

# Marko Tkalčič

## CURRICULUM VITAE

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## EDUCATION

- 2011            **PhD**, Computer Science/Electrical Engineering, University of Ljubljana, Slovenia  
Topics: User Modeling, Recommender Systems, Affective Computing
- 2003            **MSc**, Electrical Engineering, University of Ljubljana, Slovenia  
Topics: Image Processing, Human Visual Perception

## ACADEMIC APPOINTMENTS

- 2016-            **Assistant Professor**, Computer Science, Free University of Bolzano, Italy
- 2013-15        **Postdoctoral Researcher**, Computer Science, Johannes Kepler University, Linz, Austria
- 2011-12        **Postdoctoral Researcher**, Electrical Engineering, University of Ljubljana, Slovenia

## HABILITATION

- 2017            **Associate Professor** (Professore di II. fascia) in Italy (Abilitazione Scientifica Nazionale)

## PUBLICATIONS

### *Journal Papers*

- J12            Schedl, M., Gomez, E., Trent, E., **Tkalčič, M.**, Eghbal-Zadeh, H., & Martorell, A. (2017). On the Interrelation between Listener Characteristics and the Perception of Emotions in Classical Orchestra Music. *IEEE Transactions on Affective Computing*, 1–1. <https://doi.org/10.1109/TAFFC.2017.2663421>
- J11            Vodlan, T., **Tkalčič, M.**, & Košir, A. (2015). The impact of hesitation, a social signal, on a user's quality of experience in multimedia content retrieval. *Multimedia Tools and Applications*, 74(17), 6871–6896. <https://doi.org/10.1007/s11042-014-1933-2>
- J10            **Tkalčič, M.**, Odić, A., Košir, A., & Tasič, J. (2013). Affective labeling in a content-based recommender system for images. *IEEE Transactions on Multimedia*, 15(2), 391–400. <https://doi.org/10.1109/TMM.2012.2229970>
- J9              Odić, A., **Tkalčič, M.**, Tasič, J. F., & Košir, A. (2013). Predicting and Detecting the Relevant Contextual Information in a Movie-Recommender System. *Interacting with Computers*, 25(1), 74–90. <https://doi.org/10.1093/iwc/iws003>
- J8              **Tkalčič, M.**, Košir, A., & Tasič, J. (2013). The LDOS-PerAff-1 corpus of facial-expression video clips with affective, personality and user-interaction metadata. *Journal on Multimodal User Interfaces*, 7(1–2), 143–155. <https://doi.org/10.1007/s12193-012-0107-7>
- J7              Odić, A., **Tkalčič, M.**, Tasič, J. F., & Košir, A. (2013). Impact of the Context Relevancy on Ratings Prediction in a Movie-Recommender System. *Automatika – Journal for Control, Measurement, Electronics, Computing and Communications*, 54(2), 252–262. <https://doi.org/10.7305/automatika.54-2.258>
- J6              **Tkalčič, M.**, Odić, A., & Košir, A. (2013). The impact of weak ground truth and facial expressiveness on affect detection accuracy from time-continuous videos of facial expressions. *Information Sciences*, 249, 13–23. <https://doi.org/10.1016/j.ins.2013.06.006>
- J5              **Tkalčič, M.**, Košir, A., Dobravec, Š., & Tasič, J. (2011). Emotional properties of latent factors in an image recommender system. *Elektrotehniški Vestnik*, 78(4), 177–180. Retrieved from <http://ev.fe.uni-lj.si/4-2011/Tkalcic.pdf>
- J4              Košir, A., Odić, A., Kunaver, M., **Tkalčič, M.**, & Tasič, J. F. (2011). Database for contextual personalization. *Elektrotehniški Vestnik*, 78(5), 270–274. Retrieved from <http://ev.fe.uni-lj.si/5-2011/Kosir.pdf>
- J3              **Tkalčič, M.**, Kosir, A., & Tasic, J. (2011). Usage of affective computing in recommender systems.

Elektrotehniški Vestnik / Electrotechnical Review, 78(1–2), 12–17. Retrieved from <http://ev.fe.uni-lj.si/1-2-2011/Tkalčič.pdf>

- J2 **Tkalčič, M.**, Burnik, U., & Košir, A. (2010). Using affective parameters in a content-based recommender system for images. *User Modelling and User-Adapted Interaction*, 20(4), 279–311. <https://doi.org/10.1007/s11257-010-9079-z>
- J1 Grbec, S., **Tkalčič, M.**, & Diaci, J. (2008). The influence of inertial loading on color gamut properties of a TFT LCD display. *Displays*, 29(1), 18–24. <https://doi.org/10.1016/j.displa.2007.06.008>

