

LIST OF PUBLICATIONS (AT 5 MAY 2021)

Year: 2021

- **Automatic Assignment of ICD-10 Codes to Diagnostic Texts using Transformers Based Techniques.**
Mihai Horia Popescu, Kevin Roitero, Stefano Travasci, and Vincenzo Della Mea.
Proceedings of the 9th IEEE International Conference on Healthcare Informatics (ICHI2021). Victoria, British Columbia, Canada. August 9th-12th, 2021.

Year: 2020

- **Cheap IR Evaluation: Fewer Topics, No Relevance Judgements, and Crowdsourced Assessments.**
Kevin Roitero.
SIGIR Forum. December 2020, Volume 54, Number 2.
- **Underlying Cause of Death Identification from Death Certificates using Reverse Coding to Text and a NLP Based Deep Learning Approach**
Vincenzo Della Mea, Mihai Horia Popescu, and Kevin Roitero.
Informatics in Medicine Unlocked. Journal Rank: Scimago Q3 (2020).
- **Detection of HER2 from Haematoxylin-Eosin Slides Through a Cascade of Deep Learning Classifiers via Multi-Instance Learning**
David La Barbera, António Polónia, Kevin Roitero, Eduardo Conde-Sousa, and Vincenzo Della Mea.
Journal of Imaging, Special Issue “Deep Learning on Medical Image Analysis”.
- **The COVID-19 Infodemic: Can the Crowd Judge Recent Misinformation Objectively?**
Kevin Roitero, Michael Soprano, Beatrice Portelli, Damiano Spina, Vincenzo Della Mea, Giuseppe Serra, Stefano Mizzaro, and Gianluca Demartini
Proceedings of the 29th ACM International Conference on Information and Knowledge Management (CIKM2020). Online. October 19-23, 2020. Conference Rank: Core A, GGS A+.
- **Underlying Cause of Death Identification from Death Certificates via Categorical Embeddings and Convolutional Neural Networks**
Vincenzo Della Mea, Mihai Horia Popescu, Kevin Roitero
Proceedings of the 8th IEEE International Conference on Healthcare Informatics (ICHI2020). Oldenburg, Germany. Nov 30 – Dec 3 2020.
- **Can The Crowd Identify Misinformation Objectively? The Effects of Judgments Scale and Assessor’s Bias.**
Kevin Roitero, Michael Soprano, Shaoyang Fan, Damiano Spina, Stefano Mizzaro, and Gianluca Demartini
Proceedings of the 43st International ACM SIGIR Conference on Research and Development in Information Retrieval. Xi’an, China. July 25-30, 2020. Conference Rank: Core A*, GGS A++.
- **Twitter goes to the Doctor: Detecting Medical Tweets using Machine Learning and BERT**
Kevin Roitero, Cristian Bozzato, Vincenzo Della Mea, Stefano Mizzaro, and Giuseppe Serra.
Proceedings of Semantic Indexing and Information Retrieval for Health (SIIRH2020) Workshop, in conjunction with the 42nd European Conference on IR Research, ECIR 2020, Lisbon, Portugal, April 14-17, 2020.
- **Leveraging Behavioral Heterogeneity Across Markets for Cross-Market Training of Recommender Systems**
Kevin Roitero, Ben Carterette, Rishabh Mehrotra and Mounia Lalmas.
Proceedings of the The 10th International Workshop on Location and the Web in conjunction with The Web Conference.
- **Crowdsourcing Truthfulness: The Impact of Judgment Scale and Assessor Bias**
David La Barbera, Kevin Roitero, Damiano Spina, Gianluca Demartini, and Stefano Mizzaro.
Proceedings of the 42nd European Conference on IR Research, ECIR 2020, Lisbon, Portugal, April 14-17, 2020. Conference Rank: Core A, GGS A-. **Best Short Paper Award.**
- **Effectiveness Evaluation Without Human Relevance Judgments: A Systematic Analysis of Existing Methods and of their Combinations**
Kevin Roitero, Andrea Brunello, Giuseppe Serra, and Stefano Mizzaro.
Information Processing and Management (IPM). Journal Rank: Scimago Q1 (2020).
- **Crowd Worker Strategies in Relevance Judgment Tasks.**
Lei Han, Eddy Maddalena, Alessandro Checco, Cristina Sarasua, Ujwal Gadiraju, Kevin Roitero, and Gianluca Demartini

