

# Publications

## Peer Reviewed Journal Papers and Conference Full Papers

Hebesberger, D., Koertner, T., Gisinger, C., & Pripfl, J. (2017). A Long-Term Autonomous Robot at a Care Hospital: A Mixed Methods Study on Social Acceptance and Experiences of Staff and Older Adults. *Int J of Soc Robotics*, 1-13. DOI:10.1007/s12369-016-0391-6

Gisinger, C., & Pripfl, J. (2016). Alter schützt vor Technik nicht?! Age is no protection against technology?! Editorial in *Z Gerontol Geriatr* 49(4), 271. DOI:10.1007/s00391-016-1073-6

Pripfl, J., Körtner, T., Batko-Klein, D., Hebesberger, D., Weninger, M., & Gisinger, G. (2016). Social Service Robots to Support Independent Living: Experiences from a Real-World Field Trial. *Z Gerontol Geriatr*. 49(4), 282-7. DOI: 10.1007/s00391-016-1067-4

Vincze, M., Fischinger, D., Bajones, M., Wolf, D., Suchi, M., Lammer, L., Weiss, A., Pripfl, J., Koertner, T., & Gisinger, C. (2016). What Older Adults would Like a robot to Do in Their Homes - First results from a User Study in the Homes of Users. The 47st International Symposium on Robotics (ISR 2016), June 21-22, Munich, Germany.

Vincze, M., Wolf, D., Bajones, M., Weiss, A., Suchi, M., Fischinger, D., Pripfl, J., & Gisinger, C. (2016). First results of Studying Human Robot Interaction in the Wild - The Hobbit Robot Tested by Older Adults at Home. The Ninth International Conference on Advances in Computer-Human Interactions (ACHI 2016), April 24-28, Venice, Italy.

Hebesberger D., Dondrup C., Koertner T., Gisinger Ch., & Pripfl J. (2016): Lessons learned from the deployment of a long-term autonomous robot as companion in physical therapy for older adults with dementia. A Mixed Methods Study. The 11th ACM/IEEE International Conference on Human-Robot Interactions (HRI 2016), March 7-10, Christchurch, New Zealand.

Hebesberger, D., Körtner, T., Hanheide, M., Pripfl, J., & Gisinger, Ch. (2015). What do staff in eldercare want a robot for? An assessment of potential tasks and user requirements for a long-term deployment. The 2015 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), September 28 - October 02, Hamburg, Germany.

\*Pfabigan, D. M., \*Pripfl, J., Kroll, S. L., Sailer, U., & Lamm, C. (2015). Event-related potentials in performance monitoring are influenced by the endogenous opioid system. *Neuropsychologia*, 77, 242-252. DOI: 10.1016/j.neuropsychologia.2015.08.028. (\* Equal Contributions)

Goerlich-Dobre, K.S., Lamm, C., Pripfl, J., Habel, U., & Votinov, M. (2015). The left amygdala: A shared substrate of alexithymia and empathy. *NeuroImage* 08/2015; DOI:10.1016/j.neuroimage.2015.08.014

Goerlich-Dobre, K.S., Votinov, M., Habel, U., Pripfl, J., & Lamm, C. (2015). Neuroanatomical profiles of alexithymia dimensions and subtypes. *Human Brain Mapping* 06/2015; DOI:10.1002/hbm.22879

Votinov, M., Pripfl, J., Windischberger, C., Moser, E., Sailer, U., & Lamm, C. (2015). A functional polymorphism in the prodynorphin gene affects cognitive flexibility and brain activation during reversal learning. *Frontiers in Behavioral Neuroscience* 08/2015; 1(9). DOI:10.3389/fnbeh.2015.00172

Votinov, M., Pripfl, J., Windischberger, C., Sailer, U., & Lamm, C. (2015). Better you lose than I do: neural networks involved in winning and losing in a real time strictly competitive game. *Scientific Reports*, 5. DOI: 10.1038/srep11017

Pripfl, J., & Lamm, C. (2015). Focused transcranial direct current stimulation (tDCS) over the dorsolateral prefrontal cortex modulates specific domains of self-regulation. *Neuroscience Research*, 91(1), 41-47. DOI:10.1016/j.neures.2014.09.007

Votinov, M., Pripfl, J., Windischberger, C., Kalcher, K., Zimprich, A., Zimprich, F., Moser, E., Lamm, C., & Sailer, U. (2014). A genetic polymorphism of the endogenous opioid dynorphin modulates monetary reward anticipation in the corticostriatal loop. *PLoS ONE* 9(2), e89954. DOI:10.1371/journal.pone.0089954.

