

Attachment 'C'

University Academic Curriculum Vitae

Personal information	Name: Marko Tkalčič Place and date of birth: Koper (Capodistria), 11.02.1975 Nationality: Slovenian Address: Merčnikova 1-B, Ljubljana Telephone numbers: <ul style="list-style-type: none"> • Mobile: +386 40 522 579 • Private: NA • Office: NA Fax: NA E-Mail: marko.tkalcic@gmail.com				
Education since leaving school	<ul style="list-style-type: none"> • 1999, BSc., Quality Assessment of Grey-scale Digital Images, University of Ljubljana • 2003, MSc., Quality Assessment of Color Digital Images, University of Ljubljana • 2011, Electrical Engineering/Computer Science, PhD title: Recognition and Usage of Emotive Parameters in Recommender Systems, University of Ljubljana • 2014, Electrical Engineering, Assistant Professor in the area of Electrical Engineering at the University of Ljubljana, Slovenia 				
Present appointments	<ul style="list-style-type: none"> • Post-doctoral Researcher • 1. April 2013 • Full-time Researcher on an FP7 project (40 hours per week) • Johannes Kepler University Linz, Austria • Coordinating and carrying out research within the FP7 Project Phenicx. Involvement in the WP5 on user modeling, responsible for 5 deliverables. Assistant PhD supervisor. • Post-doctoral Researcher at Assistant Professor level • 1. September 2013 • Part-time researcher on a nationally funded project (8 hours per week) • University of Ljubljana, Slovenia • Research work (experiment design, reporting) on physiological measurements for recommender systems 				
Professional experience	From / to	Job title	Name of academic Institution	Academic level	responsibilities
2013-		Post-doc researcher	Johannes Kepler University Linz, Austria	PhD	Coordinating and carrying out research within the FP7 Project Phenicx. Involvement in the WP5 on user modeling, responsible for 5 deliverables. Assistant PhD supervisor.
2013-		Post-doc	University of	PhD	Research work (experiment

		researcher	Ljubljana, Faculty of Electrical Engineering, Slovenia		design, reporting) on physiological measurements for recommender systems
	2011-2012	Post-doc researcher	University of Ljubljana Faculty of Electrical Engineering, Slovenia	PhD	Programming work on industry-funded projects, research
	2008-2011	PhD student	University of Ljubljana Faculty of Electrical Engineering, Slovenia	Post-graduate	Carrying out research within my PhD work, grant writing, publishing
	1999-2007	Researcher	University of Ljubljana Faculty of Electrical Engineering, Slovenia	Post-graduate	Research and programming on EU funded projects, reporting, financial management, grant writing, project management
	2007-2010	Adjunct Senior Lecturer	University of Primorska Faculty of Tourism Studies, Portorož, Slovenia	Post-graduate	Teaching the course "Introduction to Information Communication Technologies", examining students
	2001	Programmer	Adacta d.o.o.	Post-graduate	Programming in C++ a banking application
Participation in exhibitions (where applicable)	Not applicable				
Experience in academic teaching	<ul style="list-style-type: none"> • In the academic years 2007-08, 2008-09 and 2009-10 teacher (Senior Lecturer) at the undergraduate level of the course "Introduction to Information Communication Systems" at the University of Primorska, Faculty of Tourism Studies, Portorož, Slovenia • In the academic year 2009-10, when the University of Primorska started with the evaluation of teachers, I was ranked top-10 in all the categories based on students' polls • Officially, I have not supervised PhD students so far. Unofficially, I was assistant supervisor at the University of Ljubljana for Ante Odić (Computer Science, Recommender Systems, graduated in 2013, supervisor prof. Andrej Košir) and currently for Bruce Ferwerda at the Johannes Kepler University (Computer Science, Psychological Modeling of Musical Listeners, supervisor Prof. Markus Schedl) 				
Other academic responsibilities	<ul style="list-style-type: none"> • 2003: Editor of the IEEE Eurocon 2003 conference proceedings • 2005: coordinator of a major FP7 financial audit at the University of Ljubljana Faculty of Electrical Engineering • 2006-2007: technical manager of the EU funded project eTEN P2P Major Events at the University of Ljubljana Faculty of Electrical Engineering • 2007-2008: Virbus project (Leonardo da Vinci) coordinator at UL • 2010: reviewer for the journal <ul style="list-style-type: none"> ◦ IEEE Transactions on Affective Computing • 2011: reviewer for the journals: <ul style="list-style-type: none"> ◦ UMUAI - User Modeling and User Adapted Interactions ◦ Automatika • 2012: reviewer for the journals: <ul style="list-style-type: none"> ◦ IEEE Transactions on Circuits and Systems for Video Technology ◦ ACM Transactions on Interactive Intelligent Systems • 2013: co-organizer of the 1st EMPIRE workshop in conjunction with UMAP 2013, Rome, Italy 				

	<ul style="list-style-type: none"> • 2013: session chair at UMAP 2013, Rome, Italy • 2013: reviewer for the journals: <ul style="list-style-type: none"> ○ IEEE Transactions On Parallel And Distributed Systems ○ Elsevier Information Sciences ○ Springer The Visual Computer ○ IEEE Transactions on Circuits and Systems for Video Technology • 2014: co-organizer of the 2nd EMPIRE workshop in conjunction with UMAP 2014, Aalborg, Denmark • 2014: leading guest co-editor (Tkalčič, Quercia, Graf) of the UMUI "Special issue on Personality in Personalized Systems" http://www.cp.jku.at/people/tkalcic/umuai_personality.html • 2014: leading co-editor (Tkalčič, DeCarolis, de Gemmis, Odić, Košir) of the Springer volume "Emotions and Personality in Personalized Services" (to be published in 2015/2016) • 2014: Reviewer for the journals: <ul style="list-style-type: none"> ○ TF New Review of Hypermedia and Multimedia ○ Elsevier International Journal of Human-Computer Studies ○ IEEE Transactions on Affective Computing ○ IEEE Transactions on Multimedia ○ IEEE Transactions on Circuits and Systems for Video Technology ○ ACM Transactions on Intelligent Systems and Theory ○ Springer User Modeling and User Adapted Interaction ○ Journal of Artificial Intelligence Research ○ Elsevier Information Sciences • 2015: co-organizer of the 3rd EMPIRE workshop in conjunction with ACM RecSys 2015, Vienna, Austria • 2015: leading guest co-editor (Tkalčič, Fairclough, Conati, Valjamae) of the UMUI "Special issue on Physiology in Personalized Systems" http://www.cp.jku.at/people/tkalcic/umuai_physiology.html • 2015: reviewer for the journals: <ul style="list-style-type: none"> ○ IEEE Transactions for Affective Computing ○ Springer International Journal of Artificial Intelligence in Education ○ Springer Computer Communications
<p>Memberships</p>	<ul style="list-style-type: none"> • 2015: advisory committee member of the DMRS 2015 workshop • 2015: Program Committee/Reviewer at the following conferences <ul style="list-style-type: none"> ○ ACM IUI 2015 ○ ACM Multimedia 2015 ○ ACM RecSys 2015 Posters and Demos ○ ECIR 2015 ○ UMAP 2015 ○ AAAI 2015 ○ ISMIR 2015 • 2014: Program Committee/Reviewer at the following conferences <ul style="list-style-type: none"> ○ ECIR 2014 ○ UMAP 2014 DC ○ ACM TVX 2014 ○ ISMIR 2014 ○ ACM RecSys 2014 Demo & Poster Track • 2013: Program Committee/Reviewer at the following conferences:

	<ul style="list-style-type: none"> ○ UMAP 2013 DC ○ ACM ICMI 2013 • 2012: Program Committee/Reviewer at the following conferences: <ul style="list-style-type: none"> ○ ACM ICMI 2012 ○ IEEE SMC 2012 ○ SocialCom 2012 • 2011: Program Committee/Reviewer at the following conferences • 1999-2012: IEEE member • 2014: ACM member
--	--

Research and scholarships	<p>In the last five years I was personally not awarded any grant. However, my research work was funded from the following grants:</p> <table border="1"> <thead> <tr> <th>Date granted</th> <th>Award Holder(s)</th> <th>Funding Body</th> <th>Title</th> <th>Amount received</th> </tr> </thead> <tbody> <tr> <td>2013</td> <td>Markus Schedl</td> <td>EU</td> <td>FP7 Phenix project</td> <td>NA</td> </tr> <tr> <td>2011</td> <td>Andrej Košir</td> <td>Mediatel d.o.o.</td> <td>ASOD project</td> <td>50,000.00 EUR</td> </tr> <tr> <td>2006</td> <td>Jurij Tasič</td> <td>EU</td> <td>IST Live IP</td> <td>NA</td> </tr> </tbody> </table>	Date granted	Award Holder(s)	Funding Body	Title	Amount received	2013	Markus Schedl	EU	FP7 Phenix project	NA	2011	Andrej Košir	Mediatel d.o.o.	ASOD project	50,000.00 EUR	2006	Jurij Tasič	EU	IST Live IP	NA
Date granted	Award Holder(s)	Funding Body	Title	Amount received																	
2013	Markus Schedl	EU	FP7 Phenix project	NA																	
2011	Andrej Košir	Mediatel d.o.o.	ASOD project	50,000.00 EUR																	
2006	Jurij Tasič	EU	IST Live IP	NA																	

