

List of publications

Books

Antons, J.-N. (2015). *Neural Correlates of Quality Perception for Complex Speech Signals*. Cham, Switzerland: Springer. doi: 10.1007/978-3-319-15521-0.

Book chapter

Antons, J.-N., Arndt, S., Schleicher, R. & Möller, S. (2014). Brain Activity Correlates of Quality of Experience. In S. Möller & A. Raake (Eds.), *Quality of Experience* (pp.109–120). Cham, Switzerland: Springer.

Schleicher, R. & **Antons, J.-N.** (2014). Evoking Emotions and Evaluating Emotional Impact. In S. Möller & A. Raake (Eds.), *Quality of Experience* (pp.121–132). Cham, Switzerland: Springer International Publishing.

Journal articles (peer-reviewed)

Lech, S., O’Sullivan, J.L., Drewelies, J., Herrmann, W., Spang, R., **Voigt-Antons, J.-N.**, Nordheim, J., & Gellert, P. Dementia care and the role of guideline adherence in primary care: cross-sectional findings from the DemTab study. *BMC Geriatr*, 21, 717 (2021). doi: 10.1186/s12877-021-02650-8.

Pieper, K., Spang, R. P., Prietz, P., Möller, S., Paajanen, E., Vaalgamaa, M. & **Voigt-Antons, J.-N.** (2021). Working with environmental noise and noise-cancellation: A workload assessment with EEG and subjective measures. *Front. Neurosci.* 15:771533. doi: 10.3389/fnins.2021.771533.

Pinilla, A., Garcia, J. A., Raffe, W., **Voigt-Antons, J.-N.**, Spang, R. & Möller, S. (2021). Emotion visualization in Virtual Reality: An integrative review. *Front. Virtual Real.* 2:630731. doi:10.3389/frvir.2021.630731.

Shahal, A., Spang, R., Minge, M., Trahms, C. & **Voigt-Antons, J.-N.** (2021). User-Specific Touch Interfaces: A Viable Solution for an Aging Society?, *Behaviour & Information Technology*, doi:10.1080/0144929X.2021.1906322.

Porcu, S., Floris, A., **Voigt-Antons, J.-N.**, Atzori, L. & Möller, S. (2020). Estimation of the Quality of Experience During Video Streaming From Facial Expression and Gaze Direction. *IEEE Transactions on Network and Service Management*, vol. 17, no. 4, pp. 2702-2716. doi:10.1109/TNSM.2020.3018303.

Junge, S., Gellert, P., O’Sullivan, J.L., Möller, S., **Voigt-Antons, J.-N.**, Kuhlmeier, A. & Nordheim, J. (2020). Quality of life in people with dementia living in nursing homes: validation of an eight-item version of the QUALIDEM for intensive longitudinal assessment. *Qual Life Res* 29, 1721–1730, doi:10.1007/s11136-020-02418-4.

Cha, J.*, **Voigt-Antons, J.-N.***, Trahms, C., O’Sullivan, J., Gellert, P., Kuhlmeier, A., Möller, S. & Nordheim, J. (2019). Finding critical features for predicting quality of life in tablet-based serious games for dementia. *Quality and User Experience*, 1-13, doi:10.1007/s41233-019-0029-1. *Shared first authorship

Regal, G.*, **Voigt-Antons, J.-N.***, Schmidt, S., Schrammel, J., Kojić, T., Tscheligi, M. & Möller, S. (2019). Questionnaires Embedded in Virtual Environments: Reliability and positioning of rating scales in Virtual Environments. *Quality and User Experience*, 1-13, doi:10.1007/s41233-019-0029-1. *Shared first authorship

Lech, S., O’Sullivan, J. L., Gellert, P., **Voigt-Antons, J.-N.** & Nordheim J. (2019). Tablet-Based Outpatient Care for People With Dementia - The DemTab Study Protocol. *GeroPsych*, 32(3), 135-144, doi:10.1024/1662-9647/a000210.

Uhrig, S., Mittag, G., Möller, S. & **Voigt-Antons, J.-N.** (2019). P300 indicates context-dependent change in speech quality beyond phonological change. *Journal of Neural Engineering*, doi:10.1088/1741-2552/ab1673.

Ernsting, C., Stühmann, L.M., Dombrowski, S., **Voigt-Antons, J.-N.**, Kuhlmeier, A. & Gellert, P. (2019). Associations of Health App Use and Perceived Effectiveness in People with Cardiovascular Diseases and Diabetes – a Population-based Survey. *JMIR mHealth and uHealth*, 7(3):e12179, doi:10.2196/12179.