Pripfl, J., Tomova, L., Rieicansky, I., & Lamm, C. (2014). Transcranial magnetic stimulation of the left dorsolateral prefrontal cortex decreases cue-induced nicotine craving and EEG delta power. *Brain Stimulation*. 7(2):226-233

Pripfl, J., Neumann, R., Köhler, U., & Lamm, C. (2013). Effects of transcranial direct current stimulation on risky decision making are mediated by "hot" and "cold" decisions, personality, and hemisphere. *European Journal of Neuroscience*, 38(12), 3778-3785. DOI: 10.1111/ejn.12375.

Robinson, S., Pripfl, J., Bauer, H., & Moser, E. (2008). The impact of EPI voxel size on SNR and BOLD sensitivity in the anterior medio-temporal lobe: a comparative group study of deactivation of the Default Mode. *MAGMA*. 21(4):279-90.

Pripfl, J., Robinson, S., Leodolter, U., Moser, E., & Bauer, H. (2006). DC-EEG reveals the effect of fMRI scanner noise on noise-sensitive subjects. *Neuroimage*, 31(1):332-41.

Pivec, M., Trummer, C., & Pripfl, J. (2006). Eye-Tracking Adaptable e-Learning and Content Authoring Support. *Informatica*, 30(1): 83-86.

Pivec, M., Pripfl, J., & Trummer, C. (2005). Adaptable Features and needed Content Authoring Support. *The World Conference on E-Learning in Corporate, Government, Healthcare, & Higher Education (E-Learn 2005)*, October 24-28, Vancouver, Canada.

Pivec, M., Trummer, C., & Pripfl, J. (2005). Eye-Tracking Adaptable e-Learning and Content Authoring Support. *The INFORMATION SOCIETY 2005 8. International multiconference*, October 10-17, Ljubljana, Slovenija.

Pivec, M., Pripfl, J., & Trummer, C. (2005). The future is now?! *The 2nd Joint Workshop of Cognition and Learning Through Media-Communication for Advanced e-Learning*, September 28-30, Tokio, Japan.

Pivec, M., Pripfl, J., & Trummer, C. (2005). Adaptable E-learning by means of Real-Time Eye-Tracking. *The ED-MEDIA 2005*, June 27 – July 2, Montreal, Canada.

Pivec, M., Pripfl, J., Gütl, C., Garcia-Barrios, V.M., Mödritscher, F., & Trummer, C. (2005). AdeLE First Prototype: Experiences Made. The I-KNOW'05, June 29 – July 1, Graz, Austria.

Pripfl, J., Pivec, M., Trummer, C., & Umgeher, M. (2005). Look into my eyes and I will tell you how to learn. The European Distance and E-Learning Network 2005 Annual Conference, June 21-23, Helsinki, Finland.

Gütl, C., Pivec, M., Trummer, C., García-Barrios, V.M., Mödritscher, F., Pripfl, J., & Umgeher, M. (2005). AdeLE (Adaptive e-Learning with Eye-Tracking): System Architecture and Application Scenarios. *European Journal of Open and Distance Learning*, II/2005.

Flexer, A., Bauer, H., Pripfl, J., & Dorffner, G. (2005). Using ICA for removal of ocular artifacts in EEG recorded from blind subjects. *Neural Networks*, 18(7):998-1005.

Bauer, H., Pripfl, J., Lamm, C., Prainsack, C., & Taylor, N. (2003). Functional Neuroanatomy of Learned Helplessness. *Neuroimage*, 20(2):927-39.