Proceedings of the 13th ACM International Conference on Web Search and Data Mining, WSDM 2020, Houston, Texas. February 3-7, 2020. Conference Rank: Core A*, GGS A+.

Year: 2019

- **The Impact of Task Abandonment in Crowdsourcing.**
Lei Han, Kevin Roitero, Ujwal Gadiraju, Cristina Sarasua, Alessandro Checco, Eddy Maddalena, and Gianluca Demartini.
IEEE Transactions on Knowledge and Data Engineering (TKDE). Journal Rank: Scimago Q1 (2019).
- **Bias and Fairness in Effectiveness Evaluation by Means of Network Analysis and Mixture Models.**
Michael Soprano, Kevin Roitero, and Stefano Mizzaro.
Proceedings of the 10th Italian Information Retrieval Workshop, Padua, Italy, September 16-18, 2019.
- **Towards Stochastic Simulations of Relevance Profiles.**
Kevin Roitero, Andrea Brunello, Julián Urbano and Stefano Mizzaro.
Proceedings of the 28th ACM International Conference on Information and Knowledge Management (CIKM2019). Beijing, China. November 3-7, 2019. Conference Rank: Core A, GGS A+.
- **On Transforming Relevance Scales.**
Lei Han, Kevin Roitero, Eddy Maddalena, Stefano Mizzaro and Gianluca Demartini.
Proceedings of the 28th ACM International Conference on Information and Knowledge Management (CIKM2019). Beijing, China. November 3-7, 2019. Conference Rank: Core A*, GGS A++.
- **HITS Hits Readersourcing: Validating Peer Review Alternatives Using Network Analysis.**
Michael Soprano, Kevin Roitero, and Stefano Mizzaro.
Proceedings of the 4th Joint Workshop on Bibliometric-enhanced Information Retrieval and Natural Language Processing for Digital Libraries (BIRNDL 2019).
- **Fewer Topics? A Million Topics? Both?! On Topics Subsets in Test Collections.**
Kevin Roitero, J. Shane Culpepper, Mark Sanderson, Falk Scholer, and Stefano Mizzaro
Information Retrieval Journal (IRJ).
- **On Topic Difficulty in IR Evaluation: The Effect of Corpora, Systems, and System Components.**
Shane Culpepper, Oren Kurland, Stefano Mizzaro, Kevin Roitero and Fabio Zampieri.
Proceedings of the 42nd International ACM SIGIR Conference on Research and Development in Information Retrieval. Paris, France. July 21-25, 2019. Conference Rank: Core A*, GGS A++.
- **All Those Wasted Hours: On Task Abandonment in Crowdsourcing.**
Lei Han, Kevin Roitero, Ujwal Gadiraju, Cristina Sarasua, Alessandro Checco, Eddy Maddalena and Gianluca Demartini.
ACM International Conference on Web Search and Data Mining, WSDM 2019, Melbourne, Australia. Conference Rank: Core A*, GGS A+.