Publications	<table border="1"> <thead> <tr> <th>Comment</th> <th>Publication</th> </tr> </thead> <tbody> <tr> <td></td> <td>Books - Authored</td> </tr> <tr> <td></td> <td><i>Tkalčič, M., Košir, A., & Tasič, J. F.</i> (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. ISBN 978-3-8443-3309-1 http://www.amazon.com/Emotive-personality-parameters-recommender-systems/dp/3844333096</td> </tr> <tr> <td></td> <td>Books - Edited</td> </tr> <tr> <td></td> <td>Tkalčič, DeCarolis, de Gemmis, Odić, Košir, (Eds.) "Emotions and Personality in Personalized Systems", Springer, publication expected in 2016</td> </tr> <tr> <td></td> <td>Chapters in books</td> </tr> <tr> <td></td> <td><i>Tkalčič, M., & Pogačnik, M.</i> (2006). Tourist Adapted Destination Selection. In R. Ovsenik & I. Kiereta (Eds.), Destination Management (pp. 195–209). Peter Lang. http://mcaf.ee/gvl2e</td> </tr> <tr> <td></td> <td><i>Tkalčič, M., Tasič, J. F., & Košir, A.</i> (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. http://doi.org/10.1002/978118219546.ch19</td> </tr> <tr> <td></td> <td>Tkalčič, M., & Chen, L. (2015). Personality and Recommender Systems. In F. Ricci, L. Rokach, & B. Shapira (Eds.), Recommender Systems Handbook (2nd ed.). Springer., expected publishing in late 2015</td> </tr> <tr> <td></td> <td>Journal Papers in refereed academic journals</td> </tr> <tr> <td>IF = 1.8 (2008)</td> <td>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. http://doi.org/10.1016/j.displa.2007.06.008</td> </tr> <tr> <td>* IF = 3.1 (2010)</td> <td><i>Tkalčič, M., Burnik, U., & Košir, A.</i> (2010). Using affective parameters in a content-based recommender system for images. User Modelling and User-Adapted Interaction, 20(4), 279–311. http://doi.org/10.1007/s11257-010-9079-z</td> </tr> <tr> <td></td> <td><i>Tkalčič, M., Košir, A., Dobravec, Š., & Tasič, J.</i> (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</td> </tr> <tr> <td>IF = 0.8 (2013)</td> <td><i>Tkalčič, M., Košir, A., & Tasič, J.</i> (2013). The LDOS-PerAff-1 corpus of facial-expression video clips with affective, personality and user-interaction metadata.</td> </tr> </tbody> </table>	Comment	Publication		Books - Authored		<i>Tkalčič, M., Košir, A., & Tasič, J. F.</i> (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. ISBN 978-3-8443-3309-1 http://www.amazon.com/Emotive-personality-parameters-recommender-systems/dp/3844333096		Books - Edited		Tkalčič, DeCarolis, de Gemmis, Odić, Košir, (Eds.) "Emotions and Personality in Personalized Systems", Springer, publication expected in 2016		Chapters in books		<i>Tkalčič, M., & Pogačnik, M.</i> (2006). Tourist Adapted Destination Selection. In R. Ovsenik & I. Kiereta (Eds.), Destination Management (pp. 195–209). Peter Lang. http://mcaf.ee/gvl2e		<i>Tkalčič, M., Tasič, J. F., & Košir, A.</i> (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. http://doi.org/10.1002/978118219546.ch19		Tkalčič, M., & Chen, L. (2015). Personality and Recommender Systems. In F. Ricci, L. Rokach, & B. Shapira (Eds.), Recommender Systems Handbook (2nd ed.). Springer., expected publishing in late 2015		Journal Papers in refereed academic journals	IF = 1.8 (2008)	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. http://doi.org/10.1016/j.displa.2007.06.008	* IF = 3.1 (2010)	<i>Tkalčič, M., Burnik, U., & Košir, A.</i> (2010). Using affective parameters in a content-based recommender system for images. User Modelling and User-Adapted Interaction, 20(4), 279–311. http://doi.org/10.1007/s11257-010-9079-z		<i>Tkalčič, M., Košir, A., Dobravec, Š., & Tasič, J.</i> (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	IF = 0.8 (2013)	<i>Tkalčič, M., Košir, A., & Tasič, J.</i> (2013). The LDOS-PerAff-1 corpus of facial-expression video clips with affective, personality and user-interaction metadata.
Comment	Publication																												
	Books - Authored																												
	<i>Tkalčič, M., Košir, A., & Tasič, J. F.</i> (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. ISBN 978-3-8443-3309-1 http://www.amazon.com/Emotive-personality-parameters-recommender-systems/dp/3844333096																												
	Books - Edited																												
	Tkalčič, DeCarolis, de Gemmis, Odić, Košir, (Eds.) "Emotions and Personality in Personalized Systems", Springer, publication expected in 2016																												
	Chapters in books																												
	<i>Tkalčič, M., & Pogačnik, M.</i> (2006). Tourist Adapted Destination Selection. In R. Ovsenik & I. Kiereta (Eds.), Destination Management (pp. 195–209). Peter Lang. http://mcaf.ee/gvl2e																												
	<i>Tkalčič, M., Tasič, J. F., & Košir, A.</i> (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. http://doi.org/10.1002/978118219546.ch19																												
	Tkalčič, M., & Chen, L. (2015). Personality and Recommender Systems. In F. Ricci, L. Rokach, & B. Shapira (Eds.), Recommender Systems Handbook (2nd ed.). Springer., expected publishing in late 2015																												
	Journal Papers in refereed academic journals																												
IF = 1.8 (2008)	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. http://doi.org/10.1016/j.displa.2007.06.008																												
* IF = 3.1 (2010)	<i>Tkalčič, M., Burnik, U., & Košir, A.</i> (2010). Using affective parameters in a content-based recommender system for images. User Modelling and User-Adapted Interaction, 20(4), 279–311. http://doi.org/10.1007/s11257-010-9079-z																												
	<i>Tkalčič, M., Košir, A., Dobravec, Š., & Tasič, J.</i> (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																												
IF = 0.8 (2013)	<i>Tkalčič, M., Košir, A., & Tasič, J.</i> (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. http://doi.org/10.1007/s12193-012-0107-7
* If = 1.8 (2013)	<i>Tkalčič, M., Odić, A., Košir, A., & Tasič, J.</i> (2013). Affective labeling in a content-based recommender system for images. <i>IEEE Transactions on Multimedia</i> , 15(2), 391–400. http://dx.doi.org/10.1109/TMM.2012.2229970 http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=6362231
IF = 0.3 (2013)	Odić, A., Tkalčič, M., Tasič, J. F., & Košir, A. (2013). Impact of the Context Relevancy on Ratings Prediction in a Movie-Recommender System. <i>Automatika – Journal for Control, Measurement, Electronics, Computing and Communications</i> , 54(2), 252–262. http://doi.org/10.7305/automatika.54-2.258
IF = 0.7 (2013)	Odić, A., Tkalčič, M., Tasic, J. F., & Košir, A. (2013). Predicting and Detecting the Relevant Contextual Information in a Movie-Recommender System. <i>Interacting with Computers</i> , 25(1), 74–90. http://doi.org/10.1093/iwc/iws003 http://iwc.oxfordjournals.org/content/early/2013/02/06/iwc.iws003
* IF = 3.9 (2013)	<i>Tkalčič, M., Odić, A., & Košir, A.</i> (2013). The impact of weak ground truth and facial expressiveness on affect detection accuracy from time-continuous videos of facial expressions. <i>Information Sciences</i> , 249, 13–23. http://doi.org/10.1016/j.ins.2013.06.006
IF = 1.1 (2013)	Vodlan, T., Tkalčič, M., & Košir, A. (2014). The impact of hesitation, a social signal, on a user's quality of experience in multimedia content retrieval. <i>Multimedia Tools and Applications</i> . http://doi.org/10.1007/s11042-014-1933-2
	Other publications
* 235 citations	<i>Tkalčič, M., & Tasič, J. F.</i> (2003). Colour spaces: perceptual, historical and applicational background. In B. Zajc & M. Tkalčič (Eds.), <i>The IEEE Region 8 EUROCON 2003. Computer as a Tool</i> . (Vol. 1, pp. 304–308). Proceedings of the IEEE Region 8 EUROCON 2003. Computer as a Tool. http://doi.org/10.1109/EURCON.2003.1248032
	<i>Tkalčič, M., Tasič, J. F., & Košir, A.</i> (2009). Emotive and Personality Parameters in Multimedia Recommender Systems. In A. Vinciarelli, C. Pelachaud, R. Cowie, & A. Nijholt (Eds.), <i>Affective Computing and Intelligent Interaction PROCEEDINGS OF THE DOCTORAL CONSORTIUM 2009</i> (1st ed., p. 33). CTIT Workshop Proceedings Series WP09-13. Retrieved from http://www.utwente.nl/ctit/library/proceedings/wp0913.pdf
	<i>Tkalčič, M., Kunaver, M., Tasič, J., & Košir, A.</i> (2009). Personality Based User Similarity Measure for a Collaborative Recommender System. 5th Workshop on Emotion in Human-Computer Interaction-Real World Challenges, 30. http://publica.fraunhofer.de/documents/N-113443.html
	<i>Tkalčič, M., Odić, A., Košir, A., & Tasič, J.</i> (2010). Comparison of an Emotion Detection Technique on Posed and Spontaneous Datasets. Proceedings of the 19th ERK Conference, Portorož, Slovenia 2010.
*	<i>Tkalčič, M., Košir, A., Tasič, J., & Kunaver, M.</i> (2011). Affective recommender systems : the role of emotions in recommender systems. Proceedings of the RecSys 2011 Workshop on Human Decision Making in Recommender Systems (Decisions@RecSys'11), 9–13. Retrieved from http://ceur-ws.org/Vol-740/UMMS2011_paper6.pdf
	<i>Tkalčič, M., Kunaver, M., Košir, A., & Tasič, J.</i> (2011). Addressing the new user problem with a personality based user similarity measure. 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
	<i>Tkalčič, M., Odić, A., Košir, A., & Tasič, J.</i> (2012). Impact of Implicit and Explicit Affective Labeling on a Recommender System's Performance. <i>Advances in User Modeling</i> , 7138(i), 342–354. http://doi.org/10.1007/978-3-642-28509-7_32
	Odić, A., Tkalčič, M., Tasič, J. F., & Košir, A. (2012). Relevant Context in a Movie Recommender System : Users ' Opinion vs . Statistical Detection. CARS Workshop at RecSys 2012, Dublin, Ireland.
	<i>Tkalčič, M., Odić, A., Košir, A., & Tasič, J.</i> (2012). Exploiting implicit affective labeling for image recommendations. <i>Conference Proceedings - IEEE International Conference on Systems, Man and Cybernetics</i> , 3321–3326. http://doi.org/10.1109/ICSMC.2012.6378304
	Košir, A., Odić, A., & Tkalčič, M. (2013). How to improve the statistical power of the 10-fold cross validation scheme in recommender systems. Proceedings of

