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LNAI 3201

Machine Learning: ECML 2004

15th European Conference on Machine Learning
Pisa, Italy, September 2004
Proceedings



 Springer

Machine Learning Ecml 2004 15th European Conference
On Machine Learning Pisa Italy September 2024 2004
Proceedings

**Inês Dutra, Mykola Pechenizkiy, Paulo
Cortez, Sepideh Pashami, Alípio M.
Jorge, Carlos Soares, Pedro H.
Abreu, João Gama**

Machine Learning Ecml 2004 15th European Conference On Machine Learning Pisa Italy September 2004 2004 Proceedings:

Machine Learning: ECML 2004 Jean-Francois Boulicaut, 2004-09-07 This book constitutes the refereed proceedings of the 15th European Conference on Machine Learning ECML 2004 held in Pisa Italy in September 2004 jointly with PKDD 2004 The 45 revised full papers and 6 revised short papers presented together with abstracts of 5 invited talks were carefully reviewed and selected from 280 papers submitted to ECML and 107 papers submitted to both ECML and PKDD The papers present a wealth of new results in the area and address all current issues in machine learning

Proceedings of the Future Technologies Conference (FTC) 2024, Volume 1 Kohei Arai, 2024-11-04 This book covers proceedings of the Future Technologies Conference FTC 2024 which showcase a collection of thoroughly researched studies presented at the ninth Future Technologies Conference held in London the UK This premier annual event highlights groundbreaking research in artificial intelligence computer vision data science computing ambient intelligence and related fields With 476 submissions FTC 2024 gathers visionary minds to explore innovative solutions to today s most pressing challenges The 173 selected papers represent cutting edge advancements that foster vital conversations and future collaborations in the realm of information technologies The authors extend their deepest gratitude to all contributors reviewers and participants for making FTC 2024 an unparalleled success The authors hope this volume inspires and informs its readers encouraging continued exploration and innovation in future technologies

ECML/PKDD 2004 Johannes Fürnkranz, 2004 **Machine Learning and Knowledge Discovery in Databases. Research Track** Rita P. Ribeiro, Bernhard Pfahringer, Nathalie Japkowicz, Pedro Larrañaga, Alípio M. Jorge, Carlos Soares, Pedro H. Abreu, João Gama, 2025-09-29 This multi volume set LNAI 16013 to LNAI 16022 constitutes the refereed proceedings of the European Conference on Machine Learning and Knowledge Discovery in Databases ECML PKDD 2025 held in Porto Portugal September 15 19 2025 if supportLineBreakNewLine endif The 300 full papers presented here together with 15 demo papers were carefully reviewed and selected from 1253 submissions The papers presented in these proceedings are from the following three conference tracks The Research Track in Volume LNAI 16013 16020 refers about Anomaly Outlier Detection Bias Fairness Causality Clustering Data Challenges Diffusion Models Ensemble Learning Graph Neural Networks Graphs Networks Healthcare Bioinformatics Images Computer Vision Interpretability Explainability Large Language Models Learning Theory Multimodal Data Neuro Symbolic Approaches Optimization Privacy Security Recommender Systems Reinforcement Learning Representation Learning Resource Efficiency Robustness Uncertainty Sequence Models Streaming Spatiotemporal Data Text Natural Language Processing Time Series and Transfer Multitask Learning The Applied Data Science Track in Volume LNAI 16020 16022 refers about Agriculture Food and Earth Sciences Education Engineering and Technology Finance Economy Management or Marketing Health Biology Bioinformatics or Chemistry Industry 4 0 5 0 Manufacturing Smart Cities Transportation and Utilities e g Energy Sports and

Web and Social Networks The Demo Track in LNAI 16022 showcased practical applications and prototypes accepting 15 papers from a total of 30 submissions These proceedings cover the papers accepted in the research and applied data science tracks