- Uhrig, S., Mittag, G., Möller, S. & **Voigt-Antons, J.-N.** (2019). Neural correlates of speech quality dimensions analyzed using electroencephalography (EEG). *Journal of Neural Engineering*, 16(3), doi:10.1088/1741-2552/aaf122.
- Núñez Castellar, E. P., **Antons, J.-N.**, Marinazzo, D. & Van Looy, J. (2019). Mapping attention during gameplay: assessment of behavioral and event-related potential (ERP) markers in an auditory Oddball task. *Psychophysiology*, e13347, doi:10.1111/psyp.13347.
- O'Sullivan, J., Gellert, P., Hesse, H., Jordan, L.-M., Möller, S., **Voigt-Antons, J.-N.** & Nordheim J. (2018). Exploring Attitudes of Healthcare Professionals towards ICT-based Interventions for Nursing Home Residents with Dementia: A Mixed-Methods Approach. *Contemporary Nurse*, 54(1), 13-25, doi:10.1080/10376178.2017.1421087.
- Uhrig, S., Arndt, S., Möller, S. & **Voigt-Antons, J.-N.** (2017). Perceptual references for independent dimensions of speech quality as measured by electroencephalography. *Quality and User Experience*, 2(1), 1-10, doi:10.1007/s41233-017-0011-8.
- Radun, J., Nuutinen, M., **Antons, J.-N.** & Arndt, S. (2017). Did you notice it? – How can we predict the subjective detection of video quality changes from eye movements? *Journal of Selected Topics in Signal Processing*, 11, 37-47, doi:10.1109/JSTSP.2016.2607696.
- Engelke, U., Darcy, D. P., Mulliken, G. H., Bosse, S., Martini, M.G. Arndt, S., **Antons, J.-N.**, Chan, K. Y., Ramzan, N. & Brunnström, K. (2017). Psychophysiology-based QoE Assessment: A Survey. *Journal of Selected Topics in Signal Processing*, 11, 6-21, doi:10.1109/JSTSP.2016.2609843.
- Arndt, S., **Antons, J.-N.**, Schleicher, R., & Möller, S. (2016). Using Electroencephalography to Analyze Sleepiness due to Low-quality Audiovisual Stimuli. *Signal Processing: Image Communication*, 42, 120-129, doi:10.1016/j.image.2016.01.011.
- Köster, F., Möller, S., **Antons, J.-N.**, Arndt, S., Guse, D. & Weiss, B. (2014). Methods for Assessing the Quality of Transmitted Speech and of Speech Communication Services. *Acoustics Australia*, 42, 179–184.
- Arndt, S., **Antons, J.-N.**, Schleicher, R., Möller, S. & Curio, G. (2014). Using Electroencephalography to Measure Perceived Video Quality. *Journal of Selected Topics in Signal Processing*, 8, 366–376, doi:10.1109/JSTSP.2014.2313026.
- Porbadnigk, A. K., Treder, M., Blankertz, B., **Antons, J.-N.**, Schleicher, R., Möller, S., Curio, G. & Müller, K.-R. (2013). Single-trial analysis of the neural correlates of speech quality perception. *J. Neural Eng.*, 10, 1–20, doi:10.1088/1741-2560/10/5/056003.
- Antons, J.-N.**, Schleicher, R., Arndt, S., Möller, S., Porbadnigk, A. K. & Curio, G. (2012). Analyzing Speech Quality Perception using Electro-Encephalography. *Journal of Selected Topics in Signal Processing*, 6, 721–731, doi:10.1109/JSTSP.2012.2191936.

Conference articles (peer-reviewed)

