

Music Retrieval and Recommendation

References

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- (Arzt, Widmer; 2010) **Towards Effective 'Any-Time' Music Tracking**, Proceedings of the Starting AI Researchers' Symposium (STAIRS 2010), Lisbon, Portugal, 2010.
- (Aucouturier, Pachet; 2004) **Improving Timbre Similarity: How High's the Sky?**, Journal of Negative Results in Speech and Audio Sciences, 1(1), 2004.
- (Baccigalupo, Plaza, Donaldson; 2008) **Uncovering Affinity of Artists to Multiple Genres from Social Behaviour Data**, Proceedings of the 9th International Conference on Music Information Retrieval (ISMIR 2008), Philadelphia, September 2008.
- (Baumann, Hummel; 2003) **Using Cultural Metadata for Artist Recommendation**, Proceedings of the 3rd International Conference on Web Delivering of Music (WEDELMUSIC 2003), Leeds, UK, September 2003
- (Bertin-Mahieux, Eck, Maillet, Lamere; 2008) **Autotagger: A Model for Predicting Social Tags From Acoustic Features on Large Music Databases**, Journal of New Music Research, 37(2):115-135, 2008.
- (Breitschopf; 2013) **Personalized, Context-Aware Music Playlist Generation on Mobile Devices**. Master's thesis, Johannes Kepler University Linz, Austria, 2013.
- (Cano, Koppenberger; 2004) **The Emergence of Complex Network Patterns in Music Artist Networks**, Proceedings of the 5th International Symposium on Music Information Retrieval (ISMIR 2004), Barcelona, Spain, October 2004.
- (Casey, Veltkamp, Goto, Leman, Rhodes, Slaney; 2008) **Content-based music information retrieval: Current directions and future challenges**, Proceedings of the IEEE 96 (4), 668-696, 2008.
- (Celino, Turati, Della Valle, Cerizza; 2006) **Squiggle: a Semantic Search Engine at Work**, Proceedings of the 1st International Conference on Semantics And digital Media Technology (SAMT 2006), Athens, Greece, December 2006
- (Celma; 2010) **Music Recommendation and Discovery in the Long Tail – The Long Tail, Long Fail, and Long Play in the Digital Music Space**, Springer, 2010.
- (Celma, Cano, Herrera; 2006) **SearchSounds: An Audio Crawler Focused on Weblogs**, Proceedings of the 7th International Conference on Music Information Retrieval (ISMIR 2006), Victoria, Canada, October 2006.
- (Cooley, Tukey; 1965) **An Algorithm for the Machine Calculation of Complex Fourier Series**, Mathematics of Computation, 19(90): 297-301, 1965.

