigned each paper to 3 reviewers deciding on the appropriate PC for papers submitted to both ECML and PKDD As a result ECML PC members reviewed 312 papers and PKDD PC members reviewed 269 papers We accepted for publication regular papers 45 for ECML 2004 and 39 for PKDD 2004 and short papers that were associated with poster presentations 6 for ECML 2004 and 9 for PKDD 2004 The global acceptance rate was 14.5% for regular papers 17% if we include the short papers

Machine Learning: ECML 2005 João Gama, Rui Camacho, Pavel Brazdil, Alípio Jorge, Luís

Torgo, 2005-11-15 The European Conference on Machine Learning ECML and the European Conference on Principles and Practice of Knowledge Discovery in Databases PKDD were jointly organized this year for the fifth time in a row after some years of mutual independence before. After Freiburg 2001, Helsinki 2002, Cavtat 2003 and Pisa 2004, Porto received the 16th edition of ECML and the 9th PKDD in October 3-7. Having the two conferences together seems to be working well. 585 different paper submissions were received for both events which maintains the high submission standard of last year. Of these 335 were submitted to ECML only, 220 to PKDD only and 30 to both. Such a high volume of scientific work required a tremendous effort from Area Chairs, Program Committee members and some additional reviewers. On average, PC members had 10 papers to evaluate and Area Chairs had 25 papers to decide upon. We managed to have 3 highly qualified independent reviews per paper with very few exceptions and one additional overall input from one of the Area Chairs. After the authors' responses and the online discussions for many of the papers, we arrived at the final selection of 40 regular papers for ECML and 35 for PKDD. Besides these 32 others were accepted as short papers for ECML and 35 for PKDD. This represents a joint acceptance rate of around 13% for regular papers and 25% overall. We thank all involved for all the effort with reviewing and selection of papers. Besides the core technical program, ECML and PKDD had 6 invited speakers, 10 workshops, 8 tutorials and a Knowledge Discovery Challenge.

Machine Learning Nada Lavra, Dragan Gamberger, Ljupco Todorovski, 2014-01-15

Machine Learning: ECML 2001 Luc de Raedt, Peter Flach, 2003-06-30 This book constitutes the refereed proceedings of the 12th European Conference on Machine Learning ECML 2001 held in Freiburg, Germany, in September 2001. The 50 revised full papers presented together with four invited contributions were carefully reviewed and selected from a total of 140 submissions. Among the topics covered are classifier systems, naive Bayes classification, rule learning, decision tree based classification, Web mining, equation discovery, inductive logic programming, text categorization, agent learning, backpropagation, reinforcement learning, sequence prediction, sequential decisions, classification learning, sampling and semi-supervised learning.

Machine Learning: ECML'97 Maarten van Someren, Gerhard Widmer, 1997-04-09 This book constitutes the refereed proceedings of the Ninth European Conference on Machine Learning ECML 97 held in Prague, Czech Republic, in April 1997. This volume presents 26 revised full papers selected from a total of 73 submissions. Also included are an abstract and two papers corresponding to the invited talks as well as descriptions from four satellite workshops. The volume covers the whole spectrum of current machine learning issues.

Machine Learning and Knowledge Discovery in Databases. Research Track Albert Bifet, Jesse Davis, Tomas Krilavičius, Meelis Kull, Eirini Ntoutsi, Indrė Žliobaitė, 2024-08-30 This multi-volume set LNAI 14941 to LNAI 14950 constitutes the refereed proceedings of the European Conference on Machine Learning and Knowledge Discovery in Databases ECML PKDD 2024 held in Vilnius, Lithuania, in September 2024. The papers presented in these proceedings are from the following three conference tracks: Research Track. The 202 full papers presented here from this track were carefully reviewed and selected from 826 submissions. These papers are present in the following