### Conference Papers

- C24 Ferwerda, B., **Tkalčič, M.**, Predicting Users' Personality from Instagram Pictures: Using Visual and/or Content Features?, In UMAP '18: 26th Conference on User Modeling, Adaptation and Personalization, July 8--11, 2018, Singapore, Singapore. ACM.
- C23 **Tkalčič, M.**, & Ferwerda, B. (2018). Eudaimonic Modeling of Moviegoers. In UMAP '18: 26th Conference on User Modeling, Adaptation and Personalization, July 8--11, 2018, Singapore, Singapore. ACM. <https://doi.org/10.1145/3209219.3209249>
- C22 Ferwerda, B., **Tkalčič, M.**, & Schedl, M. (2017). Personality Traits and Music Genres. In Proceedings of the 25th Conference on User Modeling, Adaptation and Personalization - UMAP '17 (pp. 285–288). New York, New York, USA: ACM Press. <https://doi.org/10.1145/3079628.3079693>
- C21 Ferwerda, B., Graus, M. P., Vall, A., **Tkalčič, M.**, & Schedl, M. (2017). How item discovery enabled by diversity leads to increased recommendation list attractiveness. In Proceedings of the Symposium on Applied Computing - SAC '17 (pp. 1693–1696). New York, New York, USA: ACM Press. <https://doi.org/10.1145/3019612.3019899>
- C20 Ferwerda, B., Schedl, M., & **Tkalčič, M.** (2016). Personality Traits and the Relationship with ( Non- ) Disclosure Behavior on Facebook. *WWW'16 Companion*. <https://doi.org/10.1145/2872518.2890085>
- C19 Ferwerda, B., Schedl, M., & **Tkalčič, M.** (2016). Using Instagram Picture Features to Predict Users' Personality. In Q. Tian, N. Sebe, G.-J. Qi, B. Huet, R. Hong, & X. Liu (Eds.), *Multimedia Modeling (22nd International Conference, MMM 2016, Miami, FL, USA, January 4-6, 2016, Proceedings, Part I)* (Vol. 9516, pp. 850–861). Cham: Springer International Publishing. [https://doi.org/10.1007/978-3-319-27671-7\\_71](https://doi.org/10.1007/978-3-319-27671-7_71)
- C18 Schedl, M., Hauger, D., **Tkalčič, M.**, Melenhorst, M., & Liem, C. C. S. (2016). A dataset of multimedia material about classical music: PHENIX-SMM. In 2016 14th International Workshop on Content-Based Multimedia Indexing (CBMI) (pp. 1–4). IEEE. <https://doi.org/10.1109/CBMI.2016.7500240>
- C17 Kalloori, S., Ricci, F., & **Tkalčič, M.**, (2016). Pairwise Preferences Based Matrix Factorization and Nearest Neighbor Recommendation Techniques. *Proceedings of the 10th ACM Conference on Recommender Systems - RecSys '16*, 143–146. <https://doi.org/10.1145/2959100.2959142>
- C16 Schedl, M., Eghbal-zadeh, H., Gomez, E., & **Tkalčič, M.** (2016). An Analysis of Agreement in Classical Music Perception and its Relationship to Listener Characteristics. In Proceedings of the 17th ISMIR Conference, New York City, USA, August 7-11, 2016 (pp. 578–583).
- C15 Ferwerda, B., Vall, A., **Tkalčič, M.**, & Schedl, M. (2016). Exploring Music Diversity Needs Across Countries. In Proceedings of the 2016 Conference on User Modeling Adaptation and Personalization - UMAP '16 (pp. 287–288). New York, New York, USA: ACM Press. <https://doi.org/10.1145/2930238.2930262>
- C14 Skowron, M., Ferwerda, B., **Tkalčič, M.**, & Schedl, M. (2016). Fusing Social Media Cues : Personality Prediction from Twitter and Instagram. *WWW'16 Companion*, 2–3. <https://doi.org/10.1145/2872518.2889368>
- C13 Motajcsek, T., Dobrajs, K., Garzotto, F., Göker, A., Hopfgartner, F., Malagoli, D., **Tkalčič, M.**, ... Demetriou, A. (2016). Algorithms Aside. In Proceedings of the 10th ACM Conference on Recommender Systems - RecSys '16 (pp. 215–219). New York, New York, USA: ACM Press. <https://doi.org/10.1145/2959100.2959164>
- C12 Schedl, M., Melenhorst, M., Liem, C. C. S., Martorell, A., Mayor, Ó., **Tkalčič, M.**, (2016). A Personality-based Adaptive System for Visualizing Classical Music Performances. In Proceedings of the 7th International Conference on Multimedia Systems - MMSys '16 (pp. 1–7). New York, New York, USA: ACM Press. <https://doi.org/10.1145/2910017.2910604>
- C11 **Tkalčič, M.**, Ferwerda, B., Hauger, D., & Schedl, M. (2015). Personality Correlates for Digital Concert Program Notes. In UMAP 2015, Lecture Notes On Computer Science 9146 (Vol. 9146, pp. 364–369). [https://doi.org/10.1007/978-3-319-20267-9\\_32](https://doi.org/10.1007/978-3-319-20267-9_32)
- C10 Ferwerda, B., Yang, E., Schedl, M., & **Tkalčič, M.** (2015). Personality Traits Predict Music Taxonomy Preferences. In Proceedings of the 33rd Annual ACM Conference Extended Abstracts on Human Factors in Computing Systems - CHI EA '15 (pp. 2241–2246). <https://doi.org/10.1145/2702613.2732754>
- C9 Schedl, M., Hauger, D., Farrahi, K., & **Tkalčič, M.** (2015). On the Influence of User Characteristics on Music Recommendation Algorithms. In A. Hanbury, G. Kazai, A. Rauber, & N. Fuhr (Eds.), *ECIR 2016, Advances in Information Retrieval Lecture Notes in Computer Science* (Vol. 9022, pp. 339–345). Springer. [https://doi.org/10.1007/978-3-319-16354-3\\_37](https://doi.org/10.1007/978-3-319-16354-3_37)
- C8 Ferwerda, B., Schedl, M., & **Tkalčič, M.** (2015). Personality & Emotional States : Understanding Users ' Music Listening Needs. In A. Cristea, J. Masthoff, A. Said, & N. Tintarev (Eds.), *UMAP 2015 Extended Proceedings*. Retrieved from <http://ceur-ws.org/Vol-1388/>
- C7 Farrahi, K., Schedl, M., Vall, A., Hauger, D., & **Tkalčič, M.** (2014). Impact of Listening Behavior on Music