- (Dror, Koenigstein, Koren, Weimer; 2012) **The Yahoo! Music Dataset and KDD-Cup'11**, Journal of Machine Learning Research, 18:3-18, 2012.
- (Elliott, Tomlinson; 2006) **Personalsoundtrack: context-aware playlists that adapt to user pace**. CHI '06: Extended Abstracts on Human Factors in Computing Systems (CHI EA), New York, USA, 2006.
- (Ellis, Whitman, Berenzweig, Lawrence; 2002) **The Quest For Ground Truth in Musical Artist Similarity**, Proceedings of the 3rd International Conference on Music Information Retrieval (ISMIR 2002), Paris, France, October 2002.
- (Flexer, Schnitzer, Gasser, Pohle; 2010) **Combining Features Reduces Hubness in Audio Similarity**, Proceedings of the 11th International Society for Music Information Retrieval Conference (ISMIR), Utrecht, the Netherlands, 2010.
- (Fujishima; 1999) **Realtime chord recognition of musical sound: a system using Common Lisp Music**, Proceedings of the International Computer Music Conference (ICMC), Beijing, China, 1999.
- (Geleijnse, Korst; 2006) **Web-based Artist Categorization**, Proceedings of the 7th International Conference on Music Information Retrieval (ISMIR 2006), Victoria, Canada, October 2006.
- (Geleijnse, Schedl, Knees; 2007) **The Quest for Ground Truth in Musical Artist Tagging in the Social Web Era**, Proceedings of the 8th International Conference on Music Information Retrieval (ISMIR 2007), Vienna, Austria, September 2007.
- (Hauger, Schedl; 2012) **Exploring Geospatial Music Listening Patterns in Microblog Data**, Proceedings of the 10th International Workshop on Adaptive Multimedia Retrieval (AMR 2012), Copenhagen, Denmark, October 2012.
- (Hirjee, Brown; 2009) **Automatic Detection of Internal and Imperfect Rhymes in Rap Lyrics**, Proceedings of the 10th International Society for Music Information Retrieval Conference (ISMIR 2009), Kobe, Japan, October 2009.
- (Hirjee, Brown; 2009) **Rhyme Analyzer: An Analysis Tool for Rap Lyrics**, Proceedings of the 11th International Society for Music Information Retrieval Conference (ISMIR 2010), Late- Breaking/Demo Session. Utrecht, Ned, 2010
- (Hu, Downie, Ehmann; 2009) **Lyric Text Mining in Music Mood Classification**, Proceedings of the 10th International Society for Music Information Retrieval Conference (ISMIR 2009), Kobe, Japan, October 2009
- (Hu, Downie, West, Ehmann; 2005) **Mining Music Reviews: Promising Preliminary Results**, Proceedings of the 6th International Conference on Music Information Retrieval (ISMIR 2005), London, UK, September 2005
- (Kaminskas, Ricci, Schedl; 2013) **Location-aware Music Recommendation Using Auto-Tagging and Hybrid Matching**, Proceedings of the 7th ACM Conference on Recommender Systems (RecSys), Hong Kong, China, 2013.

- (Knees, Pampalk, Widmer; 2004) **Artist Classification with Web-based Data**, Proceedings of the 5th International Symposium on Music Information Retrieval (ISMIR 2004), Barcelona, Spain, October 2004.
- (Knees, Pohle, Schedl, Schnitzer, Seyerlehner; 2008) **A Document-centered Approach to a Natural Language Music Search Engine**, Proceedings of the 30th European Conference on Information Retrieval (ECIR), Glasgow, Scotland, UK, 2008.
- (Knees, Pohle, Schedl, Widmer; 2006) **Combining Audio-based Similarity with Web-based Data to Accelerate Automatic Music Playlist Generation**, Proceedings of the 8th ACM SIGMM International Workshop on Multimedia Information Retrieval (MIR 2006), Santa Barbara, USA, October 2006.
- (Knees, Pohle, Schedl, Widmer; 2007) **A Music Search Engine Built upon Audio-based and Web-based Similarity Measures**, Proceedings of the 30th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR 2007), Amsterdam, the Netherlands, July 2007.
- (Knees, Schedl; 2011) **Towards Semantic Music Information Extraction from the Web Using Rule Patterns and Supervised Learning**, Proceedings of the 2nd Workshop on Music Recommendation and Discovery (WOMRAD), Chicago, USA, October 2011.
- (Knees, Schedl; 2014) **Music Similarity and Retrieval**, expected to be published by Springer in 2014.
- (Knees, Schedl, Pohle, Widmer; 2006) **An Innovative Three-Dimensional User Interface for Exploring Music Collections Enriched with Meta-Information from the Web**, Proceedings of the 14th ACM International Conference on Multimedia (MM'06), Santa Barbara, California, USA, 2006.
- (Krenmair; 2010) **Musikspezifische Informationsextraktion aus Webdokumenten**, Master's thesis, Johannes Kepler University Linz, Austria, 2010.
- (Law, von Ahn; 2009) **Input-Agreement: A New Mechanism for Collecting Data Using Human Computation Games**, Proceedings of the 27th International Conference on Human Factors in Computing Systems (CHI 2009), Boston, MA, USA, April 2009.
- (Levy, Sandler; 2007) **A Semantic Space for Music Derived from Social Tags**, Proceedings of the 8th International Conference on Music Information Retrieval (ISMIR 2007), Vienna, Austria, September 2007
- (Levy, Sandler; 2008) **Latent Semantic Models for Music**, Journal of New Music Research, 37(2):137-150, 2008.