volumes Part I II III IV V VI VII VIII Demo Track The 14 papers presented here from this track were selected from 30 submissions These papers are present in the following volume Part VIII Applied Data Science Track The 56 full papers presented here from this track were carefully reviewed and selected from 224 submissions These papers are present in the following volumes Part IX and Part X *Machine Learning and Knowledge Discovery in Databases. Research Track* Albert Bifet,Jesse Davis,Tomas Krilavičius,Meelis Kull,Eirini Ntoutsi,Indrė Žliobaitė,2024-08-29 This multi volume set LNAI 14941 to LNAI 14950 constitutes the refereed proceedings of the European Conference on Machine Learning and Knowledge Discovery in Databases ECML PKDD 2024 held in Vilnius Lithuania in September 2024 The papers presented in these proceedings are from the following three conference tracks Research Track The 202 full papers presented here from this track were carefully reviewed and selected from 826 submissions These papers are present in the following volumes Part I II III IV V VI VII VIII Demo Track The 14 papers presented here from this track were selected from 30 submissions These papers are present in the following volume Part VIII Applied Data Science Track The 56 full papers presented here from this track were carefully reviewed and selected from 224 submissions These papers are present in the following volumes Part IX and Part X **Machine Learning and Knowledge Discovery in Databases. Research Track** Albert Bifet,Jesse Davis,Tomas Krilavičius,Meelis Kull,Eirini Ntoutsi,Indrė Žliobaitė,2024-08-29 This multi volume set LNAI 14941 to LNAI 14950 constitutes the refereed proceedings of the European Conference on Machine Learning and Knowledge Discovery in Databases ECML PKDD 2024 held in Vilnius Lithuania in September 2024 The papers presented in these proceedings are from the following three conference tracks Research Track The 202 full papers presented here from this track were carefully reviewed and selected from 826 submissions These papers are present in the following volumes Part I II III IV V VI VII VIII Demo Track The 14 papers presented here from this track were selected from 30 submissions These papers are present in the following volume Part VIII Applied Data Science Track The 56 full papers presented here from this track were carefully reviewed and selected from 224 submissions These papers are present in the following volumes Part IX and Part X

Machine Learning: ECML 2006 Johannes Fürnkranz,Tobias Scheffer,Myra Spiliopoulou,2006-09-21 This book constitutes the refereed proceedings of the 17th European Conference on Machine Learning ECML 2006 held jointly with PKDD 2006 The book presents 46 revised full papers and 36 revised short papers together with abstracts of 5 invited talks carefully reviewed and selected from 564 papers submitted The papers present a wealth of new results in the area and address all current issues in machine learning **Machine Learning and Knowledge Discovery in Databases. Research Track** Albert Bifet,Jesse Davis,Tomas Krilavičius,Meelis Kull,Eirini Ntoutsi,Indrė Žliobaitė,2024-08-30 This multi volume set LNAI 14941 to LNAI 14950 constitutes the refereed proceedings of the European Conference on Machine Learning and Knowledge Discovery in Databases ECML PKDD 2024 held in Vilnius Lithuania in September 2024 The papers presented in these proceedings are from the following three conference tracks Research Track The 202 full papers presented here from this

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Machine Learning and Knowledge Discovery in Databases. Research Track Albert Bifet,Jesse Davis,Tomas Krilavičius,Meelis Kull,Eirini Ntoutsi,Indrė Žliobaitė,2024-09-01 This multi volume set LNAI 14941 to LNAI 14950 constitutes the refereed proceedings of the European Conference on Machine Learning and Knowledge Discovery in Databases ECML PKDD 2024 held in Vilnius Lithuania in September 2024 The papers presented in these proceedings are from the following three conference tracks Research Track The 202 full papers presented here from this track were carefully reviewed and selected from 826 submissions These papers are present in the following volumes Part I II III IV V VI VII VIII Demo Track The 14 papers presented here from this track were selected from 30 submissions These papers are present in the following volume Part VIII Applied Data Science Track The 56 full papers presented here from this track were carefully reviewed and selected from 224 submissions These papers are present in the following volumes Part IX and Part X