Recommendation. In ISMIR 2014. Retrieved from

[http://www.cp.jku.at/people/schedl/Research/Publications/pdf/farrahi\\_ismir\\_2014.pdf](http://www.cp.jku.at/people/schedl/Research/Publications/pdf/farrahi_ismir_2014.pdf)

- C6 Ferwerda, B., Schedl, M., & **Tkalčič, M.** (2014). To Post or Not to Post : The Effects of Persuasive Cues and Group Targeting Mechanisms on Posting Behavior. In 2014 ASE BIGDATA/SOCIALCOM/CYBERSECURITY Conference, Stanford University, May 27-31, 2014. Retrieved from [http://www.cp.jku.at/research/papers/Ferwerda\\_etal\\_SocialCom\\_2014.pdf](http://www.cp.jku.at/research/papers/Ferwerda_etal_SocialCom_2014.pdf)
- C5 Elahi, M., Braunhofer, M., Ricci, F., & **Tkalčič, M.** (2013). Personality-based active learning for collaborative filtering recommender systems. In M. Baldoni, C. Baroglio, G. Boella, & O. Micalizio (Eds.), AIXIA 2013: Advances in Artificial Intelligence (pp. 360–371). [https://doi.org/10.1007/978-3-319-03524-6\\_31](https://doi.org/10.1007/978-3-319-03524-6_31)
- C4 Hauger, D., Schedl, M., Košir, A., & **Tkalčič, M.** (2013). The Million Musical Tweet Dataset: What We Can Learn From Microblogs. In ISMIR 2013. Retrieved from [http://www.cp.jku.at/people/schedl/Research/Publications/pdf/hauger\\_ismir\\_2013.pdf](http://www.cp.jku.at/people/schedl/Research/Publications/pdf/hauger_ismir_2013.pdf)
- C3 **Tkalčič, M.**, Burnik, U., Odić, A., Košir, A., & Tasič, J. F. (2013). Emotion-Aware Recommender Systems—A Framework and a Case Study. In S. Markovski & M. Gusev (Eds.), ICT Innovations 2012 Advances in Intelligent Systems and Computing (Vol. 207, pp. 141–150). Berlin, Heidelberg: Springer Berlin Heidelberg. [https://doi.org/10.1007/978-3-642-37169-1\\_14](https://doi.org/10.1007/978-3-642-37169-1_14)
- C2 **Tkalčič, M.**, Odić, A., Košir, A., & Tasič, J. (2012). Exploiting implicit affective labeling for image recommendations. In J. Wang, J. del R. Millán, & S. Cho (Eds.), Conference Proceedings - IEEE International Conference on Systems, Man and Cybernetics (pp. 3321–3326). <https://doi.org/10.1109/ICSMC.2012.6378304>
- C1 **Tkalčič, M.**, & Tasic, J. F. (2003). Colour spaces: perceptual, historical and applicational background. In B. Zajc & M. Tkalčič (Eds.), The IEEE Region 8 EUROCON 2003. Computer as a Tool. (Vol. 1, pp. 304–308). Proceedings of the IEEE Region 8 EUROCON 2003. Computer as a Tool. <https://doi.org/10.1109/EURCON.2003.1248032>

#### Demos

- D2 **Tkalčič, M.**, Maleki, N., Pesek, M., Elahi, M., Ricci, F., & Pesek, M. (n.d.). A Research Tool for User Preferences Elicitation with Facial Expressions. In ACM RecSys 2017 Demo (pp. 1–2). <https://doi.org/10.1145/3109859.3109978>
- D1 **Tkalčič, M.**, Schedl, M., Liem, C. C. S. S., & Melenhorst, M. S. (2016). Personalized Retrieval and Browsing of Classical Music and Supporting Multimedia Material. In Proceedings of the 2016 ACM on International Conference on Multimedia Retrieval - ICMR '16 (pp. 393–396). New York, New York, USA: ACM Press. <https://doi.org/10.1145/2911996.2912023>