- (Lippens, Martens, Leman, Baets, Meyer, Tzanetakis; 2004) **A Comparison of Human and Automatic Musical Genre Classification**, Proceedings of the IEEE International Conference on Audio, Speech and Signal Processing (ICASSP), Montreal, Canada, 2004
- (Liu, Rautenberg; 2009) **Music playlist recommendation based on user heartbeat and music preference, Improving Timbre Similarity: How High's the Sky?**, Proceedings of the 2009 International Conference on Computer Technology and Development (ICCTD), Washington DC, USA, 2009.
- (Logan, Kositsky, Moreno; 2004) **Semantic Analysis of Song Lyrics**, Proceedings of the IEEE International Conference on Multimedia and Expo (ICME 2004), Taipei, Taiwan, June 2004.
- (Mahedero, Martínez, Cano, Koppenberger, Gouyon; 2005) **Natural Language Processing of Lyrics**, Proceedings of the 13th ACM International Conference on Multimedia, Singapore, November 2005.
- (Marsden; 2015) **Music Similarity**, Workshop on Music Similarity: Concepts, Cognition and Computation, Leiden, Ned, 2015. Presentation: <http://www.lorentzcenter.nl/lc/web/2015/669/presentations/Marsden.pptx>
- (Mayer, Neumayer, Rauber; 2008) **Combination of Audio and Lyrics Features for Genre Classification in Digital Audio Collections**, Proceedings of the ACM Multimedia, Vancouver, Canada; 2008.
- (McFee, Bertin-Mahieux, Ellis, Lanckriet; 2012) **The Million Song Dataset Challenge**, Proceedings of 4th International Workshop on Advances in Music Information Research (AdMIRe 2012), Lyon, France, 2012.
- (Moens, van Noorden, Leman; 2010) **D-Jogger: Syncing Music with Walking**, In Proceedings of the 7th Sound and Music Computing Conference (SMC), Barcelona, Spain, July 2010.
- (Pachet, Westerman, Laigre; 2001) **Musical Data Mining for Electronic Music Distribution**, Proceedings of the 1st International Conference on Web Delivering of Music (WEDELMUSIC 2001), Florence, Italy, November 2001.
- (Pampalk; 2001) **Islands of Music - Analysis, Organization, and Visualization of Music Archives**, Master's Thesis, TU Vienna, 2001.
- (Pampalk, Goto; 2007) **MusicSun: A New Approach to Artist Recommendation**, Proceedings of the 8th International Conference on Music Information Retrieval (ISMIR 2007), Vienna, Austria, September 2007
- (Pohle, Knees, Schedl, Widmer; 2007) **Meaningfully Browsing Music Services**, Proceedings of the 8th International Conference on Music Information Retrieval (ISMIR 2007), Vienna, Austria, September 2007.
- (Raphael; 2003) **Orchestral musical accompaniment from synthesized audio**. Proceedings of the International Computer Music Conference (ICMC). 2003.