- Voigt-Antons, J.-N.**, Spang, R., Kojić, T., Meier, L., Vergari, M. & Möller, S. (2021, March). Don't Worry be Happy - Using virtual environments to induce emotional states measured by subjective scales and heart rate parameters. Paper presented at the *2020 IEEE Conference on Virtual Reality and 3D User Interfaces (VR)*, Lisbon, Portugal, doi:10.1109/VR50410.2021.00094.
- Vergari, M., Kojić, T., Vona, F., Garzotto, F., Möller, S. & **Voigt-Antons, J.-N.** (2021, March). Influence of Interactivity and Social Environments on User Experience and Social Acceptability in Virtual Reality. Paper presented at the *2020 IEEE Conference on Virtual Reality and 3D User Interfaces (VR)*, Lisbon, Portugal, doi:10.1109/VR50410.2021.00096. **IEEE VR 2021 - Conference Paper Honorable Mention**
- Kojić, T., Ashipala, S., Möller, S. & **Voigt-Antons, J.-N.** (2020, December). Exploring Visualisation for Financial Statements in Virtual Reality. Paper presented at the 2020 IEEE International Conference on Artificial Intelligence and Virtual Reality (AIVR), Utrecht, Netherlands. doi:10.1109/AIVR50618.2020.00018.
- Voigt-Antons, J.-N.**, Lehtonen, E., Palacios, A. & Ali, D. (2020, May). Comparing emotional states induced by 360 videos via head-mounted display and computer screen. Paper presented at the 12th International Conference on Quality of Multimedia Experience (QoMEX 2020), Athlone, Ireland. doi:10.1109/QoMEX48832.2020.9123125.
- Greinacher, R., Kojić, T., Meier, L., Parameshappa, R., Möller, S. & **Voigt-Antons, J.-N.** (2020, May). Impact of Tactile and Visual Feedback on Breathing Rhythm and User Experience in VR Exergaming.

Paper presented at the 12th International Conference on Quality of Multimedia Experience (QoMEX 2020), Athlone, Ireland. doi:10.1109/QoMEX48832.2020.9123141.

Krüger, C., Kojić, T., Meier, L., Möller, S. & **Voigt-Antons, J.-N.** (2020, May). Development and Validation of Pictographic Scales for Rapid Assessment of Affective States in Virtual Reality. Paper presented at the 12th International Conference on Quality of Multimedia Experience (QoMEX 2020), Athlone, Ireland. doi:10.1109/QoMEX48832.2020.9123100.

Kojić, T., Ali, D., Greinacher, R., Möller, S. & **Voigt-Antons, J.-N.** (2020, May). User Experience of Reading in Virtual Reality — Finding Values for Text Distance, Size and Contrast. Paper presented at the 12th International Conference on Quality of Multimedia Experience (QoMEX 2020), Athlone, Ireland doi:10.1109/QoMEX48832.2020.9123091.

Kojić, T., Nguyen, L. T. & **Voigt-Antons, J.-N.** (2019, December). Impact of Constant Visual Biofeedback on User Experience in Virtual Reality Exergames. Paper presented at the 1st International Workshop on Bridging the Gap between Semantics and Multimedia Processing (SeMP 2019) at the 21st IEEE International Symposium on Multimedia (ISM 2019), San Diego, USA. doi:10.1109/ISM46123.2019.00068.

Vashisth, G., Mikhailov, M., **Voigt-Antons, J.-N.** & Roller, R. (2019, August). Exploring Diachronic Changes of Biomedical Knowledge using Distributed Concept Representations. Paper presented at the 18th ACL Workshop on Biomedical Natural Language Processing (BioNLP 2019), Florence, Italy. doi:10.18653/v1/W19-5037.

Kojić, T., Schmidt, S., Möller, S. & **Voigt-Antons, J.-N.** (2019, June). Influence of Network Delay in Virtual Reality Multiplayer Exergames: Who is actually delayed?. Poster presented at the 11th International Conference on Quality of Multimedia Experience (QoMEX 2019), Berlin, Germany. doi:10.1109/QoMEX.2019.8743342.

Kojić, T., Sirotina, U., Möller, S. & **Voigt-Antons, J.-N.** (2019, June). Influence of UI Complexity and Positioning on User Experience During VR Exergames. Paper presented at the 11th International Conference on Quality of Multimedia Experience (QoMEX 2019), Berlin, Germany. doi:10.1109/QoMEX.2019.8743273.

Porcu, S., Uhrig, S., **Voigt-Antons, J.-N.**, Möller, S. & Atzori, L. (2019, June). Emotional Impact of Video Quality: Self-Assessment and Facial Expression Recognition. Paper presented at the 10th International Conference on Quality of Multimedia Experience (QoMEX 2019), Berlin, Germany. doi:10.1109/QoMEX.2019.8743186.

Arndt, S., Perkis, A. & **Voigt-Antons, J.-N.** (October, 2018). Using Virtual Reality and Head-Mounted Displays to Increase Performance in Rowing Workouts. Paper presented at the 1th International Workshop on Multimedia Content Analysis in Sports, Seoul, Korea, doi:10.1145/3265845.3265848.

Dimitrov, T., Kramps, O., Naroska, E., Bolten, T., Demmer, J., Ressel, C., Könen, S., Matthies, O., Habibi, A., Polzehl, T., **Voigt-Antons, J.-N.**, Matip, E.-M., Mertens, J. & Heutelbeck, D. (2018, June). „OurPuppet“ – Entwicklung einer Mensch-Technik-Interaktion für die Unterstützung informell Pflegender. Paper presented at the 1th cluster conference „Future of Nursing Care“, Oldenburg, Germany.