#### Workshop Papers

- W20 Ferwerda, B., & **Tkalčič, M.** (2018). You Are What You Post : What the Content of Instagram Pictures Tells About Users ' Personality. In Joint Proceedings of the ACM IUI 2018 Workshops.
- W19 Ferwerda, B., **Tkalčič, M.**, & Schedl, M. (2017). Personality Traits and Music Genre Preferences: How Music Taste Vary Over Age Groups. In RecTemp Workshop in conjunction with Recsys 2017, Como, Italy
- W18 Ferwerda, B., Graus, M., & Schedl, M. & **Tkalčič, M.** (2016). The Influence of Users ' Personality Traits on Satisfaction and Attractiveness of Diversified Recommendation Lists. In M. Tkalčič, B. De Carolis, M. de Gemmis, & A. Košir (Eds.), Proceedings of the 4th Workshop on Emotions and Personality in Personalized Systems co-located with ACM Conference on Recommender Systems (RecSys 2016). Boston, MA. Retrieved from <http://ceur-ws.org/Vol-1680/>
- W17 Knees, P., Andersen, K., & **Tkalčič, M.** (2015). "I'd like it to do the opposite ": Music-Making Between Recommendation and Obstruction. In M. Ge & F. Ricci (Eds.), Proceedings of the 2nd International Workshop on Decision Making and Recommender Systems (pp. 1–7).
- W16 Ferwerda, B., Schedl, M., & **Tkalčič, M.** (2015). Predicting Personality Traits with Instagram Pictures. In M. Tkalčič, B. De Carolis, M. de Gemmis, A. Odić, & A. Košir (Eds.), Proceedings of the 3rd Workshop on Emotions and Personality in Personalized Systems 2015 - EMPIRE '15 (pp. 7–10). New York, New York, USA: ACM Press. <https://doi.org/10.1145/2809643.2809644>
- W15 Schedl, M., & **Tkalčič, M.** (2014). Genre-based Analysis of Social Media Data on Music Listening Behavior. In R. Zimmerman & Y. Yu (Eds.), Proceedings of the First International Workshop on Internet-Scale Multimedia Management - WISMM '14 (pp. 9–13). New York, New York, USA: ACM Press. <https://doi.org/10.1145/2661714.2661717>
- W14 **Tkalčič, M.**, de Gemmis, M., & Semeraro, G. (2014). Personality and Emotions in Decision Making and Recommender Systems. In M. Ge & F. Ricci (Eds.), Proceedings of the First International Workshop on Decision Making and Recommender Systems (DMRS2014) Bolzano, Italy, September 18-19, 2014. Retrieved from <http://ceur-ws.org/Vol-1278/paper3.pdf>
- W13 Košir, A., Odić, A., **Tkalčič, M.**, & Svetina, M. (2014). Human decisions in user modeling : motivation , procedure and example application. In I. Cantador, M. Chi, R. Farzan, & R. Jäschke (Eds.), UMAP 2014 Extended Proceedings. Retrieved from [http://ceur-ws.org/Vol-1181/empire2014\\_paper\\_03.pdf](http://ceur-ws.org/Vol-1181/empire2014_paper_03.pdf)
- W12 **Tkalčič, M.**, Ferwerda, B., Schedl, M., Liem, C., Melenhorst, M., Odić, A., & Košir, A. (2014). Using social media mining for estimating theory of planned behaviour parameters. In I. Cantador, M. Chi, R. Farzan,

& R. Jäschke (Eds.), UMAP 2014 Extended Proceedings (Vol. 1181). Retrieved from [http://ceur-ws.org/Vol-1181/empire2014\\_paper\\_06.pdf](http://ceur-ws.org/Vol-1181/empire2014_paper_06.pdf)

- W11 Vodlan, T., **Tkalčič, M.**, & Kosir, A. (2013). The Role of Social Signals in Telecommunication : Experimental Design. In S. Berkovsky, E. Herder, P. Lops, & O. C. Santos (Eds.), UMAP 2013 Extended Proceedings. Retrieved from [http://ceur-ws.org/Vol-997/empire2013\\_paper\\_6.pdf](http://ceur-ws.org/Vol-997/empire2013_paper_6.pdf)
- W10 Košir, A., Odić, A., & **Tkalčič, M.** (2013). How to improve the statistical power of the 10-fold cross validation scheme in recommender systems. In A. Bellogín, P. Castells, A. Said, & D. Tikk (Eds.), Proceedings of the International Workshop on Reproducibility and Replication in Recommender Systems Evaluation - RepSys '13 (pp. 3–6). New York, New York, USA: ACM Press. <https://doi.org/10.1145/2532508.2532510>
- W9 Odić, A., **Tkalčič, M.**, & Košir, A. (2013). Managing Irrelevant Contextual Categories in a Movie Recommender System. In L. Chen, M. de Gemmis, A. Felfernig, P. Lops, F. Ricci, G. Semeraro, & M. Willemsen (Eds.), RecSys'13 Workshop on Human Decision Making in Recommender Systems, 2013, Hong Kong. Retrieved from <http://ceur-ws.org/Vol-1050/paper5.pdf>
- W8 Odić, A., **Tkalčič, M.**, Tasič, J. F., & Košir, A. (2013). Personality and Social Context : Impact on Emotion Induction from Movies. In S. Berkovsky, E. Herder, P. Lops, & O. C. Santos (Eds.), UMAP 2013 Extended Proceedings. Retrieved from [http://ceur-ws.org/Vol-997/empire2013\\_paper\\_5.pdf](http://ceur-ws.org/Vol-997/empire2013_paper_5.pdf)
- W7 Odić, A., **Tkalčič, M.**, Tasič, J. F., & Košir, A. (2012). Relevant Context in a Movie Recommender System : Users ' Opinion vs . Statistical Detection. In G. Adomavicius, L. Baltrunas, E. W. de Luca, T. Hussein, & A. Tuzhilin (Eds.), Proceedings of the 4th Workshop on Context-Aware Recommender Systems in conjunction with the 6th ACM Conference on Recommender Systems (RecSys 2012). Retrieved from <http://ceur-ws.org/Vol-889/paper2.pdf>
- W6 **Tkalčič, M.**, Kunaver, M., Košir, A., & Tasič, J. (2011). Addressing the new user problem with a personality based user similarity measure. In F. Ricci, G. Semeraro, M. de Gemmis, P. Lops, J. Masthoff, F. Grasso, & J. Ham (Eds.), Joint Proceedings of the Workshop on Decision Making and Recommendation Acceptance Issues in Recommender Systems (DEMRA 2011) and the 2nd Workshop on User Models for Motivational Systems: The affective and the rational routes to persuasion (UMMS 2011). Retrieved from [http://ceur-ws.org/Vol-740/DEMRA\\_UMMS\\_2011\\_proceedings.pdf#page=106](http://ceur-ws.org/Vol-740/DEMRA_UMMS_2011_proceedings.pdf#page=106)
- W5 **Tkalčič, M.**, Odić, A., Košir, A., & Tasič, J. (2011). Impact of Implicit and Explicit Affective Labeling on a Recommender System's Performance. Joint Proceedings of the Workshop on Decision Making and Recommendation Acceptance Issues in Recommender Systems (DEMRA 2011) and the 2nd Workshop on User Models for Motivational Systems: The Affective and the Rational Routes to Persuasion (UMMS 2011), 112. Retrieved from [http://ceur-ws.org/Vol-740/UMMS2011\\_paper7.pdf](http://ceur-ws.org/Vol-740/UMMS2011_paper7.pdf)
- W4 **Tkalčič, M.**, Košir, A., Tasič, J., & Kunaver, M. (2011). Affective recommender systems: the role of emotions in recommender systems. In A. Felfernig, L. Chen, M. Mandl, M. Willemsen, D. Bollen, & M. Ekstrand (Eds.), Joint proceedings of the RecSys 2011 Workshop on Human Decision Making in Recommender Systems (Decisions@RecSys'11) and User-Centric Evaluation of Recommender Systems and Their Interfaces-2 (UCERSTI 2) affiliated with the 5th ACM Conference on Recommender (pp. 9–13). Retrieved from <http://ceur-ws.org/Vol-811/paper2.pdf>
- W3 **Tkalčič, M.**, Tasič, J., & Košir, A. (2009). The LDOS-PerAff-1 Corpus of Face Video Clips with Affective and Personality Metadata. In M. Kipp, J.-C. Martin, P. Paggio, & D. Heylen (Eds.), Proceedings of Multimodal Corpora: Advances in Capturing, Coding and Analyzing Multimodality (Malta, 2010), LREC (p. 111). Retrieved from <http://embots.dfki.de/doc/MMC2010-Proceedings.pdf>
- W2 **Tkalčič, M.**, Kunaver, M., Tasič, J., & Košir, A. (2009). Personality Based User Similarity Measure for a Collaborative Recommender System. In C. Peter, E. Crane, L. Axelrod, H. Agius, S. Afzal, & M. Balaam (Eds.), 5th Workshop on Emotion in Human-Computer Interaction-Real World Challenges (p. 30). Retrieved from <http://publica.fraunhofer.de/documents/N-113443.html>
- W1 **Tkalčič, M.**, Tasič, J. F., & Košir, A. (2009). Emotive and Personality Parameters in Multimedia Recommender Systems. In A. Vinciarelli, C. Pelachaud, R. Cowie, & A. Nijholt (Eds.), Affective Computing and Intelligent Interaction Proceedings of the Doctoral Consortium 2009 (1st ed., p. 33). CTIT Workshop Proceedings Series WP09-13. Retrieved from <http://www.utwente.nl/ctit/library/proceedings/wp0913.pdf>