	<p>the International Workshop on Reproducibility and Replication in Recommender Systems Evaluation - RepSys '13, 3–6. http://doi.org/10.1145/2532508.2532510</p>
	<p>Odić, A., Tkalčić, M., & Košir, A. (2013). Managing Irrelevant Contextual Categories in a Movie Recommender System. RecSys'13 Workshop on Human Decision Making in Recommender Systems, 2013, Hong Kong. Retrieved from http://ceur-ws.org/Vol-1050/paper5.pdf</p>
	<p>Hauger, D., Schedl, M., Košir, A., & Tkalčić, M. (2013). The Million Musical Tweet Dataset: What We Can Learn From Microblogs. ISMIR 2013. Retrieved from http://www.cp.jku.at/people/schedl/Research/Publications/pdf/hauger_ismir_2013.pdf</p>
	<p>Vodlan, T., Tkalčić, M., & Kosir, A. (2013). The Role of Social Signals in Telecommunication : Experimental Design. UMAP 2013 Extended Proceedings. Retrieved from http://ceur-ws.org/Vol-997/empire2013_paper_6.pdf</p>
	<p>Odić, A., Tkalčić, M., Tasić, J. F., & Košir, A. (2013). Personality and Social Context : Impact on Emotion Induction from Movies. UMAP 2013 Extended Proceedings. Retrieved from http://ceur-ws.org/Vol-997/empire2013_paper_5.pdf</p>
	<p>Elahi, M., Braunhofer, M., Ricci, F., & Tkalčić, M. (2013). Personality-based active learning for collaborative filtering recommender systems. AI*IA 2013: Advances in Artificial Intelligence, 360–371. http://doi.org/10.1007/978-3-319-03524-6_31</p>
	<p><i>Tkalčić, M., Burnik, U., Odić, A., Košir, A., & Tasić, 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. http://doi.org/10.1007/978-3-642-37169-1_14</i></p>
	<p>Ferwerda, B., Schedl, M., & Tkalčić, M. (2014). To Post or Not to Post : The Effects of Persuasive Cues and Group Targeting Mechanisms on Posting Behavior. 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</p>
	<p>Košir, A., Odić, A., Tkalčić, M., & Svetina, M. (2014). Human decisions in user modeling : motivation , procedure and example application. UMAP 2014 Extended Proceedings. Retrieved from http://ceur-ws.org/Vol-1181/empire2014_paper_03.pdf</p>
	<p>Farrahi, K., Schedl, M., Vall, A., Hauger, D., & Tkalčić, 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</p>
	<p>Schedl, M., & Tkalčić, M. (2014). Genre-based Analysis of Social Media Data on Music Listening Behavior. In Proceedings of the First International Workshop on Internet-Scale Multimedia Management - WISMM '14 (pp. 9–13). New York, New York, USA: ACM Press. http://doi.org/10.1145/2661714.2661717</p>
	<p><i>Tkalčić, 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. UMAP 2014 Extended Proceedings, 1181. Retrieved from http://ceur-ws.org/Vol-1181/empire2014_paper_06.pdf</i></p>
	<p>Schedl, M., Hauger, D., Farrahi, K., & Tkalčić, M. (2015). On the Influence of User Characteristics on Music Recommendation Algorithms. Advances in Information Retrieval Lecture Notes in Computer Science, 9022, 339–345. Retrieved from http://link.springer.com/chapter/10.1007/978-3-319-16354-3_37</p>
	<p>Ferwerda, B., Yang, E., Schedl, M., & Tkalčić, 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). http://doi.org/10.1145/2702613.2732754</p>
	<p><i>Tkalčić, M., Ferwerda, B., Hauger, D., & Schedl, M. (2015). Personality Correlates for Digital Concert Program Notes. UMAP 2015, LNCS 9146, 364–369. http://doi.org/10.1007/978-3-319-20267-9_32</i></p>