Kojić, T., **Voigt-Antons, J.-N.**, Schmidt, S., Tetzlaff, L., Kortowski, B., Sirotina, U. & Möller, S. (2018, May). Influence of Virtual Environments and Conversations on User Engagement During Multiplayer Exergames. Poster presented at the 10th International Conference on Quality of Multimedia Experience (QoMEX 2018), Sardinia, Italy. doi:10.1109/QoMEX.2018.8463370.

Voigt-Antons, J.-N., Hoßfeld, T., Egger-Lampf, S., Schatz, R. & Möller, S. (2018, May). User Experience of Web Browsing - The Relationship of Usability and Quality of Experience. Poster presented at the 10th International Conference on Quality of Multimedia Experience (QoMEX 2018), Sardinia, Italy. doi:10.1109/QoMEX.2018.8463383.

Uhrig, S., Möller & **Voigt-Antons, J.-N.** (2018, May). Dissociating Perceptual Quality Dimensions of Transmitted Speech Using Electroencephalography. Poster presented at the 10th International Conference on Quality of Multimedia Experience (QoMEX 2018), Sardinia, Italy. doi:10.1109/QoMEX.2018.8463371.

Schmidt, S., Ehrenbrink, P., Weiß, B., **Voigt-Antons, J.-N.**, Kojić, T., Möller, S. & Johnston, A. (2018, May). Impact of Virtual Environments on Motivation and Engagement during Exergames. Paper presented at the 10th International Conference on Quality of Multimedia Experience (QoMEX 2018), Sardinia, Italy. doi:10.1109/QoMEX.2018.8463389.

- Trahms, C., Möller, S. & **Voigt-Antons, J.-N.** (2018, May). Estimating Quality Ratings from Touch Interactions in Mobile Games. Paper presented at the 10th International Conference on Quality of Multimedia Experience (QoMEX 2018), Sardinia, Italy. doi:10.1109/QoMEX.2018.8463419.
- Uhrig, S., Michael, T., Möller, S., Keller, P. & **Voigt-Antons, J.-N.** (2018, May). Effects of delay on perceived quality, behavior and oscillatory brain activity in dyadic telephone conversations. Paper presented at the 10th International Conference on Quality of Multimedia Experience (QoMEX 2018), Sardinia, Italy. doi:10.1109/QoMEX.2018.8463293.
- Küster, L., Trahms, C. & **Voigt-Antons, J.-N.** (2018, May). Predicting personality traits from touchscreen based interactions. Paper presented at the 10th International Conference on Quality of Multimedia Experience (QoMEX 2018), Sardinia, Italy. doi:10.1109/QoMEX.2018.8463375.
- Schiller, C., Jettkowski, K., **Voigt-Antons, J.-N.** & Dohle, C. (2017, December). BeST-App: Mobile Applikation eines Spiegeltherapie-Eigentrainings nach Schlaganfall. Poster presented at the 25. Jahrestagung der Deutschen Gesellschaft für Neurorehabilitation e. V. (DGNR). Deutschen Gesellschaft für Neurorehabilitation (DGNR), Berlin, Germany.
- Yadav, M., Küster, L., Trahms, C. & **Voigt-Antons, J.-N.** (2017, October). Comparing standard assessment of cognitive and motor abilities with the performance measures of mobile-health apps. Poster presented at the 9th Scientific Meeting of the International Society for Research on Internet Interventions (ISRII 2017), Berlin, Germany.
- Trahms, C., Möller, S. & **Voigt-Antons, J.-N.** (2017, July). Towards prediction of user experience from touch interactions with mobile applications. Poster presented at the International Conference on Human-Computer Interaction (HCI), Vancouver, Canada. doi:10.1007/978-3-319-58753-0_72.
- De Moor, K. Arndt, S., Ammar, D., **Voigt-Antons, J.-N.**, Perkis, A. & Heegaard, P. (2017, May). Exploring diverse measures for evaluating QoE in the context of WebRTC. Poster presented at the 9th International Conference on Quality of Multimedia Experience (QoMEX 2017), Erfurt, Germany. doi:10.1109/QoMEX.2017.7965665.
- Arndt, S. & **Antons, J.-N.** (2016, August). Enhancing Video Streaming Using Real-Time Gaze Tracking. Paper presented at the 5th International Workshop on Perceptual Quality of Systems (PQS 2016), Berlin, Germany. doi:10.21437/PQS.2016-3.
- Kraus, L., **Antons, J.-N.**, Kaiser, F. & Möller, S. (2016, August). User Experience in Authentication Research: A Survey. Paper presented at the 5th International Workshop on Perceptual Quality of Systems (PQS 2016), Berlin, Germany. doi:10.21437/PQS.2016-12.
- Núñez Castellar, E. P., **Antons, J.-N.**, Marinazzo, D. & Van Looy, J. (2016, June). Measuring flow through attentional engagement during game play: validation of a novel technique. Paper presented at the International Communication Association Conference (ICA 2016), Fukuoka, Japan.
- Antons, J.-N.**, O'Sullivan, J., Arndt, S., Gellert, P., Nordheim, J., Möller, S. & Kuhlmeier, A. (2016, April). PflegeTab: Enhancing Quality of Life Using a Psychosocial Internet-based Intervention for Residential Dementia Care. Poster presented at the 8th Scientific Meeting of the International Society for Research on Internet Interventions (ISRII 2016), Seattle, USA.
- Arndt, S., Brunnström, K., Cheng, E., Engelke, U., Möller, S. & **Antons, J.-N.** (2016, February). Review on Using Physiology in Quality of Experience. Poster presented at the International Symposium on Human Vision and Electronic Imaging (HVEI 2016), San Francisco, USA. doi:10.2352/ISSN.2470-1173.2016.16.HVEI-125.
- Antons, J.-N.**, Arndt, S., De Moor, K. & Zander, S. (2015, May). Impact of Perceived Quality and other Influencing Factors on Emotional Video Experience. Paper presented at the 7th Int. Workshop on Quality of Multimedia Experience (QoMEX 2015), Costa Navarino, Messina, Greece. doi:10.1109/QoMEX.2015.7148124.
- Beyer, J., Varbelow, R., **Antons, J.-N.** & Zander, S. (2015, May). A method for feedback delay measurement using a low-cost Arduino microcontroller. Paper presented at the 7th Int. Workshop on Quality of Multimedia Experience (QoMEX 2015), Costa Navarino, Messina, Greece. doi:10.1109/QoMEX.2015.7148095.
- Greiner, S., **Antons, J.-N.** & Wechsung, I. (2015, May). Emotional Responses to Thermally Augmented Audiovisual Stimuli. Paper presented at the 7th Int. Workshop on Quality of Multimedia Experience (QoMEX 2015), Costa Navarino, Messina, Greece. doi:10.1109/QoMEX.2015.7148140.