### *Books, Edited Volumes and Book Chapters*

- B13 Felfernig, A., Boratto, L., Stettinger, M., & **Tkalčič, M.** (2018). Group Recommender Systems. Springer International Publishing. <https://doi.org/10.1007/978-3-319-75067-5>
- B12 **Tkalčič, M.**, Delić, A., & Felfernig, A. (2018). Personality, Emotions, and Group Dynamics. In A. Felfernig, L. Boratto, Martin Stettinger, & M. Tkalčič (Eds.), Group Recommender Systems An Introduction (pp. 157–167). [https://doi.org/10.1007/978-3-319-75067-5\\_9](https://doi.org/10.1007/978-3-319-75067-5_9)
- B11 **Tkalčič, M.** (2017). Emotions and Personality in Recommender Systems. In Encyclopedia of Social Network Analysis and Mining (2nd ed., pp. 1–9). Springer New York. [https://doi.org/10.1007/978-1-4614-7163-9\\_110161-1](https://doi.org/10.1007/978-1-4614-7163-9_110161-1)
- B10 **Tkalčič, M.**, Thakker, D., Germanakos, P., Yacef, K., Paris, C., & Santos, O. (Eds.). (2017). Adjunct Publication of the 25th Conference on User Modeling, Adaptation and Personalization. ACM New York, NY, USA. Retrieved from <http://dl.acm.org/citation.cfm?id=3099023>
- B9 Odić, A., Košir, A., & **Tkalčič, M.** (2016). Affective and Personality Corpora. In M. Tkalčič, B. De Carolis, M. de Gemmis, A. Odić, & A. Košir (Eds.), Emotions and Personality in Personalized Services (pp. 163–

178). Springer. [https://doi.org/10.1007/978-3-319-31413-6\\_9](https://doi.org/10.1007/978-3-319-31413-6_9)