Machine Learning and Knowledge Discovery in Databases. Applied Data Science Track and Demo Track Inês Dutra, Mykola Pechenizkiy, Paulo Cortez, Sepideh Pashami, Arian Pasquali, Nuno Moniz, Alípio M. Jorge, Carlos Soares, Pedro H. Abreu, João Gama, 2025-10-01 This multi volume set LNAI 16013 to LNAI 16022 constitutes the refereed proceedings of the European Conference on Machine Learning and Knowledge Discovery in Databases ECML PKDD 2025 held in Porto Portugal September 15 19 2025 if supportLineBreakNewLine endif The 300 full papers presented here together with 15 demo papers were carefully reviewed and selected from 1253 submissions The papers presented in these proceedings are from the following three conference tracks The Research Track in Volume LNAI 16013 16020 refers about Anomaly Outlier Detection Bias Fairness Causality Clustering Data Challenges Diffusion Models Ensemble Learning Graph Neural Networks Graphs Networks Healthcare Bioinformatics Images Computer Vision Interpretability Explainability Large Language Models Learning Theory Multimodal Data Neuro Symbolic Approaches Optimization Privacy Security Recommender Systems Reinforcement Learning Representation Learning Resource Efficiency Robustness Uncertainty Sequence Models Streaming Spatiotemporal Data Text Natural Language Processing Time Series and Transfer Multitask Learning The Applied Data Science Track in Volume LNAI 16020 16022 refers about Agriculture Food and Earth Sciences Education Engineering and Technology Finance Economy Management or Marketing Health Biology Bioinformatics or Chemistry Industry 4 0 5 0 Manufacturing Smart Cities Transportation and Utilities e g Energy Sports and Web and Social Networks The Demo Track in LNAI 16022 showcased practical applications and prototypes accepting 15 papers from a total of 30 submissions These proceedings cover the papers accepted in the research and applied data science tracks

Machine Learning and Knowledge Discovery in Databases. Research Track Rita P. Ribeiro, Bernhard Pfahringer, Nathalie Japkowicz, Pedro Larrañaga, Alípio M. Jorge, Carlos Soares, Pedro H. Abreu, João Gama, 2025-10-02 This multi volume set LNAI 16013 to LNAI 16022 constitutes the refereed proceedings of the European Conference on Machine Learning and Knowledge Discovery in Databases ECML PKDD 2025 held in Porto Portugal September 15 19 2025 if supportLineBreakNewLine endif The 300 full papers presented here together with 15 demo papers were carefully reviewed and selected from 1253 submissions The papers presented in these proceedings are from the following three conference tracks The Research Track in Volume LNAI 16013 16020 refers about Anomaly Outlier Detection Bias Fairness Causality Clustering Data Challenges Diffusion Models Ensemble Learning Graph Neural Networks Graphs Networks Healthcare Bioinformatics Images Computer Vision Interpretability Explainability Large Language Models Learning Theory Multimodal Data Neuro Symbolic Approaches Optimization Privacy Security Recommender Systems Reinforcement Learning Representation Learning Resource Efficiency Robustness Uncertainty Sequence Models Streaming Spatiotemporal Data Text

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Machine Learning and Knowledge Discovery in Databases. Applied Data Science Track Inês Dutra, Mykola Pechenizkiy, Paulo Cortez, Sepideh Pashami, Alípio M. Jorge, Carlos Soares, Pedro H. Abreu, João Gama, 2025-09-28 This multi volume set LNAI 16013 to LNAI 16022 constitutes the refereed proceedings of the European Conference on Machine Learning and Knowledge Discovery in Databases ECML PKDD 2025 held in Porto Portugal September 15 19 2025 if supportLineBreakNewLine endif The 300 full papers presented here together with 15 demo papers were carefully reviewed and selected from 1253 submissions The papers presented in these proceedings are from the following three conference tracks The Research Track in Volume LNAI 16013 16020 refers about Anomaly Outlier Detection Bias Fairness Causality Clustering Data Challenges Diffusion Models Ensemble Learning Graph Neural Networks Graphs Networks Healthcare Bioinformatics Images Computer Vision Interpretability Explainability Large Language Models Learning Theory Multimodal Data Neuro Symbolic Approaches Optimization Privacy Security Recommender Systems Reinforcement Learning Representation Learning Resource Efficiency Robustness Uncertainty Sequence Models Streaming Spatiotemporal Data Text Natural Language Processing Time Series and Transfer Multitask Learning The Applied Data Science Track in Volume LNAI 16020 16022 refers about Agriculture Food and Earth Sciences Education Engineering and Technology Finance Economy Management or Marketing Health Biology Bioinformatics or Chemistry Industry 4 0 5 0 Manufacturing Smart Cities Transportation and Utilities e g Energy Sports and Web and Social Networks The Demo Track in LNAI 16022 showcased practical applications and prototypes accepting 15 papers from a total of 30 submissions These proceedings cover the papers accepted in the research and applied data science tracks

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 fth 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 di erent paper submissions were received for both events which maintains the high s mission 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 scienti c work required a tremendous e ort 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

Beside the core technical program ECML and PKDD had 6 invited speakers 10 workshops 8 tutorials and a Knowledge Discovery Challenge