Beyer, J., Varbelow, R., **Antons, J.-N.** & Möller, S. (2015, May). Using electroencephalography and subjective self-assessment to measure the influence of quality variations in cloud gaming. Paper presented at the 7th Int. Workshop on Quality of Multimedia Experience (QoMEX 2015), Costa Navarino, Messinia, Greece. doi:10.1109/QoMEX.2015.7148120.

Möller, S., **Antons, J.-N.**, Beyer, J., Egger, S., Núñez Castellar, E. P., Skorin-Kapov, L & Suznjevic, M. (2015, May). Towards a New ITU-T Recommendation for Subjective Methods Evaluating Gaming QoE. Paper presented at the 7th Int. Workshop on Quality of Multimedia Experience (QoMEX 2015), Costa Navarino, Messinia, Greece. doi:10.1109/QoMEX.2015.7148155.

Núñez Castellar, E. P., **Antons, J.-N.**, Vervaeke, J., de Ferrere, E. & Van Looy, J. (2015, May). Indirect assessment of subjective flow experience during game play: adaptation of an attentional behavioral paradigm. Paper presented at the International Communication Association Game Studies Preconference (ICA 2015), San Juan, Puerto Rico.

Hesse, B., Morkisch, N., **Antons, J.-N.** & Dohle, C. (2014, December). Evaluation von automatisierter Erfassung der Blickzuwendung während der Spiegeltherapie. Paper presented at the 5th Gemeinsamen Jahrestagung der Deutschen Gesellschaft für Neurorehabilitation (DGNR) und der Deutschen Gesellschaft für Neurotraumatologie und Klinische Neurorehabilitation (DGKN). Deutsche Gesellschaft für Neurorehabilitation (DGNR), Singen, Germany.

Arndt, S., **Antons, J.-N.** & Möller, S. (2014, September). Is Low Quality Media Affecting the Level of Fatigue?. Poster presented at the 6th Int. Workshop on Quality of Multimedia Experience (QoMEX 2014), Singapore, Singapore. doi:10.1109/QoMEX.2014.6982286.