- B8 **Tkalčič, M.**, De Carolis, B., de Gemmis, M., Odić, A., & Košir, A. (2016). Introduction to Emotions and Personality in Personalized Systems. In M. Tkalčič, B. De Carolis, M. de Gemmis, A. Odić, & A. Košir (Eds.), *Emotions and Personality in Personalized Services* (pp. 3–11). Springer. [https://doi.org/10.1007/978-3-319-31413-6\\_1](https://doi.org/10.1007/978-3-319-31413-6_1)
- B7 **Tkalčič, M.**, Carolis, B. De, Gemmis, M. de, Odić, A., & Košir, A. (Eds.). (2016). *Emotions and Personality in Personalized Services*. Springer International Publishing. <https://doi.org/10.1007/978-3-319-31413-6>
- B6 **Tkalčič, M.**, De Carolis, B., de Gemmis, M., Odić, A., & Košir, A. (2016). Proceedings of the 4th Workshop on Emotions and Personality in Personalized Systems (EMPIRE 2016), Boston, MA, USA, September 16, 2016. <http://ceur-ws.org/Vol-1680/>
- B5 **Tkalčič, M.**, & Chen, L. (2015). Personality and Recommender Systems. In F. Ricci, L. Rokach, & B. Shapira (Eds.), *Recommender Systems Handbook* (2nd ed., Vol. 54, pp. 715–739). Boston, MA: Springer US. [https://doi.org/10.1007/978-1-4899-7637-6\\_21](https://doi.org/10.1007/978-1-4899-7637-6_21)
- B4 **Tkalčič, M.**, De Carolis, B., de Gemmis, M., Odić, A., & Košir, A. (2015). Proceedings of the 3rd Workshop on Emotions and Personality in Personalized Systems 2015, <http://dl.acm.org/citation.cfm?id=2809643&preflayout=flat#source>
- B3 **Tkalčič, M.**, Tasič, J. F., & Košir, A. (2012). The Need for Affective Metadata in Content-Based Recommender Systems for Images. In M. Maybury (Ed.), *Multimedia Information Extraction: Advances in Video, Audio, and Imagery Analysis for Search, Data Mining, Surveillance, and Authoring*. Wiley - IEEE Computer Society Press. <https://doi.org/10.1002/9781118219546.ch19>
- B2 **Tkalčič, M.**, Košir, A., & Tasič, J. F. (2011). Emotive and personality parameters in recommender systems: Recognition and usage of user-centric data for user and item modeling in content retrieval systems. LAP LAMBERT Academic Publishing.
- B1 **Tkalčič, M.**, & Pogačnik, M. (2006). Tourist Adapted Destination Selection. In R. Ovsenik & I. Kiereta (Eds.), *Destination Management* (pp. 195–209). Peter Lang. Retrieved from <http://www.peterlang.de/index.cfm?event=cmp.ccc.seitenstruktur.detailseiten&seitentyp=produkt&pk=39292&CFID=200073&CFTOKEN=502>

#### Other

- O2 **Tkalčič, M.**, Quercia, D., & Graf, S. (2016). Preface to the special issue on personality in personalized systems. *User Modeling and User-Adapted Interaction*, 26(2–3), 103–107. <https://doi.org/10.1007/s11257-016-9175-9> (non peer reviewed)
- O1 Gemmis, M. de, Carolis, N. De, Košir, A., & **Tkalčič, M.** (2016). Emotions and Personality in Personalized Systems. *Interaction Design and Architecture(s) Journal - IxD&A*, 28, 105–109. (non peer reviewed)

#### GRANTS

- 2017 Amazon AWS Cloud Credits for Research **Principal Investigator**, PERSuADE - PERSONality- AnD Emotion-based personalized predictive models. Budget: 5.000 USD
- 2017 - 2018 Free University of Bolzano Internal Research Funding, **Principal Investigator** - IMPRESS - Improving the Quality of Recommender Systems, Budget: 10.000 EUR
- 2017 - 2018 Free University of Bolzano Internal Research Funding: **Principal Investigator** - PLATFORMS - Preference Learning Techniques for Recommender Systems, Budget: 70.000 EUR
- 2015 Nvidia Hardware Grant: **Principal Investigator** at the Johannes Kepler University - donation of an NVIDIA Titan X GPU card to support research
- 2013 - 2016 ARRS (Slovenian National Grant Agency): **Co-investigator** at the University of Ljubljana. Principal Investigator: Janko Drnovšek. Project title: Measuring psycho-physiological parameters as input data for computerized adaptive testing (xRAT). Budget: 50.000 EUR. [Über Research Link](#)
- 2007 -2008 European commission program Leonardo DaVinci: **Principal Investigator** at the University of Ljubljana. Project title: VIRBUS. Total budget: 365.000 EUR, University of Ljubljana budget: 10.000 EUR
- 2006 - 2008 European commission FP5 eTEN: **Co-Investigator, Project Technical manager, WP Leader**, Project title: P2P for Major Events. Total budget: 1.4 M EUR, University of Ljubljana budget: 138.000 EUR
- 2004 - 2006 European commission FP5 IST: **Co-Investigator** at the University of Ljubljana. Project Title: Content4All (IST-2-511480). Total budget: 1.87 M EUR, University of Ljubljana budget: 265.000 EUR [http://cordis.europa.eu/ist/kct/content4all\\_synopsis.htm](http://cordis.europa.eu/ist/kct/content4all_synopsis.htm)

#### INVITED TALKS

- 2017 Invited talk at the **Alpen-Adria-Universität Klagenfurt**, *Affective Personalization - from Psychology to Algorithms*, 21. December 2017, <https://www.ftf.or.at/2017/12/affective-personalization-from-psychology-to-algorithms/>
- 2017 Invited talk at the **Jonköping University**, *Bridging computer-science and psychological models for personalization* 5. October 2017
- 2017 Invited talk at the **Vienna University of Technology**, *Psychologically-driven Personalization*, 10. April 2017