- (Resnick, Iacovou, Suchak, Bergstrom, Riedl; 1994) **GroupLens: An Open Architecture for Collaborative Filtering of Netnews**. Proc. of Conference on Computer Supported Cooperative Work (CSCW), Chapel Hill, 1994.
- (Schedl; 2011a) **Analyzing the Potential of Microblogs for Spatio-Temporal Popularity Estimation of Music Artists**, IJCAI 2011: International Workshop on Social Web Mining, Barcelona, Spain, July 2011.
- (Schedl; 2011b) **Web- and Community-based Music Information Extraction**, In *Music Data Mining*, CRC Press/Chapman Hall, July 2011.
- (Schedl; 2012a) **#nowplaying Madonna: A Large-Scale Evaluation on Estimating Similarities Between Music Artists and Between Movies from Microblogs**, Information Retrieval, 15(3-4), 2012.
- (Schedl; 2012b) **Exploiting Social Media for Music Information Retrieval**, In Naeem Ramzan, Roelof van Zwol, Jong-Seok Lee, Kai Clüver, Xian-Sheng Hua (eds.), *Social Media Retrieval*, Springer, December 2012
- (Schedl; 2013) **Leveraging Microblogs for Spatiotemporal Music Information Retrieval**, Proceedings of the 35th European Conference on Information Retrieval (ECIR 2013), Moscow, Russia, March 2013.
- (Schedl, Breitschopf, Ionescu; 2014) **Mobile Music Genius: Reggae at the Beach, Metal on a Friday Night?**, Proceedings of the ACM International Conference on Multimedia Retrieval (ICMR), Glasgow, Scotland, 2014.
- (Schedl, Flexer; 2012) **Putting the User in the Center of Music Information Retrieval**, Proceedings of the 13th International Society for Music Information Retrieval Conference (ISMIR 2012), Porto, Portugal, Oct 2012
- (Schedl, Flexer, Urbano; 2013) **The Neglected User in Music Information Retrieval Research**, Journal of Intelligent Information Systems, 2013.
- (Schedl and Gillhofer; 2015) **Iron Maiden while jogging, Debussy for dinner? - An analysis of music listening behavior in context**, Proceedings of the 21st International Conference on MultiMedia Modeling (MMM), Sydney, Australia, January 2015
- (Schedl, Hauger; 2012) **Mining Microblogs to Infer Music Artist Similarity and Cultural Listening Patterns**, Proceedings of the 21st International World Wide Web Conference (WWW 2012): 4th International Workshop on Advances in Music Information Research (AdMIRe 2012), Lyon, France, April 2012.
- (Schedl, Hauger; 2015) **Tailoring Music Recommendations to Users by Considering Diversity, Mainstreaminess, and Novelty**, Proceedings of the 38th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR 2015), Santiago, Chile, August 2015.

- (Schedl, Hauger, Farrahi, Tkalčič; 2015) **On the Influence of User Characteristics on Music Recommendation**, Proceedings of the 37th European Conference on Information Retrieval (ECIR 2015), Vienna, Austria, 2015.
- (Schedl, Hauger, Schnitzer; 2012) **A Model for Serendipitous Music Retrieval**, IUI 2012: 2nd International Workshop on Context-awareness in Retrieval and Recommendation (CaRR 2012), Lisbon, Portugal, 2012.
- (Schedl, Hauger, Urbano; 2013) **Harvesting Microblogs for Contextual Music Similarity Estimation - A Co-occurrence-based Framework**, Multimedia Systems, May 2013.
- (Schedl, Knees; 2011) **Personalization in Multimodal Music Retrieval**, Proceedings of the 9th Workshop on Adaptive Multimedia Retrieval (AMR 2011), Barcelona, Spain, July 2011.
- (Schedl, Knees, Pohle, Widmer; 2006) **Towards Automatic Retrieval of Album Covers**, Proceedings of the 28th European Conference on Information Retrieval (ECIR 2006), London, UK, April 2006.
- (Schedl, Knees, Widmer; 2005) **A Web-Based Approach to Assessing Artist Similarity using Co-Occurrences**, Proceedings of the 4th International Workshop on Content-Based Multimedia Indexing, Riga, Latvia, 2005.
- (Schedl, Pohle, Knees, Widmer; 2011) **Exploring the Music Similarity Space on the Web**, ACM Transactions on Information Systems, 29(3):14, July 2011.
- (Schedl, Pohle, Koenigstein, Knees; 2010) **What's Hot? Estimating Country-Specific Artist Popularity**, 11th International Society for Music Information Retrieval Conference (ISMIR), Utrecht, the Netherlands, 2010.
- (Schedl, Schnitzer; 2013) **Hybrid Retrieval Approaches to Geospatial Music Recommendation**, Proceedings of the 35th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR 2013), Dublin, Ireland, July-August 2013.
- (Schedl, Sordo, Koenigstein, Weinsberg; 2013) **Mining User-generated Data for Music Information Retrieval**, In Marie-Francine Moens, Juanzi Li, Tat-Seng Chua (eds.), *Mining of User Generated Content and Its Applications*, CRC Press, 2013.
- (Schedl, Widmer; 2007) **Automatically Detecting Members and Instrumentation of Music Bands via Web Content Mining**, Proceedings of the 5th Workshop on Adaptive Multimedia Retrieval (AMR 2007), Paris, France, 2007.
- (Schnitzer, Flexer, Schedl, Widmer; 2012) **Local and Global Scaling Reduce Hubs in Space**, Journal of Machine Learning Research, 13:2871-2902, October 2012.