Publications about the applicant	<ul style="list-style-type: none"> • 2007: Italian local TV coverage of the P2PME project including an interview with the applicant (in Italian) http://www.flashvideo.it/video/scheda/731/ • 2008: Slovenian financial newspaper Finance coverage of the P2PME project http://www.finance.si/215880 • 2009: Slovenian financial newspaper Finance covering hybrid methods for multimedia retrieval http://www.finance.si/240422 • 2009: Slovenian financial newspaper finance discussing the international achievements of Slovenian researchers http://www.finance.si/240420 • 2012: interview with the ArtistTalk portal about researchers' relationships between art and science 												
Further data	<table border="1"> <thead> <tr> <th data-bbox="483 688 630 716">Type</th> <th data-bbox="630 688 1365 716">Presentation</th> </tr> </thead> <tbody> <tr> <td data-bbox="483 716 630 842">accepted short paper (will be given in July 2015)</td> <td data-bbox="630 716 1365 842">Tkalčič, M., Ferwerda, B., Hauger, D., & Schedl, M. (2015). Personality Correlates for Digital Concert Program Notes. In <i>UMAP 2015, Lecture Notes On Computer Science 9146</i> (pp. 364–369). http://doi.org/10.1007/978-3-319-20267-9_32</td> </tr> <tr> <td data-bbox="483 842 630 1024">invited talk</td> <td data-bbox="630 842 1365 1024">Tkalčič, M., de Gemmis, M., & Semeraro, G. (2014). Personality and Emotions in Decision Making and Recommender Systems. In M. Ge & F. Ricci (Eds.), <i>Proceedings of the First International Workshop on Decision Making and Recommender Systems (DMRS2014) Bolzano, Italy, September 18-19, 2014</i>. Retrieved from http://ceur-ws.org/Vol-1278/paper3.pdf</td> </tr> <tr> <td data-bbox="483 1024 630 1178">accepted paper at workshop</td> <td data-bbox="630 1024 1365 1178">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.), <i>UMAP 2014 Extended Proceedings</i> (Vol. 1181). Retrieved from http://ceur-ws.org/Vol-1181/empire2014_paper_06.pdf</td> </tr> <tr> <td data-bbox="483 1178 630 1331">accepted paper at workshop</td> <td data-bbox="630 1178 1365 1331">Schedl, M., & Tkalčič, M. (2014). Genre-based Analysis of Social Media Data on Music Listening Behavior. In R. Zimmerman & Y. Yu (Eds.), <i>Proceedings of the First International Workshop on Internet-Scale Multimedia Management - WISMM '14</i> (pp. 9–13). New York, New York, USA: ACM Press. http://doi.org/10.1145/2661714.2661717</td> </tr> <tr> <td data-bbox="483 1331 630 1484">accepted paper at conference</td> <td data-bbox="630 1331 1365 1484">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.), <i>Conference Proceedings - IEEE International Conference on Systems, Man and Cybernetics</i> (pp. 3321–3326). http://doi.org/10.1109/ICSMC.2012.6378304</td> </tr> </tbody> </table>	Type	Presentation	accepted short paper (will be given in July 2015)	Tkalčič, M., Ferwerda, B., Hauger, D., & Schedl, M. (2015). Personality Correlates for Digital Concert Program Notes. In <i>UMAP 2015, Lecture Notes On Computer Science 9146</i> (pp. 364–369). http://doi.org/10.1007/978-3-319-20267-9_32	invited talk	Tkalčič, M., de Gemmis, M., & Semeraro, G. (2014). Personality and Emotions in Decision Making and Recommender Systems. In M. Ge & F. Ricci (Eds.), <i>Proceedings of the First International Workshop on Decision Making and Recommender Systems (DMRS2014) Bolzano, Italy, September 18-19, 2014</i> . Retrieved from http://ceur-ws.org/Vol-1278/paper3.pdf	accepted paper at workshop	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.), <i>UMAP 2014 Extended Proceedings</i> (Vol. 1181). Retrieved from http://ceur-ws.org/Vol-1181/empire2014_paper_06.pdf	accepted paper at workshop	Schedl, M., & Tkalčič, M. (2014). Genre-based Analysis of Social Media Data on Music Listening Behavior. In R. Zimmerman & Y. Yu (Eds.), <i>Proceedings of the First International Workshop on Internet-Scale Multimedia Management - WISMM '14</i> (pp. 9–13). New York, New York, USA: ACM Press. http://doi.org/10.1145/2661714.2661717	accepted paper at conference	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.), <i>Conference Proceedings - IEEE International Conference on Systems, Man and Cybernetics</i> (pp. 3321–3326). http://doi.org/10.1109/ICSMC.2012.6378304
Type	Presentation												
accepted short paper (will be given in July 2015)	Tkalčič, M., Ferwerda, B., Hauger, D., & Schedl, M. (2015). Personality Correlates for Digital Concert Program Notes. In <i>UMAP 2015, Lecture Notes On Computer Science 9146</i> (pp. 364–369). http://doi.org/10.1007/978-3-319-20267-9_32												
invited talk	Tkalčič, M., de Gemmis, M., & Semeraro, G. (2014). Personality and Emotions in Decision Making and Recommender Systems. In M. Ge & F. Ricci (Eds.), <i>Proceedings of the First International Workshop on Decision Making and Recommender Systems (DMRS2014) Bolzano, Italy, September 18-19, 2014</i> . Retrieved from http://ceur-ws.org/Vol-1278/paper3.pdf												
accepted paper at workshop	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.), <i>UMAP 2014 Extended Proceedings</i> (Vol. 1181). Retrieved from http://ceur-ws.org/Vol-1181/empire2014_paper_06.pdf												
accepted paper at workshop	Schedl, M., & Tkalčič, M. (2014). Genre-based Analysis of Social Media Data on Music Listening Behavior. In R. Zimmerman & Y. Yu (Eds.), <i>Proceedings of the First International Workshop on Internet-Scale Multimedia Management - WISMM '14</i> (pp. 9–13). New York, New York, USA: ACM Press. http://doi.org/10.1145/2661714.2661717												
accepted paper at conference	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.), <i>Conference Proceedings - IEEE International Conference on Systems, Man and Cybernetics</i> (pp. 3321–3326). http://doi.org/10.1109/ICSMC.2012.6378304												
Entrepreneurship	<p>Spin-offs, patents and entrepreneurship</p> <p>NA</p>												
Statement of interest	<p>My research interests lie in the domain of personalized services (especially recommender systems). My aim is to improve the performance of such services by looking more closely at the user's characteristics. The main approach in my research is the introduction of psychological constructs, which carry more information about the user, in the personalization/</p>												

recommendation process.

The story of personalized systems is, in a way, similar to the story of 20th-century psychology. Until the end of the 1950s, the dominating current was behaviorism, where the focus was on the observation and analysis of human behavior, without taking into account the underlying driver, the human mind. However, after the Skinner-Chomsky debate in 1957, a new, deeper, approach to studying psychology emerged in the form of cognitive psychology, which takes into account the underlying elements of behavior (i.e., attention, memory, language and other mental processes) to build a more comprehensive psychological model.