Arndt, S., Radun, J., **Antons, J.-N.** & Möller, S. (2014, September). Using Eye-Tracking and Correlates of Brain Activity to Predict Quality Scores. Poster presented at the 6th Int. Workshop on Quality of Multimedia Experience (QoMEX 2014), Singapore, Singapore. doi:10.1109/QoMEX.2014.6982332.

Arndt, S., Wenzel, M., **Antons, J.-N.**, Köster, F., Möller, S. & Curio, Gabriel (2014, September). A Next Step Towards Measuring Perceived Quality of Speech Through Physiology. Paper presented at the 15th Annual Conference of International Speech Communication Association (INTERSPEECH 2014), Singapore, Singapore.

Rehman Laghari, K., Gupta, R., Arndt, S., **Antons, J.-N.**, Möller, S. & Falk, T. H. (2014, May). Characterization of Human Emotions and Preferences for Text-to-Speech Systems Using Multimodal Neuroimaging Methods. Paper presented at the IEEE Canadian Conference on Electrical and Computer Engineering (CCECE 2014), Toronto, ON, Canada. doi:10.1109/CCECE.2014.6901142.

Laghari, K., Gupta, R., **Antons, J.-N.**, Schleicher, R., Möller, S. & Falk, T. H. (2013, December). Objective Characterization of Human Behavioural Characteristics for QoE Assessment: A Pilot Study on the Use of Electroencephalography Features. Paper presented at the Globecom 2013 Workshop - Quality of Experience for Multimedia Communications (QoEMC 2013), Atlanta, GA, USA. doi:10.1109/GLOCOMW.2013.6825151.

Arndt, S., **Antons, J.-N.**, Gupta, R., Laghari, K., Schleicher, R., Möller, S. & Falk, T. H. (2013, November). The Effects of Text-to-Speech System Quality on Emotional States and Frontal Alpha Band Power. Paper presented at the 6th International IEEE EMBS Conference on Neural Engineering, San Diego, CA, USA. doi:10.1109/NER.2013.6695978.

Arndt, S., Bürglen, J., **Antons, J.-N.**, Schleicher, R. & Möller, S. (2013, October). Einfluss der Audiomodalität auf die Wahrnehmung und Qualitätsbeurteilung (audio-)visueller Stimuli. Paper presented at the 10th Berliner Werkstatt Mensch-Maschine-Systeme, Berlin, Germany.

Antons, J.-N., Arndt, S. & Schleicher, R. (2013, September). Effect of Questionnaire Order on Ratings of Perceived Quality and Experienced Affect. Paper presented at the 4th International Workshop on Perceptual Quality of Systems (PQS 2013), Vienna, Austria.

Arndt, S., Schleicher, R. & **Antons, J.-N.** (2013, September). Does Low Quality Audiovisual Content Increase Fatigue of Viewers?. Paper presented at the 4th International Workshop on Perceptual Quality of Systems (PQS 2013), Vienna, Austria.

Schleicher, R., Arndt, S. & **Antons, J.-N.** (2013, August). Changes in blinking behavior while watching videos with reduced quality. Paper presented at the 17th European Conference on Eye Movements (ECEM 2013), Lund, Sweden.

Arndt, S., **Antons, J.-N.**, Gupta, R., Laghari, K., Schleicher, R., Möller, S. & Falk, T. H. (2013, July). Subjective quality ratings and physiological correlates of synthesized speech. Poster presented at the

5th Int. Workshop on Quality of Multimedia Experience (QoMEX 2013), Klagenfurt, Austria. doi:10.1109/QoMEX.2013.6603229.

Antons, J.-N., Köster, F., Arndt, S., Möller, S. & Schleicher, R. (2013, July). Changes of vigilance caused by varying bit rate conditions. Poster presented at the 5th Int. Workshop on Quality of Multimedia Experience (QoMEX 2013), Klagenfurt, Austria. doi:10.1109/QoMEX.2013.6603228.

Laghari, K., Gupta, R., Arndt, S., **Antons, J.-N.**, Möller, S. & Falk, T. H. (2013, June). Auditory BCIs for Visually Impaired Users: Should Developers Worry About the Quality of Text-to-Speech Readers?. Paper presented at the 5th International BCI Meeting, Pacific Grove, CA, USA.