Machine Learning and Knowledge Discovery in Databases. Research Track Rita P. Ribeiro, Bernhard Pfahringer, Nathalie Japkowicz, Pedro Larrañaga, Alípio M. Jorge, Carlos Soares, Pedro H. Abreu, João Gama, 2025-09-26 This multi volume set LNAI 16013 to LNAI 16022 constitutes the refereed proceedings of the European Conference on Machine Learning and Knowledge Discovery in Databases ECML PKDD 2025 held in Porto Portugal September 15 19 2025 if supportLineBreakNewLine endif The 300 full papers presented here together with 15 demo papers were carefully reviewed and selected from 1253 submissions The papers presented in these proceedings are from the following three conference tracks The Research Track in Volume LNAI 16013 16020 refers about Anomaly Outlier Detection Bias Fairness Causality Clustering Data Challenges Diffusion Models Ensemble Learning Graph Neural Networks Graphs Networks Healthcare Bioinformatics Images Computer Vision Interpretability Explainability Large Language Models Learning Theory Multimodal Data Neuro Symbolic Approaches Optimization Privacy Security Recommender Systems Reinforcement Learning Representation Learning Resource Efficiency Robustness Uncertainty Sequence Models Streaming Spatiotemporal Data Text Natural Language Processing Time Series and Transfer Multitask Learning The Applied Data Science Track in Volume LNAI 16020 16022 refers about Agriculture Food and Earth Sciences Education Engineering and Technology Finance Economy Management or Marketing Health Biology Bioinformatics or Chemistry Industry 4 0 5 0 Manufacturing Smart Cities Transportation and Utilities e g Energy Sports and Web and Social Networks The Demo Track in LNAI 16022 showcased practical applications and prototypes accepting 15 papers from a total of 30 submissions These proceedings cover the papers accepted in the research and applied data science tracks

Machine Learning and Knowledge Discovery in Databases. Research Track Rita P. Ribeiro, Bernhard Pfahringer, Nathalie Japkowicz, Pedro Larrañaga, Alípio M. Jorge, Carlos Soares, Pedro H. Abreu, João Gama, 2025-09-30 This multi volume set LNAI 16013 to LNAI 16022 constitutes the refereed proceedings of the European Conference on Machine Learning and Knowledge Discovery in Databases ECML PKDD 2025 held in Porto Portugal September 15 19 2025 if supportLineBreakNewLine endif The 300 full papers presented here together with 15 demo papers were carefully reviewed and selected from 1253 submissions The papers presented in these proceedings are from the following three conference tracks The Research Track in Volume LNAI 16013 16020 refers about Anomaly Outlier Detection Bias Fairness Causality Clustering Data Challenges Diffusion Models Ensemble Learning Graph

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Ribeiro, Inês Dutra, Mykola Pechenizkiy, Paulo Cortez, Sepideh Pashami, Alípio M. Jorge, Carlos Soares, Pedro H. Abreu, João Gama, 2025-10-03 This multi volume set LNAI 16013 to LNAI 16022 constitutes the refereed proceedings of the European Conference on Machine Learning and Knowledge Discovery in Databases ECML PKDD 2025 held in Porto Portugal September 15 19 2025 if supportLineBreakNewLine endif The 300 full papers presented here together with 15 demo papers were carefully reviewed and selected from 1253 submissions The papers presented in these proceedings are from the following three conference tracks The Research Track in Volume LNAI 16013 16020 refers about Anomaly Outlier Detection Bias Fairness Causality Clustering Data Challenges Diffusion Models Ensemble Learning Graph Neural Networks Graphs Networks Healthcare Bioinformatics Images Computer Vision Interpretability Explainability Large Language Models Learning Theory Multimodal Data Neuro Symbolic Approaches Optimization Privacy Security Recommender Systems Reinforcement Learning Representation Learning Resource Efficiency Robustness Uncertainty Sequence Models Streaming Spatiotemporal Data Text Natural Language Processing Time Series and Transfer Multitask Learning The Applied Data Science Track in Volume LNAI 16020 16022 refers about Agriculture Food and Earth Sciences Education Engineering and Technology Finance Economy Management or Marketing Health Biology Bioinformatics or Chemistry Industry 4 0 5 0 Manufacturing Smart Cities Transportation and Utilities e g Energy Sports and Web and Social Networks The Demo Track in LNAI 16022 showcased practical applications and prototypes accepting 15 papers from a total of 30 submissions These proceedings cover the papers accepted in the research and applied data science tracks