### **Books, Book Chapters, Deliverables (public available)**

Pripfl, J. (2016). Spielerisches kognitives Training zur Verbesserung von Aufmerksamkeit und Multitasking älterer FahrradfahrerInnen. In Eichinger-Vill E.A. & Nowotny, A. (Hrsg.), *Forschungsarbeiten des österreichischen Verkehrssicherheitsfonds*, Band 050. Wien: Bundesministerium für Verkehr, Innovation und Technologie.

Pripfl, J., Brandstätter, C., Knowles, D., & Gatscha, M. (2010). Evaluation der zweiten Ausbildungsphase im Rahmen des Führerscheinklasse A Erwerbs. In G. Gürtlich & B. Zweiler (Hrsg.), *Forschungsarbeiten des österreichischen Verkehrssicherheitsfonds*, Band 001. Wien: Bundesministerium für Verkehr, Innovation und Technologie.

Pripfl, J., Aigner-Breuss, E., Fördös, A., & Wiesauer, L. (2010). Verkehrsmittelwahl und Verkehrsinformation: Emotionale und Kognitive Mobilitätsbarrieren und deren Beseitigung mittels multimodalen Verkehrsinformationssystemen - EKoM Endbericht. Wien: Kuratorium für Verkehrssicherheit.

Gatscha, M., Brandstätter, C., & Pripfl, J. (2010). Video-based feedback for learner and novice drivers. A small-scale ND field trial in Austria. PROLOGUE Deliverable D3.3. Test & Training International, Teesdorf bei Baden, Austria.

Anund, A., Larsson, J., Dukic, T., Pausie, A., Gadegbeku, B., Tardy, H., Eleni, C., Ferrarini, C., Aigner-Breuss, E., Pripfl, J., & Jankowska, D. (2010) Accident analysis report. SafeWay2School Deliverable D1.4. VTI, Linköping, Sweden.

Pivec, M., Pripfl, J., Umgeher, M., & Trummer, C. (2005). The Pupils' Pupils. In G. Chiazesse, M. Allegra, A. Chifari and S. Ottaviano (Eds.), *Methods and Technologies for Learning*. Ashurst Southampton, WIT Press.

### **Monographs (unpublished)**

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Pripfl, J. (2004). *Neuronal Correlates of Learned Helplessness*. Dissertation, Universität Wien.

Pripfl, J. (2001). *DC-Topographien beim Erwerb von räumlichem Wissen in einem mittels der Shannon'schen Informationstheorie berechneten virtuellen Labyrinth*. Diplomarbeit, Universität Wien.

### **Symposia**

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Symposium (chaired with Igor Rieicansky, Social, Cognitive and Affective Neuroscience Unit, Vienna, Austria): *Exploring the Biological Mechanisms of Decision Making by Brain Stimulation*. 55th Conference of Experimental Psychologists ("TeaP: Tagung experimentell arbeitender Psychologen"), Vienna, Austria, March 24-27, 2013

### **Talks (invited talks, conference talks, speaker underlined)**

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Pripfl, J. (2016). *Cognitive Enhancement: Opportunities and limits of new technologies*. AAL Austria Seminar Series, October 6<sup>th</sup>, Vienna, Germany.

Gunzer, W., Peterseil, M., Ohrenberger, G., Berger, G., Sturtzel, B., Pripfl, J., Neurohr, P., Scheitz, W., Neuhold, B., Maunz, S. & Pail, E. (2015). *GUSTAA -*

Olfactory and multi-sensory training to increase appetite in the elderly. The Active Healthy Aging Conference 2015, September 02-05, Magdeburg, Germany.

Gunzer, W., Peterseil, M., Ohrenberger, G., Berger, G., Sturtzel, B., Pripfl, J., Neurohr, P., Scheitz, W., Neuhold, B., Maunz, S. & Pail, E. (2015). GUSTAA - Geruchs- und Sensorisches Training zur Appetitsteigerung im Alter. Forum AGE/ING Graz 2015, October 22-24, Graz, Austria.

Pripfl, J., & Lamm, C. (2013). Cognitive control of emotion in risky decision making: hemispheric lateralization of dorsolateral prefrontal cortex function. The 3<sup>rd</sup> Transfer-of-knowledge conference of CompCog, July 3-5, Vienna, Austria.