Laghari, K., Gupta, R., Arndt, S., **Antons, J.-N.**, Schleicher, R., Möller, S. & Falk, T. H. (2013, May). Neurophysiological Experimental Facility for Quality of Experience (QoE) Assessment. Paper presented at the 1st IFIP/IEEE international workshop on quality of experience (QoE) centric management (QCMAN 2013), Ghent, Belgium.

Antons, J.-N., Laghari, K., Arndt, S., Schleicher, R., Möller, S., O'Shaughnessy, D. & Falk, T. H. (2013, May). Cognitive, Affective, and Experience Correlates of Speech Quality Perception in Complex Listening Conditions. Poster presented at the IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2013), Vancouver, BC, Canada. doi:10.1109/ICASSP.2013.6638343.

Antons, J.-N., Arndt, S., Seebode, J., Schleicher, R. & Möller, S. (2013, April). Did You Notice? Neuronal Processing of Multimodal Mobile Phone Feedback. Poster presented at the annual conference on Computer-Human Interaction (CHI 2013), Paris, France. doi:10.1145/2468356.2468414.

Matthies, D. J.C., **Antons, J.-N.**, Heidmann, F., Wettach, R. & Schleicher, R. (2012, October). NeuroPad: Use Cases For A Mobile Physiological Interface. Poster presented at the 7th Nordic Conference on Human-Computer Interaction (NordiCHI 2012), Copenhagen, Denmark. doi:10.1145/2399016.2399152.

Möller, S., **Antons, J.-N.**, Arndt, S., Porbadnigk, A. K. & Schleicher, R. (2012, August). Zum Einsatz von Elektroenzephalographie bei der Messung der Wahrnehmung gestörter Sprache. Paper presented at the 23rd Konferenz Elektronische Sprachsignalverarbeitung (ESSV 2012), Cottbus, Germany.

Arndt, S., **Antons, J.-N.**, Schleicher, R., Möller, S. & Curio, G. (2012, July). Perception of Low-Quality Videos Analyzed by Means of Electroencephalography. Poster presented at the 4th Int. Workshop on Quality of Multimedia Experience (QoMEX 2012), Yarra Valley, Australia. doi:10.1109/QoMEX.2012.6263836.

Antons, J.-N., Schleicher, R., Arndt, S., Möller, S. & Curio, G. (2012, July). Too Tired for Calling? A Physiological Measure of Fatigue Caused by Bandwidth Limitations. Poster presented at the 4th Int. Workshop on Quality of Multimedia Experience (QoMEX 2012), Yarra Valley, Australia. doi:10.1109/QoMEX.2012.6263840.

Arndt, S., **Antons, J.-N.**, Schleicher, R., Möller, S., Scholler, S. & Curio, G. (2012, April). Correlating Physiological with Behavioural Data in Quality Research. Paper presented at the Tagung experimentell arbeitender Psychologen (TEAP 2012), Mannheim, Germany.

Arndt, S., **Antons, J.-N.**, Schleicher, R., Möller, S., Scholler, S. & Curio, G. (2011, December). A Physiological Approach to Determine Video Quality. Paper presented at the IEEE International Symposium on Multimedia (ISM 2011), Dana Point, CA, USA. doi:10.1109/ISM.2011.91.

Porbadnigk, A. K., **Antons, J.-N.**, Treder, M. S., Blankertz, B., Schleicher, R., Möller, S. & Curio, G. (2011, May). Using ERPs to Assess the Processing of Words Under Broadcast Bit Rate Limitations. Poster presented at the Meeting of the Society of Applied Neurosciences (SAN 2011), Thessaloniki, Greece.

Antons, J.-N., Porbadnigk, A. K., Schleicher, R., Blankertz, B., Möller, S. & Curio, G. (2010, November). Subjective Listening Tests and Neural Correlates of Speech Degradation in Case of Signal-correlated Noise. Paper presented at the 129th Audio Engineering Society Convention (129th AES Convention), San Francisco, CA, USA.

Antons, J.-N., Porbadnigk, A. K., Schleicher, R., Blankertz, B., Möller, S. & Curio, G. (2010, October). You think it's hi-fi – yet your brain might spot the difference: An EEG study on subconscious processing of noisy audio signals. Paper presented at the 10th Biannual Meeting of the German Society for Cognitive Science (KogWis 2010), Potsdam, Germany.

Porbadnigk, A. K., **Antons, J.-N.**, Blankertz, B., Treder, M. S., Schleicher, R., Möller, S. & Curio, G. (2010, September). Assessing the (Sub-)Conscious Processing of Noise based on ERPs. Poster presented at the Bernstein Conference on Computational Neuroscience (BCCN 2010), Berlin, Germany.