Machine Learning and Principles and Practice of Knowledge Discovery in Databases Rosa Meo, Fabrizio Silvestri, 2025-01-01 The five volume

set CCIS 2133 2137 constitutes the refereed proceedings of the workshops held in conjunction with the Joint European Conference on Machine Learning and Knowledge Discovery in Databases ECML PKDD 2023 which took place in Turin Italy during September 18 22 2023 The 200 full papers presented in these proceedings were carefully reviewed and selected from 515 submissions The papers have been organized in the following tracks Part I Advances in Interpretable Machine Learning and Artificial Intelligence Joint Workshop and Tutorial BIAS 2023 3rd Workshop on Bias and Fairness in AI Biased Data in Conversational Agents Explainable Artificial Intelligence From Static to Dynamic ML Law and Society Part II RKDE 2023 1st International Tutorial and Workshop on Responsible Knowledge Discovery in Education SoGood 2023 8th Workshop on Data Science for Social Good Towards Hybrid Human Machine Learning and Decision Making HLDM Uncertainty meets explainability in machine learning Workshop Deep Learning and Multimedia Forensics Combating fake media and misinformation Part III XAI TS Explainable AI for Time Series Advances and Applications XKDD 2023 5th International Workshop on eXplainable Knowledge Discovery in Data Mining Deep Learning for Sustainable Precision Agriculture Knowledge Guided Machine Learning MACLEAN MACHine Learning for EArth ObservatioN MLG Mining and Learning with Graphs Neuro Explicit AI and Expert Informed ML for Engineering and Physical Sciences New Frontiers in Mining Complex Patterns Part IV PharML Machine Learning for Pharma and Healthcare Applications Simplification Compression Efficiency and Frugality for Artificial intelligence Workshop on Uplift Modeling and Causal Machine Learning for Operational Decision Making 6th Workshop on AI in Aging Rehabilitation and Intelligent Assisted Living ARIAL Adapting to Change Reliable Multimodal Learning Across Domains AI4M AI for Manufacturing Part V Challenges and Opportunities of Large Language Models in Real World Machine Learning Applications Deep learning meets Neuromorphic Hardware Discovery challenge ITEM IoT Edge and Mobile for Embedded Machine Learning LIMBO LearnIng and Mining for BLockchains Machine Learning for Cybersecurity MLCS 2023 MIDAS The 8th Workshop on MIning DAta for financial applicationS Workshop on Advancements in Federated Learning

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Learning and Multimedia Forensics Combating fake media and misinformation Part III XAI TS Explainable AI for Time Series
 Advances and Applications XKDD 2023 5th International Workshop on eXplainable Knowledge Discovery in Data Mining
 Deep Learning for Sustainable Precision Agriculture Knowledge Guided Machine Learning MACLEAN MAChine Learning for
 EArth ObservatioN MLG Mining and Learning with Graphs Neuro Explicit AI and Expert Informed ML for Engineering and
 Physical Sciences New Frontiers in Mining Complex Patterns Part IV PharML Machine Learning for Pharma and Healthcare
 Applications Simplification Compression Efficiency and Frugality for Artificial intelligence Workshop on Uplift Modeling and
 Causal Machine Learning for Operational Decision Making 6th Workshop on AI in Aging Rehabilitation and Intelligent
 Assisted Living ARIAL Adapting to Change Reliable Multimodal Learning Across Domains AI4M AI for Manufacturing Part V
 Challenges and Opportunities of Large Language Models in Real World Machine Learning Applications Deep learning meets
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 and Mining for BLockchains Machine Learning for Cybersecurity MLCS 2023 MIDAS The 8th Workshop on MIning DAta for
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 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. Research Track** Bernhard Pfahringer, Nathalie Japkowicz, Pedro Larrañaga, Rita P . Ribeiro, Alípio
 Mário Jorge, Carlos Soares, Joao Gama, Pedro Henriques Abreu, 2025-11-07 This multi volume set LNAI 16013 to LNAI 16022
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Mielikainen and Hugo Zaragoza welcomed distinguished speakers from the ML and DM industry: Rakesh Agrawal, Mayank Bawa, Ignasi Belda, Michael Berthold, Jos   Luis Fl  rez, Thore Graepel, and Alejandro Jaimes. The conference also featured a data discovery challenge organized by Andr  s Benczur, Carlos Castillo, Zolt  n Gy  gyi, and Julien Mase  s.

The Enigmatic Realm of **Machine Learning Ecml 2004 15th European Conference On Machine Learning Pisa Italy September 2024 2004 Proceedings**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Machine Learning Ecml 2004 15th European Conference On Machine Learning Pisa Italy September 2024 2004 Proceedings** a literary masterpiece penned by a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those who partake in its reading experience.

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