Pripfl, J., & Lamm, C. (2013). The involvement of the DLPFC in risky decision making: A transcranial direct current stimulation study. 55th Conference of Experimental Psychologists ("TeaP – Tagung experimentell arbeitender Psychologen"), March 24-27, Vienna, Austria.

Tomova, L., Pripfl, J., & Lamm, C. (2013). Using TMS to treat smoking addiction: Changes of acute effects over time. 55th Conference of Experimental Psychologists ("TeaP – Tagung experimentell arbeitender Psychologen"), March 24-27, Vienna, Austria.

Pripfl, J. (2010). Human Factors Issues at Level Crossings: Some facts and theories from literature. European Commission workshop on Level Crossing Safety, April 15-16, Brussels.

Pripfl, J. (2009). Human Factors bei Eisenbahnkreuzungsunfällen: Ein Überblick über internationale Studienergebnisse. Tagungsband zur Enquete "Sicherheit von Eisenbahnkreuzungen", 7. Juli 2008, Wien, Österreichische Verkehrswissenschaftliche Gesellschaft (ÖVG).

Pripfl, J. (2009). Emotionale und Kognitive Mobilitätsbarrieren und deren Beseitigung mittels multimodalen Verkehrsinformationssystemen. Sommeruniversität Verkehrspsychologie, Mensch im Verkehr: Mobilität – Sicherheit – Lebensqualität, September, Leipzig, Germany.

Gatscha, M., Brandstätter, C., Kaltenecker, A., & Pripfl, J. (2008). Evaluation of the Austrian Multi-Phase Driving Licensing Model. The 8<sup>th</sup> International Conference

Traffic Safety Management for Large Cities, September 4-19, St. Petersburg, Russia.

Winkelbauer, M., & Pripfl, J. (2008). SUPREME: Best Practices in road safety in the member states of the European Union. The 8<sup>th</sup> International Conference Traffic Safety Management for Large Cities, September 4-19, St. Petersburg, Russia.

## **Poster Presentations**

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Pripfl, J., Körtner, T., Hebesberger, D., Batko-Klein, D., Weninger, M., Gisinger, Ch., Frennert, S., Efring, H., Antona, M., Adami, I., Weiss, A., Bajones, M., & Vincze, M. (2016). Results of a Real World Trial with a Mobile Social Service Robot for Older Adults. The 11th ACM/IEEE International Conference on Human-Robot Interactions (HRI 2016), March 7-10, Christchurch, New Zealand.

Goerlich-Dobre, K. S., Habel, U., Pripfl, J., Lamm, C., & Votinov, M. (2015). The left amygdala: A shared substrate of the cognitive alexithymia and empathy dimensions. The 21th Annual Meeting of the Organization for Human Brain Mapping OHBM 2015, June 14-18, Honolulu, Hawaii, USA.

Goerlich-Dobre, K. S., Votinov, M., Habel, U., Pripfl, J., & Lamm, C. (2015). Neuroanatomical profiles of alexithymia dimensions and subtypes. The 21th Annual Meeting of the Organization for Human Brain Mapping OHBM 2015, June 14-18, Honolulu, Hawaii, USA.

Tik, M., Hoffmann, A., Sladky, R., Tomova, L., Hummer, A., Navarro de Lara, L., Biswal, B., Pripfl, J., Lamm, C., Windischberger, C (2015). rTMS over the left DLPFC specifically modulates ACC connectivity within IC network 17. The 21th Annual Meeting of the Organization for Human Brain Mapping OHBM 2015, June 14-18, Honolulu, Hawaii, USA.

Pripfl, J., & Lamm, C. (2013). The right dorsolateral prefrontal cortex controls both: risk-seeking and risk-aversion. The 3rd Neuroscience Vienna Network meeting, November 21, Vienna, Austria.

Pripfl, J., Tomova, L., Rieicansky, I., & Lamm, C. (2013). Using TMS to treat smoking addiction: Behavioral and neural effects. The 53rd Annual Meeting of the Society for Psychophysiological Research (SPR), October 2-6, Florence, Italy.