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the following volume Part VIII Applied Data Science Track The 56 full papers presented here from this track were carefully reviewed and selected from 224 submissions These papers are present in the following volumes Part IX and Part X

Machine Learning and Knowledge Discovery in Databases Massih-Reza Amini,Stéphane Canu,Asja Fischer,Tias Guns,Petra Kralj Novak,Grigorios Tsoumakas,2023-03-17 The multi volume set LNAI 13713 until 13718 constitutes the refereed proceedings of the European Conference on Machine Learning and Knowledge Discovery in Databases ECML PKDD 2022 which took place in Grenoble France in September 2022 The 236 full papers presented in these proceedings were carefully reviewed and selected from a total of 1060 submissions In addition the proceedings include 17 Demo Track contributions The volumes are organized in topical sections as follows Part I Clustering and dimensionality reduction anomaly detection interpretability and explainability ranking and recommender systems transfer and multitask learning Part II Networks and graphs knowledge graphs social network analysis graph neural networks natural language processing and text mining conversational systems Part III Deep learning robust and adversarial machine learning generative models computer vision meta learning neural architecture search Part IV Reinforcement learning multi agent reinforcement learning bandits and online learning active and semi supervised learning private and federated learning Part V Supervised learning probabilistic inference optimal transport optimization quantum hardware sustainability Part VI Time series financial machine learning applications applications transportation demo track *Machine Learning: ECML 2001* Luc de Raedt,Peter Flach,2001-08-23 This book constitutes the refereed proceedings of the 12th European Conference on Machine Learning ECML 2001 held in Freiburg Germany in September 2001 The 50 revised full papers presented together with four invited contributions were carefully reviewed and selected from a total of 140 submissions Among the topics covered are classifier systems naive Bayes classification rule learning decision tree based classification Web mining equation discovery inductive logic programming text categorization agent learning backpropagation reinforcement learning sequence prediction sequential decisions classification learning sampling and semi supervised learning *Machine Learning and Knowledge Discovery in Databases* Frank Hutter,Kristian Kersting,Jefrey Lijffijt,Isabel Valera,2021-02-24 The 5 volume proceedings LNAI 12457 until 12461 constitutes the refereed proceedings of the European Conference on Machine Learning and Knowledge Discovery in Databases ECML PKDD 2020 which was held during September 14 18 2020 The conference was planned to take place in Ghent Belgium but had to change to an online format due to the COVID 19 pandemic The 232 full papers and 10 demo papers presented in this volume were carefully reviewed and selected for inclusion in the proceedings The volumes are organized in topical sections as follows Part I Pattern Mining clustering privacy and fairness social network analysis and computational social science dimensionality reduction and autoencoders domain adaptation sketching sampling and binary projections graphical models and causality spatio temporal data and recurrent neural networks collaborative filtering and matrix completion Part II deep learning optimization and theory active learning adversarial learning federated

learning Kernel methods and online learning partial label learning reinforcement learning transfer and multi task learning Bayesian optimization and few shot learning Part III Combinatorial optimization large scale optimization and differential privacy boosting and ensemble methods Bayesian methods architecture of neural networks graph neural networks Gaussian processes computer vision and image processing natural language processing bioinformatics Part IV applied data science recommendation applied data science anomaly detection applied data science Web mining applied data science transportation applied data science activity recognition applied data science hardware and manufacturing applied data science spatiotemporal data Part V applied data science social good applied data science healthcare applied data science e commerce and finance applied data science computational social science applied data science sports demo track