- 2016 Invited talk at the **University in Ljubljana** Faculty of Computer Science: *Psychologically-driven Personalization*, <https://www.fri.uni-lj.si/en/news/article/fri-piskot-seminar-Tkalčič-psychologically-driven-personalization>, 22. December 2016
- 2016 Invited talk at the **Johannes Kepler University**, Linz: *Learning from User-generated Data*, 21. June 2016
- 2015 Invited talk at the **Brain Week 2015** conference, Ljubljana: *Tell me what you like and I tell you who you are: social media, personality and emotions*, 18. March 2015, <http://www.sinapsa.org/tm/program/2015-03-18/Ljubljana>
- 2015 Invited talk at the **Technical University Graz**, Austria, *Affect- and Personality-based Recommendations*, 26. January 2015, [http://ase.ist.tugraz.at/ASE/?page\\_id=224](http://ase.ist.tugraz.at/ASE/?page_id=224)
- 2014 Invited talk at the **International Workshop on Decision Making and Recommender Systems 2014**, Bolzano, Italy: *Decision Making, Personality and Emotions* (with Giovanni Semeraro and Marco de Gemmis), 18. September 2014, <http://dmrsworkshop.inf.unibz.it/2014/>
- 2013 Invited talk at the **Johannes Kepler University** Linz, *Emotions, personality and recommender systems*, Department of Computational Perception, 12. February, 2013
- 2012 Invited talk at the **Conference of Cognitive Sciences – Information Society 2012: Automatic Detection of Emotions**, 8-12. October, 2012, Jožef Stefan Institute, Ljubljana, Slovenia <http://is.ijs.si/is/is2012/konference/Kognitivna/KZ-IS-2012-ENG.pdf>
- 2012 Invited talk at the **Free University of Bolzano: Affect in recommender systems**. Bolzano: Libera Università, 4. September 2012 [https://www.inf.unibz.it/dis/wp/?page\\_id=100#Tkalčič](https://www.inf.unibz.it/dis/wp/?page_id=100#Tkalčič)

## SCIENTIFIC COMMUNITY ACTIVITIES

### *Editorial Board Member, Guest Editor*

- 2018 Guest Editor of the Special Issue on User Modeling for Personalized Interaction with Music in Springer **User Modeling and User-Adapted Interaction (UMUAI)** [http://www.cp.jku.at/journals/umuai\\_si\\_music.html](http://www.cp.jku.at/journals/umuai_si_music.html)
- 2018 Member of the editorial board of the Springer **User Modeling and User-Adapted Interaction (UMUAI)** journal
- 2016 Guest editor of the Special Issue "Advances in Affect- and Personality-based Personalized Systems" in the **MDPI Computers** journal [http://www.mdpi.com/journal/computers/special\\_issues/selected\\_papers\\_EMPIRE\\_2016](http://www.mdpi.com/journal/computers/special_issues/selected_papers_EMPIRE_2016)
- 2016 Guest Associate Editor for the **Frontiers in Psychology** Human-Media Interaction Research Topic Socially-aware communication services <http://journal.frontiersin.org/researchtopic/4334/socially-aware-communication-services>
- 2015 Guest editor of the focus section in the **Interaction Design and Architecture (s)** Journal <http://www.mifav.uniroma2.it/inevent/events/idea2010/index.php?s=102&link=call28fs>
- 2014 Guest Editor of the Special issue on Personality in Personalized Systems in Springer **User Modeling and User-Adapted Interaction (UMUAI)** [http://www.cp.jku.at/people/tkalcic/umuai\\_personality.html](http://www.cp.jku.at/people/tkalcic/umuai_personality.html)

### *Reviewer for Journals*

- ACM Transactions on Intelligent Systems and Technology 2017(1), 2015(1), 2014(1)
- ACM Transactions on Internet Technology 2017(1)
- ACM Transactions on Multimedia Computing, Communications, and Applications 2015(1)
- ACM Transactions on the Web 2018(1), 2017(1)
- ACM Transactions on Interactive Intelligent Systems 2017(1) 2016(1), 2015(1), 2012(1)
- Elsevier Computer Communications 2015(1)
- Elsevier Information Sciences 2018(1), 2015(1), 2013(5)
- Elsevier Information Systems 2018(1), 2016(1)
- Elsevier International Journal of Human-Computer Studies 2014(1)
- Emerald Online Information Review 2017(1)
- Frontiers in Psychology 2017(1)
- IEEE Multimedia 2017(1)
- IEEE Transactions on Affective Computing 2018(1), 2015(3), 2014(1), 2010(1)
- IEEE Transactions on Circuits and Systems for Video Technology 2014(4), 2013(1), 2012(1)
- IEEE Transactions on Multimedia 2016(1), 2015(1), 2014(1)
- Journal of Artificial Intelligence Research 2014(1)
- Springer Behavior Research Methods 2018(1), 2017 (1)
- Springer Electronic Commerce Research 2016(1)
- Springer Information Technology & Tourism 2017(2)
- Springer User Modeling and User Adapted Interaction 2018(4), 2017(2), 2015(1), 2014(2), 2011(1)
- Taylor and Francis International Journal of Human-Computer Interaction 2016(1)
- Transactions of the International Society for Music Information Retrieval 2018(1)

### *Tutorials and Summer Schools*

2018	ACM RecSys 2018, Vancouver: Tutorial <i>Emotions and Personality in Recommender Systems</i>
2017	ACM Summer School on Recommender Systems, Bozen-Bolzano, 21-25 August 2017 <i>Affect and Personality-Based RS</i>

### **Conference Organization**

2019	ACM RecSys 2019, <i>Demos &amp; Posters co-chair</i>
2018	ACM UMAP 2018, <i>Workshops and Tutorials co-chair</i>
2017	ACM RecSys 2017, <i>Workshops co-chair</i>
2017	ACM UMAP 2017, <i>Late-breaking Results, Theory, Opinion and Reflection, and Demo co-chair</i>