- (Schnitzer, Pohle, Knees, Widmer; 2007) **One-Touch Access to Music on Mobile Devices**, Proceedings of the 6th International Conference on Mobile and Ubiquitous Multimedia (MUM 2007), Oulu, Finland, December 2007.
- (Shavitt, Weinsberg; 2009) **Songs Clustering Using Peer-to-Peer Co-occurrences**, Proceedings of the IEEE International Symposium on Multimedia (ISM2009): International Workshop on Advances in Music Information Research (AdMIRe 2009), San Diego, USA, December 2009.
- (Seyerlehner; 2010) **Content-Based Music Recommender Systems: Beyond Simple Frame-Level Audio Similarity**, PhD Thesis, Johannes Kepler University Linz, December, 2010.
- (Seyerlehner, Widmer, Knees; 2010) **A Comparison of Human, Automatic and Collaborative Music Genre Classification and User Centric Evaluation of Genre Classification Systems**, Proceedings of the 8th International Workshop on Adaptive Multimedia Retrieval (AMR), Linz, Austria, 2010.
- (Seyerlehner, Widmer, Schedl, Knees; 2010) **Automatic Music Tag Classification based on Block-Level Features**, Proceedings of the 7th Sound and Music Computing Conference (SMC), Barcelona, Spain, July 2010.
- (Sordo; 2012) **Semantic Annotation of Music Collections: A Computational Approach**, PhD Thesis, Universitat Pompeu Fabra, Barcelona, Spain, February 2012.
- (Turnbull, Barrington, Torres, Lanckriet; 2007) **Towards Musical Query-by-Semantic-Description using the CAL500 Data Set**, Proceedings of the 30th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR 2007), Amsterdam, the Netherlands, July 2007.
- (Turnbull, Barrington, Yazdani, Lanckriet; 2009) **Combining Audio Content and Social Context for Semantic Music Discovery**, Proceedings of the 32nd Annual International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR), Boston, USA, July 2009.
- (Urbano, Schedl; 2012) **Minimal Test Collections for Low-Cost Evaluation of Audio Music Similarity and Retrieval Systems**, International Journal of Multimedia Information Retrieval, 2012.
- (Whitman, Ellis; 2004) **Automatic Record Reviews**, Proceedings of the 5th International Conference on Music Information Retrieval (ISMIR), Barcelona, Spain, 2004.
- (Whitman, Lawrence; 2002) **Inferring Descriptions and Similarity for Music from Community Metadata**, Proceedings of the 2002 International Computer Music Conference (ICMC), Göteborg, Sweden, 2002.
- (West, Cox, Lamere; 2006) **Incorporating Machine-Learning Into Music Similarity Estimation**, Proceedings of the 1st ACM Workshop on Audio and Music Computing Multimedia, Santa Barbara, USA, October 2006.