Year: 2018

- **How Many Truth Levels? Six? One Hundred? Even more? Validating Truthfulness of Statements via Crowdsourcing.**
Kevin Roitero, Damiano Spina, Gianluca Demartini, and Stefano Mizzaro.
RDSM 2018 : Workshop on Rumours and Deception in Social Media.
- **Reproduce. Generalize. Extend. On Information Retrieval Evaluation without Relevance Judgments.**
Kevin Roitero, Marco Passon, Giuseppe Serra, and Stefano Mizzaro.
ACM Journal of Data and Information Quality (JDIQ). Journal Rank: Scimago Q2 (2018).
- **Reproduce and Improve: An Evolutionary Approach to Select a Few Good Topics for Information Retrieval Evaluation.**
Kevin Roitero, Michael Soprano, Andrea Brunello, and Stefano Mizzaro.
ACM Journal of Data and Information Quality (JDIQ). Journal Rank: Scimago Q2 (2018).
- **On Fine-Grained Relevance Scales.**
Kevin Roitero, Eddy Maddalena, Gianluca Demartini and Stefano Mizzaro.
Proceedings of the 41st International ACM SIGIR Conference on Research and Development in Information Retrieval. Ann Arbor Michigan, U.S.A. July 8-12, 2018. Conference Rank: Core A*, GGS A++.
- **Query Performance Prediction and Effectiveness Evaluation Without Relevance Judgments: Two Sides of the Same Coin.**
Stefano Mizzaro, Josiane Mothe, Kevin Roitero, and Md Zia Ullah.
Proceedings of the 41st International ACM SIGIR Conference on Research and Development in Information Retrieval. Ann Arbor Michigan, U.S.A. July 8-12, 2018. Conference Rank: Core A*, GGS A++.
- **IRevalOO: An Object Oriented Framework for Retrieval Evaluation.**
Kevin Roitero, Eddy Maddalena, Ponte Yannick and Stefano Mizzaro.

Proceedings of the 41st International ACM SIGIR Conference on Research and Development in Information Retrieval. Ann Arbor Michigan, U.S.A. July 8-12, 2018. Conference Rank: Core A*, GGS A++.

- **Effectiveness Evaluation with a Subset of Topics: A Practical Approach.**

Kevin Roitero, Michael Soprano and Stefano Mizzaro.

Proceedings of the 41st International ACM SIGIR Conference on Research and Development in Information Retrieval. Ann Arbor Michigan, U.S.A. July 8-12, 2018. Conference Rank: Core A*, GGS A++.

- **CHeap and Engineered Evaluation of Retrieval Systems.**

Kevin Roitero.

Doctoral Consortium of the 41st International ACM SIGIR Conference on Research and Development in Information Retrieval. Ann Arbor Michigan, U.S.A. July 8-12, 2018. Conference Rank: Core A*, GGS A++.

Year: 2017

- **Let's Agree to Disagree: Fixing Agreement Measures for Crowdsourcing.**

Alessandro Checco, Kevin Roitero, Eddy Maddalena, Gianluca Demartini and Stefano Mizzaro.

Proceedings of the The fifth AAAI Conference on Human Computation and Crowdsourcing, AAAI HCOMP2017. Quebec City, Canada. October 24-26 2017.

- **Considering Assessor Agreement in IR Evaluation.**

Eddy Maddalena, Kevin Roitero, Gianluca Demartini and Stefano Mizzaro.

Proceedings of the 3rd ACM International Conference on the Theory of Information Retrieval, ICTIR2017. Amsterdam, Netherlands. October 1-4 2017.

- **Economic Evaluation of Recommender Systems: A Proposal.**

Kevin Roitero, Stefano Mizzaro, and Giuseppe Serra.

Proceedings of the 8th Italian Information Retrieval Workshop, Switzerland. June 05-07, 2017.

- **Do Easy Topics Predict Effectiveness Better Than Difficult Topics?**

Kevin Roitero, Eddy Maddalena, and Stefano Mizzaro.

Proceedings of the 39th European Conference on IR Research, ECIR 2017, Aberdeen, UK, April 8-13, 2017. Conference Rank: Core A, GGS A-.

Year: 2016

- **Improving the Efficiency of Retrieval Effectiveness Evaluation: Finding a Few Good Topics with Clustering?**

Kevin Roitero and Stefano Mizzaro.

Proceedings of the 7th Italian Information Retrieval Workshop, Venezia, Italy, May 30-31, 2016.