The domain of recommender systems emerged in the mid-1990s with early collaborative-filtering techniques (Konstan et al, 1997, Resnick and Varian, 1997). As defined in the milestone paper by Adomavicius and Tuzhilin (2005), recommender systems aimed at predicting the ratings for items (products) that the user has not yet seen (or purchased/consumed). This research was trying to extract as much information as possible from the data that was available through logging the user actions on the server-side of various services (the *behaviorism* approach). The climax of this line of research was the Netflix contest, where the winner team was awarded a \$1m prize for predicting the ratings of movies with the minimal error (Bell et al., 2007).

Today, at the end of 2014, the recommender-systems community (and the user-modeling community in general) is much more aware of the deeper and more complex mechanisms that occur in users' minds and have as a result a rating or an online purchase. Evaluation measures have evolved from accuracy-based to user-experience-based methods (Knijnenburg et al., 2012). Personality plays a role in adjusting the diversity of recommended items (Wu and Chen, 2013). Emotions are used to personalize recommendations (e.g. music, as in Janssen et al., 2011).

What happened in between?

I was fortunate enough to recognize the need for a deeper understanding of users in the recommendation process during my PhD study in the first years after the Netflix prize. I started to investigate how to use emotions and personality to improve recommendations (i.e., the *cognitive* approach). The results of my work have been published in high-impact-factor journals, such as Elsevier Information Sciences (2013 IF = 3.9), Springer User Modeling and User-adapted Interaction (2010 IF = 3.1), IEEE Transactions on Multimedia (2013 IF = 1.8), Springer Multimedia Tools and Applications (2013 IF = 1.1) and others as well as at conferences and workshops. It also had an impact on industry with a live working news affective recommender system in place based on my research work (<http://epoznan.pl>).

I started investigating how to exploit the variance in users' emotions to improve recommendations. I first devised an affective content-based recommender system model for images (Tkalčić et al., 2010). The underlying hypothesis was that there is variance in the users' preferences for elicited emotions. Based on the outcomes of a user study, I built a model for recommending personalized images using the users' preferred emotions with Support Vector Machines.

In order to detect the users' emotions unobtrusively (for the affective recommender system) I based my emotion detection algorithm from facial videos on the excellent work from the affective computing community. Unlike most of the work on emotion detection at the time, which used datasets with acted emotional responses in good lighting conditions, I used a dataset of real users, with random lighting and face occlusions. I evaluated my algorithm, based on Gabor features and the kNN classifier, on a posed dataset and a real users' dataset and discussed the outcomes in (Tkalčič et al., 2013a). The joint effect of the automatic affective labeling on the recommender system was presented in (Tkalčič et al., 2013b).

In another line of research, I investigated the possibility of exploiting personality to address recommender-systems issues. I used personality to calculate user similarities in a collaborative filtering recommender system to alleviate the new user problem (Tkalčič et al., 2009, Tkalčič et al., 2011). Although there was criticism at the time, that having to acquire personality scores through extensive questionnaires poses another new user problem (hence the non-prestigious publishing venues) it is today clear that personality can be acquired implicitly from social media (Kosinski et al., 2013).

One of the main difficulties in the described work was the lack of data. As said earlier, the recommender systems research prior to the Netflix competition was based on data available from service providers. However, for the hypotheses I wanted to investigate, a new set of data needed to be acquired. I put substantial efforts into designing the user study with which I collected the necessary data to perform the recommender-systems experiments. The dataset, called LDOS-PerAff-1, is presented in (Tkalčič et al., 2013c)

Beside emotions and personality, I investigated how to use social signals in recommender systems. We devised a conversational system for recommending movies that exploits the social signal of *hesitation* as implicit feedback when adjusting the diversity of the recommended items (Vodlan et al., 2014).

Beside my work on user-centric recommendations, I continued to do research work on algorithmic recommender-systems domains, especially on context-aware recommendations. We developed a statistical approach to identify the relevant features to use as contextual features (Odić et al., 2013).

Current work

After having shown, through a series of experiments, that psychological constructs can improve the performance of recommender systems I started to put more efforts into service work by trying to bring similar (but scattered) research work under a common umbrella.

I started to organize a series of workshops entitled *Emotions and Personality in Personalized Systems* (EMPIRE), which had two editions at the UMAP 2013 and UMAP 2014 conferences. We plan to submit the proposal for the third edition to the RecSys 2015 conference.

As a spin-off from the first edition of the workshop, the Springer publishing house invited me to edit a volume on the topic. The book is planned to appear at the end of 2015.

I was invited by the editor of the Springer User Modeling and User-adapted Interaction (UMUAI) journal to be the guest-editor of two special issues: one on *personality in personalized systems* (planned publication in early 2016) and one on *physiology in personalized systems* (planned publication in mid-2016).

I had the honor to be one of the invited speakers at the *International Workshop on Decision Making and Recommender Systems* this September in Bolzano (Italy), along with respected speakers such as Ido Erev (one of the main collaborators of the 2012 Nobel Prize winner Alvin E. Roth) from Technion (Israel), Coty Gonzalez (CMU) and others. The title of my talk was *Decision Making, Personality and Emotions in Recommender Systems*.

Based on my work on personality, the editors of the Springer Recommender Systems Handbook invited me to contribute a chapter on personality in recommender systems for the second edition.

Beside the service work, I am currently investigating the relationships between personality and taxonomies of music visualization in music-streaming services. We conducted a user study and the report on the preliminary results is under review at the CHI 2015 conference.

A second line of research is the investigation of the relation between mood regulation with music and personality. The goal of this research is to establish a personality-based user model for recommending music based on the current mood of the user. The preliminary results of the user study show interesting patterns (e.g., people who score high on neuroticism tend to prefer sad music when they are sad). This report is also under review at the CHI 2015 conference.

I also investigated the clustering of users for improving music recommendations. We observed some psychology-motivated behavioral features, such as diversity and mainstreamness and used them to improve the accuracy of a music recommender system. This work has been presented at the ISMIR 2014 conference.