Machine Learning and Knowledge Discovery in Databases: Research Track Danaï Koutra, Claudia Plant, Manuel Gomez Rodriguez, Elena Baralis, Francesco Bonchi, 2023-09-17 The multi volume set LNAI 14169 until 14175 constitutes the refereed proceedings of the European Conference on Machine Learning and Knowledge Discovery in Databases ECML PKDD 2023 which took place in Turin Italy in September 2023 The 196 papers were selected from the 829 submissions for the Research Track and 58 papers were selected from the 239 submissions for the Applied Data Science Track The volumes are organized in topical sections as follows Part I Active Learning Adversarial Machine Learning Anomaly Detection Applications Bayesian Methods Causality Clustering Part II Computer Vision Deep Learning Fairness Federated Learning Few shot learning Generative Models Graph Contrastive Learning Part III Graph Neural Networks Graphs Interpretability Knowledge Graphs Large scale Learning Part IV Natural Language Processing Neuro Symbolic Learning Optimization Recommender Systems Reinforcement Learning Representation Learning Part V Robustness Time Series Transfer and Multitask Learning Part VI Applied Machine Learning Computational Social Sciences Finance Hardware and Systems Healthcare Human Computer Interaction Recommendation and Information Retrieval Part VII Sustainability Climate and Environment Transportation Urban Planning Demo

ECML PKDD 2020 Workshops Irena Koprinska, Michael Kamp, Annalisa Appice, Corrado Loglisci, Luiza Antonie, Albrecht Zimmermann, Riccardo Guidotti, Özlem Özgöbek, Rita P. Ribeiro, Ricard Gavaldà, João Gama, Linara Adilova, Yamuna Krishnamurthy, Pedro M. Ferreira, Donato Malerba, Ibéria Medeiros, Michelangelo Ceci, Giuseppe Manco, Elio Masciari, Zbigniew W. Ras, Peter Christen, Eirini Ntoutsi, Erich Schubert, Arthur Zimek, Anna Monreale, Przemysław Biecek, Salvatore Rinzivillo, Benjamin Kille, Andreas Lommatzsch, Jon Atle Gulla, 2021-02-01 This volume constitutes the refereed proceedings of the workshops which complemented the 20th Joint European Conference on Machine Learning and Knowledge Discovery in Databases ECML PKDD held in September 2020 Due to the COVID 19 pandemic the conference and workshops were held online The 43 papers presented in volume were carefully reviewed and selected from numerous submissions The volume presents the papers that have been accepted for the following workshops 5th Workshop on Data Science for Social Good SoGood 2020 Workshop on Parallel Distributed and Federated Learning PDFL 2020 Second

Workshop on Machine Learning for Cybersecurity MLCS 2020 9th International Workshop on New Frontiers in Mining Complex Patterns NFMCP 2020 Workshop on Data Integration and Applications DINA 2020 Second Workshop on Evaluation and Experimental Design in Data Mining and Machine Learning EDML 2020 Second International Workshop on eXplainable Knowledge Discovery in Data Mining XKDD 2020 8th International Workshop on News Recommendation and Analytics INRA 2020 The papers from INRA 2020 are published open access and licensed under the terms of the Creative Commons Attribution 4.0 International License [Machine Learning and Knowledge Discovery in Databases](#) Massih-Reza Amini,Stéphane Canu,Asja Fischer,Tias Guns,Petra Kralj Novak,Grigorios Tsoumakas,2023-03-16 The multi volume set LNAI 13713 until 13718 constitutes the refereed proceedings of the European Conference on Machine Learning and Knowledge Discovery in Databases ECML PKDD 2022 which took place in Grenoble France in September 2022 The 236 full papers presented in these proceedings were carefully reviewed and selected from a total of 1060 submissions In addition the proceedings include 17 Demo Track contributions The volumes are organized in topical sections as follows Part I Clustering and dimensionality reduction anomaly detection interpretability and explainability ranking and recommender systems transfer and multitask learning Part II Networks and graphs knowledge graphs social network analysis graph neural networks natural language processing and text mining conversational systems Part III Deep learning robust and adversarial machine learning generative models computer vision meta learning neural architecture search Part IV Reinforcement learning multi agent reinforcement learning bandits and online learning active and semi supervised learning private and federated learning Part V Supervised learning probabilistic inference optimal transport optimization quantum hardware sustainability Part VI Time series financial machine learning applications applications transportation demo track

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