Pfabigan, D.M.\*, Pripfl, J.\*, Kroll, S.L., Sailer, U., & Lamm, C. (2013). The opioid peptide dynorphin modulates error-related brain responses. Poster presented at the 53rd Annual Meeting of the Society for Psychophysiological Research (SPR), October 2-6, Florence, Italy. (\* equal contributions)

Pripfl, J., & Lamm, C. (2013). Controlling emotions in risky decision making: involvement of the right but not the left dorsolateral prefrontal cortex. The Society for Neuroeconomics 2013 Annual Conference, September 27-29, Lausanne, Switzerland.

Votinov M., Pripfl, J., Windischberger, C., Kalcher, K., Zimprich, A., Zimprich, F., Moser, E., Lamm, C., & Sailer, U. (2013). A genetic polymorphism of dynorphin modulates monetary reward anticipation. The Society for Neuroeconomics 2013 Annual Conference, September 27-29, Lausanne, Switzerland.

Pripfl, J., Votinov, M., Markey, P., Link, E. M., Windischberger, C., Moser, E., Sailer, U., & Lamm, C. (2012). The neural underpinnings of gambling near misses. The 18th Annual Meeting of the Organization for Human Brain Mapping (OHBM2012), June 10-14, Beijing, China.

Votinov, M., Pripfl, J., Link, E. M., Markey, P., Moser, E., Windischberger, C., Lamm, C., & Sailer, U. (2012). An fMRI study of self-other comparison during competition. The 18th Annual Meeting of the Organization for Human Brain Mapping (OHBM2012), June 10-14, Beijing, China.

Porcheron, A., Jenner, W., Pripfl, J., Pivec, M., Binder, M., & Morizot, F. (2009). Perception and gaze behaviour: How do we look at faces? Perception Supplement, 38, p.76.

Pripfl, J., Trummer, C., & Pivec, M. (2006). User Behaviour Detection by Means of Eye-Tracking. Poster Abstracts of the 28th International Conference on Information Technology Interfaces, ITI 2006, pp.17-18.

Robinson, S., Pripfl, J., Bauer, H., & Moser, E. (2006). High Resolution Mapping of the default Mode System. NeuroImage 31, Supplement 1.

Robinson, S., Pripfl, J., Bauer, H., & Moser, E. (2005). Empirical Evidence for the Minimum Voxel Size Required for Reliable 3T fMRI of the Amygdala. NeuroImage 26, Supplement 1.



Pripfl, J., Robinson, S., Moser, E., & Bauer, H. (2004). Correspondence of fMRI BOLD responses and source localisation results of ERP components. *NeuroImage* 22, Supplement 1.

Pripfl, J., Fischmeister, F.P.S., Gerstmayer, A., Leodolter, U., & Bauer, H. (2004). Phylogenetic versus ontogenetic fear-relevant pictures: EEG-source localisation by means of LORETA. *Evoked Potentials International Conference XIV. Leipzig Series in Cognitive Sciences* 5, p. 40. Leipzig: Leipziger Universitätsverlag.

Fischmeister, F.P.S., Pripfl, J., Tschida, U., Leodolter, U., & Bauer, H. (2004). Cortical Areas Related to Depth Perception of Natural Images: a LORETA Analysis. *Evoked Potentials International Conference XIV. Leipzig Series in Cognitive Sciences* 5, p. 109. Leipzig: Leipziger Universitätsverlag.

Pripfl, J., Fischmeister, F.P.S., Lamm, C., Leodolter, U., & Bauer, H. (2003). Functional Neuroanatomy of Learned Helplessness. Poster presented at the 8th meeting of the Austrian Neuroscience Association, July 3-5, Vienna, Austria.

Fischmeister, F.P.S., Pripfl, J., Tschida, U., Leodolter, U., & Bauer, H. (2003). Stereoscopic versus monoscopic vision: a combined ICA and LORETA study. Poster presented at the 8th meeting of the Austrian Neuroscience Association, July 3-5, Vienna, Austria.