Future work

I am interested to proceed further with my research agenda – improving personalized recommendations with user-centric insights from psychology. Besides working on manageable experiments, combining single psychological constructs with a single recommender system issue, I would like to be able to combine the research outcomes in more holistic approaches.

I am currently preparing a research project where I will investigate the optimal balance in music playlist recommendations between known/unknown (e.g., personalized/diverse, short head/long tail etc.) in relationship to the users' personalities and musical sophistication.

One of the gaps that I never started to address is the involvement of the social aspect, i.e., the psychological constructs from social psychology that are supposed to explain lots of variance in end users. The advent of social networking sites offers immense opportunities.

A research priority is to make the research work so mature that it can have more impact on industry than it has had until now.

The methods for achieving this will combine user studies for early modeling of simple relationships and collaboration with complementary researchers to bring the prototypes closer to the industry and to end users.

References

- Adomavicius, G., & Tuzhilin, a. (2005). Toward the next generation of recommender systems: a survey of the state-of-the-art and possible extensions. *IEEE Transactions on Knowledge and Data Engineering*, 17(6), 734–749. doi:10.1109/TKDE.2005.99
- Bell, R. M., Koren, Y., & Volinsky, C. (2007). The BellKor solution to the Netflix Prize A factorization model.
- Janssen, J. H., Broek, E. L., & Westerink, J. H. D. M. (2011). Tune in to your emotions: a robust personalized affective music player. *User Modeling and User-Adapted Interaction*. doi:10.1007/s11257-011-9107-7
- Konstan, J., Miller, B., & Maltz, D. (1997). GroupLens: applying collaborative filtering to Usenet news. *Communications of the ACM*, 40(3), 77–87. Retrieved from <http://dl.acm.org/citation.cfm?id=245126>
- Kosinski, M., Stillwell, D., & Graepel, T. (2013). Private traits and attributes are predictable from digital records of human behavior. *Proceedings of the National Academy of Sciences*, 2–5. doi:10.1073/pnas.1218772110
- Knijnenburg, B. P., Willemsen, M. C., Gantner, Z., Soncu, H., & Newell, C. (2012). Explaining the user experience of recommender systems. *User Modeling and User-Adapted Interaction*, 22(4-5), 441–504. doi:10.1007/s11257-011-9118-4
- Odić, A., Tkalčič, M., Tasic, J. F., & Košir, A. (2013). Predicting and Detecting the Relevant Contextual Information in a Movie-Recommender System. *Interacting with Computers*, 25(1), 74–90. doi:10.1093/iwc/iws003
- Resnick, P., & Varian, H. R. (1997). Recommender systems. *Communications of the ACM*, 40(3), 56–58. Retrieved from <http://portal.acm.org/citation.cfm?id=245121>
- Tkalčič, M., Kunaver, M., Tasič, J., & Košir, A. (2009). Personality Based User Similarity Measure for a Collaborative Recommender System. *5th Workshop on Emotion in Human-Computer Interaction-Real World Challenges*, 30.
- Tkalčič, M., Burnik, U., & Košir, A. (2010). Using affective parameters in a content-based recommender system for images. *User Modeling and User-Adapted Interaction*, 20(4), 279–311. doi:10.1007/s11257-010-9079-z
- Tkalčič, M., Kunaver, M., Košir, A., & Tasic, J. (2011). Addressing the new user problem with a personality based user similarity measure. *Workshop on User Models for Motivational Systems: The Affective and the Rational Routes to Persuasion*, UMAP 2011
- Tkalčič, M., Odić, A., & Košir, A. (2013a). 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. doi:10.1016/j.ins.2013.06.006

	<p>Tkalčič, M., Odic, A., Kosir, A., & Tasic, J. (2013b). Affective Labeling in a Content-Based Recommender System for Images. <i>IEEE Transactions on Multimedia</i>, 15(2), 391–400. doi:10.1109/TMM.2012.2229970</p> <p>Tkalčič, M., Košir, A., & Tasič, J. (2013c). The LDOS-PerAff-1 corpus of facial-expression video clips with affective, personality and user-interaction metadata. <i>Journal on Multimodal User Interfaces</i>, 7(1-2), 143–155. doi:10.1007/s12193-012-0107-7</p> <p>Wu, W., Chen, L., & He, L. (2013). Using personality to adjust diversity in recommender systems. <i>Proceedings of the 24th ACM Conference on Hypertext and Social Media - HT '13</i>, (May), 225–229. doi:10.1145/2481492.2481521</p>																																																						
Language competence	<table border="1"> <tr> <td data-bbox="480 642 695 678">Mother tongue(s)</td> <td colspan="5" data-bbox="695 642 1373 678">Slovenian</td> </tr> <tr> <td data-bbox="480 678 695 722"></td> <td colspan="5" data-bbox="695 678 1373 722"></td> </tr> <tr> <td data-bbox="480 722 695 766">Other language(s)</td> <td colspan="2" data-bbox="695 722 959 766">UNDERSTANDING</td> <td colspan="2" data-bbox="959 722 1239 766">SPEAKING</td> <td data-bbox="1239 722 1373 766">WRITING</td> </tr> <tr> <td data-bbox="480 766 695 825"></td> <td data-bbox="695 766 829 825">Listening</td> <td data-bbox="829 766 959 825">Reading</td> <td data-bbox="959 766 1094 825">Spoken interaction</td> <td data-bbox="1094 766 1239 825">Spoken production</td> <td data-bbox="1239 766 1373 825"></td> </tr> <tr> <td data-bbox="480 825 695 863">Italian</td> <td data-bbox="695 825 829 863">C2</td> <td data-bbox="829 825 959 863">C2</td> <td data-bbox="959 825 1094 863">C2</td> <td data-bbox="1094 825 1239 863">C2</td> <td data-bbox="1239 825 1373 863">C2</td> </tr> <tr> <td data-bbox="480 863 695 900">English</td> <td data-bbox="695 863 829 900">C1</td> <td data-bbox="829 863 959 900">C2</td> <td data-bbox="959 863 1094 900">C1</td> <td data-bbox="1094 863 1239 900">C2</td> <td data-bbox="1239 863 1373 900">C2</td> </tr> <tr> <td data-bbox="480 900 695 938">Croatian</td> <td data-bbox="695 900 829 938">B2</td> <td data-bbox="829 900 959 938">B2</td> <td data-bbox="959 900 1094 938">B1</td> <td data-bbox="1094 900 1239 938">B1</td> <td data-bbox="1239 900 1373 938">A2</td> </tr> <tr> <td data-bbox="480 938 695 976">German</td> <td data-bbox="695 938 829 976">A1</td> <td data-bbox="829 938 959 976">A1</td> <td data-bbox="959 938 1094 976">A1</td> <td data-bbox="1094 938 1239 976">A1</td> <td data-bbox="1239 938 1373 976">A1</td> </tr> <tr> <td data-bbox="480 976 695 1056"></td> <td colspan="5" data-bbox="695 976 1373 1056"> Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user Common European Framework of Reference for Languages </td> </tr> </table>	Mother tongue(s)	Slovenian											Other language(s)	UNDERSTANDING		SPEAKING		WRITING		Listening	Reading	Spoken interaction	Spoken production		Italian	C2	C2	C2	C2	C2	English	C1	C2	C1	C2	C2	Croatian	B2	B2	B1	B1	A2	German	A1	A1	A1	A1	A1		Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user Common European Framework of Reference for Languages				
Mother tongue(s)	Slovenian																																																						
Other language(s)	UNDERSTANDING		SPEAKING		WRITING																																																		
	Listening	Reading	Spoken interaction	Spoken production																																																			
Italian	C2	C2	C2	C2	C2																																																		
English	C1	C2	C1	C2	C2																																																		
Croatian	B2	B2	B1	B1	A2																																																		
German	A1	A1	A1	A1	A1																																																		
	Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user Common European Framework of Reference for Languages																																																						