### **Program Committee Member/Conference Reviewer**

- AAAI (2015)
- ACII (2017)
- ACM CIKM (2016)
- ACM HT (2017)
- ACM IUI (2015, 2016, 2017, 2018)
- ACM Multimedia (2015, 2016, 2017, 2018)
- ACM RecSys (2017, 2018)
- ACM SAC (2017, 2018)
- ACM TVX (2014,2017)
- ACM UMAP (2013, 2014, 2015, 2016, 2017, 2018)
- ECIR (2014, 2015, 2016, 2017, 2018)
- ISMIR (2014, 2015, 2016, 2017, 2018)
- KDD (2017,2018)
- PKDD (2017, 2018)
- WWW (2018, 2019)

### **Workshops organization**

2018	Program Chair, IIR 2018, 9th Italian Information Retrieval Workshop
2018	Workshop Organizer, 2nd Workshop on Theory-Informed User Modeling for Tailoring and Personalizing Interfaces (HUMANIZE) at ACM IUI 2018
2017	Workshop Organizer, 2nd Workshop on Surprise, Opposition, and Obstruction in Adaptive and Personalized Systems (SOAP) in conjunction with ACM UMAP 2017
2017	Workshop Organizer, Workshop on Theory-Informed User Modeling for Tailoring and Personalizing Interfaces (HUMANIZE) at ACM IUI 2017
2016	Workshop Organizer, Emotions and Personality in Personalized Systems (EMPIRE) in conjunction with ACM RecSys 2016.
2016	Workshop Organizer, Workshop on Surprise, Opposition, and Obstruction in Adaptive and Personalized Systems (SOAP) in conjunction with ACM UMAP 2016
2015	Workshop Organizer, Emotions and Personality in Personalized Systems (EMPIRE) in conjunction with ACM RecSys 2015
2014	Workshop Organizer, Emotions and Personality in Personalized Systems (EMPIRE) in conjunction with UMAP 2014
2013	Workshop Organizer, Emotions and Personality in Personalized Systems (EMPIRE) in conjunction with UMAP 2013

### **Reviewer for Granting Agencies**

2018	French National Research Agency (ANR 2018 generic call)
2018	Netherlands Organisation for Scientific Research (NWO): VENI Programme
2018	EDGE and Marie-Sklodowska Curie, Ireland
2017	EDGE and Marie-Sklodowska Curie, Ireland
2017	Netherlands Organisation for Scientific Research (NWO)

### **Faculty Service**

2018	<i>Tutor</i> , BSc in Computer Science study, Faculty of Computer Science, Free University of Bozen-Bolzano
2016-18	<i>Study Plan Advisor</i> , MSc study in Software Engineering, Faculty of Computer Science, Free University of Bozen-Bolzano
2016-18	<i>PhD Committee Member</i> , Faculty of Computer Science, Free University of Bozen-Bolzano

2012 *Internal Patent Examiner, University of Ljubljana Faculty of Electrical Engineering*

## TEACHING

### *Free Univeristy of Bozen-Bolzano, Italy*

2018-19 *Programming for Data Analytics, 1st year, MSc Data Science, Labs [planned]*  
2017-18 *Programming Project, 1st year , BSc Computer Science, Lectures*  
2016-17 *Advanced Programming, 1st year , BSc Computer Science, Lectures and Labs*  
2015-16 *Advanced Programming, 1st year , BSc Computer Science, Labs*  
*Software Engineering, 2nd year , BSc Computer Science, Labs*

### *Alpen-Adria-Universität Klagenfurt, Austria*

2018-19 *602.315 (17W) Decision Support Systems, MSc Applied Informatics/Informatics/Information Management, Lectures [planned]*  
2017-18 *602.315 (17W) Decision Support Systems, MSc Applied Informatics/Informatics/Information Management, Lectures*

## SUPERVISION

### *PhD Theses*

2013-16 Bruce Ferwerda, Johannes Kepler University, Austria, Co-Advisor with Markus Schedl,  
First Permanent Position: Assistant Professor at Jonkoping University, Sweden  
2011-14 Tomaž Vodlan, University of Ljubljana, Slovenia, Co-Advisor with Andrej Košir  
First Permanent position: Engineer at Zarja Elektronika d.o.o., Slovenia  
2010-13 Ante Odić, University of Ljubljana, Slovenia, Co-Advisor with Andrej Košir  
First Permanent position: Principal Data Scientist at Outfit7, Slovenia

### *PhD Defense Jury Member*

2018 Evgeny Frolov, Skolkovo Institute of Science and Technology (Skoltech), Moscow, Russia  
2018 Katarina Gašperlin, University of Ljubljana, Slovenia

### *MSc Theses*

2018 Nima Maleki, Politecnico di Milano, Italy, Co-Advisor with Francesco Ricci and Paolo Cremonesi

### *Other*

2017 Mohammad Belghis-Zadeh, External MSc supervisor (Advisor: Sabine Graf), Athabasca University, Canada

## LANGUAGES

Slovenian native  
English fluent ( C2 Cambridge English Language Assessment certificate)  
Italian fluent ( C1 CELI, C1 CILS certificates)  
Croatian good (B2)  
German basic (A2 Goethe Institute, A2 ÖSD certificates)  
French basic (A1)  
Spanish basic (A1)

The levels A1, A2, B1, B2, C1, C2 (best) are based on the CEFR scale  
<http://europass.cedefop.europa.eu/en/resources/european-language-levels-cefr>