Richter, M., Vitouch, O., Pripfl, J., Lamm, C., Leodolter, U., & Bauer, H. (2003). Processing of verbal and tonal stimulus sequences. Poster presented at the 8th meeting of the Austrian Neuroscience Association, July 3-5, Vienna, Austria.

## **Media Coverage**

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Interview about robots in health- and medical care for "Das österreichische Gesundheitswesen ÖKZ", *ÖKZ EXTRA: IT & Prozesse*, 56. Jg. (2015), pp. 16-19:

<http://www.schaffler-verlag.com/pdf-download?pdf=27874> (accessed August 2015)

Media response to the journal article "Effects of transcranial direct current stimulation on risky decision making are mediated by "hot" and "cold" decisions, personality, and hemisphere" published in October 2013 in the "European Journal of Neuroscience" (all accessed November 2013):

<http://derstandard.at/1381369569106/Direkte-Gehirnstimulation-steuert-Risikoverhalten-von-Menschen>

<http://news.doccheck.com/de/31623/hirnstimulation-beeinflusst-risikoverhalten/>

<http://www.schattenblick.de/infopool/sozial/psychol/spfor181.html>

<http://umwelt-panorama.de/news.php?newsid=200505>

<http://www.uni-online.de/presse.php?id=557923>

[http://www.science.apa.at/rubrik/kultur\\_und\\_gesellschaft/Forscher\\_koennen\\_durch\\_Hirnstimulation\\_Risikoverhalten\\_steuern/SCI\\_20131023\\_SCI\\_39351351615251298](http://www.science.apa.at/rubrik/kultur_und_gesellschaft/Forscher_koennen_durch_Hirnstimulation_Risikoverhalten_steuern/SCI_20131023_SCI_39351351615251298)

[http://www.science.apa.at/rubrik/kultur\\_und\\_gesellschaft/No\\_risk\\_no\\_fun\\_Hirnstimulation\\_kann\\_risikofreudige\\_Menschen\\_einbremsen\\_und\\_risikoscheue\\_enthemmen/SCI\\_20131023\\_SCI39431352615248386](http://www.science.apa.at/rubrik/kultur_und_gesellschaft/No_risk_no_fun_Hirnstimulation_kann_risikofreudige_Menschen_einbremsen_und_risikoscheue_enthemmen/SCI_20131023_SCI39431352615248386)

[http://www.oe-journal.at/index\\_up.htm?http://www.oe-journal.at/Aktuelles/!2013/1013/W4/42310uniWIen.htm](http://www.oe-journal.at/index_up.htm?http://www.oe-journal.at/Aktuelles/!2013/1013/W4/42310uniWIen.htm)

<http://www.pressebox.de/inaktiv/universitaet-wien/No-risk-no-funOE-Hirnstimulation-kann-risikofreudige-Menschen-einbremsen-und-risikoscheue-enthemmen/boxid/634679>

[http://www.innovations-report.de/html/berichte/medizin\\_gesundheit/hirnstimulation\\_risikofreudige\\_menschen\\_einbremsen\\_221709.html](http://www.innovations-report.de/html/berichte/medizin_gesundheit/hirnstimulation_risikofreudige_menschen_einbremsen_221709.html)

[https://twitter.com/fe\\_magazin/statuses/392971050993991680](https://twitter.com/fe_magazin/statuses/392971050993991680)

Article about new methods to treat tobacco addiction (Die Blackbox Gehirn lichtet sich. Ein Beitrag von Andrea Krieger.) Ärzte-Kurier vom 13.06.2012, S.4-5.

TV-Interview and feature on Austrian television channel „okto.tv“ about research on new methods to treat tobacco addiction, April, 2012.

Radio interview for Oe1 (“Dimensionen - Die Welt der Wissenschaft” - related to project "Using TMS to treat smoking addiction"; Austrian National Radio), January, 2012.

Article about research on multimodal neuroimaging and smoking addiction (“uni:view”, online newsportal of the university of vienna), December, 2011:

<http://medienportal.univie.ac.at/uniview/forschung/detailansicht/artikel/neurowissenschaften-gusto-auf-eine-tschik>, (accessed: 12.11.2012).