Ljubljana, 20. May.2015

Marko Tkalčič



Data protection code in compliance with art. 13 of Legislative Decree no. 196/2003

Dear Sir or Madam,

According to the provisions of the Legislative Decree no. 196/2003 (hereinafter referred to as "Privacy code") and its subsequent amendments, the Free University of Bolzano in the quality of the owner of the data processing is required to provide you with some information concerning the use of your personal data.

According to art. 13 of the Privacy code, we will inform you about the following:

- a) Your personal data you provided to the owner of the data processing will be used in adherence to the Privacy code as well as in accordance with the obligation to observe secrecy, which the University has always to comply with.
- b) The processing of personal data will be exclusively finalized to fulfill the institutional duties of the University as well as to carry out all the tasks related to the procedure of expression of interests you submitted the documentation for.
- c) The processing of personal data will ensure your safety as well as your privacy in adherence to the Privacy code and the Technical Regulation about minimum safety measures – attachment B) of Legislative Decree n. 196/2003: the processing of personal data will be carried out through manual transactions and/or using digital and telematics instruments capable of storing, processing or transmitting the data itself.
- d) Your personal data will be saved for a timeframe that will not exceed the required time to fulfill the indicated purposes and anyway only for the strictly necessary time length to comply with the duties prescribed by the law: when this timeframe expires the personal data will be destroyed or turned into anonymous data or - in any case – they will be treated according to art. 16 of the Privacy code.
- e) Your personal data transmitted to us are essential for the correct running of the operations related to the procedure of expression of interest you are applying for. Providing the personal data is legally required. Your refusal to provide them, the lack of consensus for processing them when necessary or your withdrawal of the consensus may therefore prevent the smooth running of the operations of your direct interest causing the impossibility to proceed in your submitted request.
- f) The processing of the collected personal data may be carried out by our specially appointed and adequately trained employees in full compliance with the provisions of the Privacy code. Your personal data may be also processed by subjects entitled by the law or secondary legislation. In adherence to art. 19 of the above mentioned decree, your data may be transmitted to another public institution in order to verify the declarations in lieu of certificate (see art. 71 of D.P.R. 445/2000). The data could be furthermore transmitted to the following subjects:
 - to the competent authorities at the end of the procedure for the published job assignment;
 - to all the subjects who must/can receive communication about them;
 - to all the subjects who are entitled to access to your data.
- g) The owner of the data processing is the Free University of Bolzano, registered office "Piazzetta Innerhofer n. 8, Bolzano" in the person of the President and legal representative pro tempore.

h) We inform you that art. 7 of the Privacy Code (see the whole text here attached) gives you the possibility to exercise your rights concerning your personal data which were processed by this University e.g. the interested person can obtain from the owner of the data confirmation about their existence and can also request to have them at his own disposal in an intelligible form. The interested person can furthermore ask for information about the origins of the data, the logic behind and the purposes on which it is based their processing; he has also the following right:

- obtaining the cancellation of them
- asking for turning them into an anonymous form
- stopping the data which have been processed against the law.

The interested person can also ask for updating, rectifying or – when necessary -integrating the data by addressing a written communication to the owner of the data processing, Free University of Bolzano, Franz Innerhoferplatz 8. Phone. +39 0471 011300; Fax +39 0471 011309, E-Mail: privacy@unibz.it; PEC: administration@pec.unibz.it

Legislative Decree no. 196/2003

Art. 7 (right to have access to personal data and other rights)

1. The interested party has the right to receive the confirmation of the existing personal data about himself (even if the data are not yet registered) and their communication in comprehensible form

2. The interested party has the right to receive the following information:

a) origin of the personal data

b) purposes of the personal data and how these will be treated

c) the logical explanation applied in case the treatment is carried out with the support of electronic instruments

d) the personal details necessary to identify the holder of the treatment - or other subjects in charge for them, as well as the appointed representatives according to art. 5. – paragraph 2;

e) subjects/categories of subjects who can receive communication about personal data or can learn about them as appointed representatives in the State's territory; other subjects who are holders of personal data or in charge for their processing.

3. The interested party has the right to obtain the following:

a) updating, rectification or - if interested - integration of data

b) the cancellation, transformation in anonymous form or blocking of the data processed unlawfully, including data which does not need to be kept since they are not related to the original purposes for which they have been collected or subsequently treated;

c) certification that the operations as per letters a) and b) have been notified to the subjects to whom the data were communicated (as far as the contents are concerned), unless this requirement proves to be impossible or involves a manifestly disproportionate effort compared with the right that is to be protected.

4. The interested party has the right to oppose (in whole or in part):

a) for legitimate reasons, the processing of his personal data, even though pertinent to the purpose of gathering and holding them;

b) the processing of his personal data for sending advertising material or for direct sales or for carrying out market research or business communication.