Antons, J.-N., Schleicher, R., Wolf, I., Porbadnigk, A. K., Blankertz, B., Möller, S. & Curio, G. (2010, September). Neural correlates of speech degradation – Subjective ratings and brain activation in case of signal-correlated noise. Paper presented at the 3rd International Workshop on Perceptual Quality of Systems (PQS 2010), Bautzen, Germany.

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Journal article (other)

Haeger, C., Mümken, S.A., O'Sullivan, J.L., Spang, R.P., **Voigt-Antons, J.-N.**, Stockburger, M., Dräger, D. & Gellert, P. Mobility enhancement among older adults 75+ in rural areas: Study protocol of the MOBILE randomized controlled trial. *BMC Geriatr* 22, 65 (2022). <https://doi.org/10.1186/s12877-021-02739-0>

Kim, E., Laird, L., Wilson, C., Bieg, T., Mildner, P., Möller, S., Schatz, R., Schwarz, S., Spang, R., **Voigt-Antons, J.-N.**, & Rochon, E. (2021). Implementation and Effects of an Information Technology-Based Intervention to Support Speech and Language Therapy Among Stroke Patients with Aphasia: Protocol for a Virtual Randomized Controlled Trial, *JMIR Research Protoc.* 2021;10(7):e30621, doi:10.2196/30621.

Perkis, A., Timmerer, C., Baraković, S., Husić, J. B., Bech, S., Bosse, S., ... , **Voigt-Antons, J.-N.**, ... (2020). QUALINET White Paper on Definitions of Immersive Media Experience (IMEx). arXiv preprint arXiv:2007.07032.

Conference article (other)

Spang, R. P., Machačík, P., Pieper, K., Vergari, M. & **Voigt-Antons, J.-N.** (2022, June). Reconstruction and Physiological Basis of Samsung's Galaxy Watch Stress Score. Poster presented at the International Conference on Human-Computer Interaction. Virtual event.

Vergari, M., Kojić, T., Hillmann, S., Möller, S. & **Voigt-Antons, J.-N.** (2022, June). Towards Improvement of UX using Gamification for Public Artistic and Historical Artefacts in AR. Paper presented at the International Conference on Human-Computer Interaction. Virtual event.

Kojić, T., Vergari, M., Möller, S. & **Voigt-Antons, J.-N.** (2022, June). Using Eye Tracking for Assessing User Experience of Text Readability in Virtual Reality. Paper presented at the International Conference on Human-Computer Interaction. Virtual event.

Mümken, S., Spang, R. P., **Voigt-Antons, J.-N.**, Ackermann, C., Dräger, D. & Gellert, P. (2021, October). Nutzung GPS-basierter Bewegungsdaten im Längsschnitt zur Evaluation am Beispiel der MOBILE-Intervention zur Förderung außerhäuslicher Mobilität alter Menschen. Paper presented at 20. Deutschen Kongress für Versorgungsforschung (20. DKVF DIGITAL). Weimar, Germany, online.

Kojić, T., Vergari, M., Thangaraj, R., Braune, M. & **Voigt-Antons, J.-N.** (2021, July). Influence of Visualisation Design of Data Streams on User Experience in Virtual Reality. Paper presented at the International Conference on Human-Computer Interaction. Washington DC, USA.

Voigt-Antons, J.-N., Devaikin, P. & Kojić, T. (2021, July). Automatic Recognition of Experienced Emotional State from Body Movement. Paper presented at the International Conference on Human-Computer Interaction. Washington DC, USA.

Burghart, M., O'Sullivan, J. L., Spang, R. & **Voigt-Antons, J.-N.** (2021, July). DemSelf, a Mobile App for Self-Administered Touch-Based Cognitive Screening: Participatory Design with Stakeholders. Paper presented at the International Conference on Human-Computer Interaction. Washington DC, USA.

Ganser, K., Kojić, T. & **Voigt-Antons, J.-N.** (2021, July). User Experience of Connected Services in Cars. Paper presented at the International Conference on Human-Computer Interaction. Washington DC, USA.

Lech, S., O'Sullivan, J. L., **Voigt-Antons, J.-N.**, Greinacher, R., Gellert, P., Kuhlmeier, A. & Nordheim, J. (2021, February). Ambulante Versorgung von Menschen mit Demenz in Berlin und Umgebung -

Querschnittsdaten aus der DemTab-Studie. Abstract presented at the 2. Charité-Versorgungsforschungskongress. Berlin, Germany.

O'Sullivan, J. L., Lech, S., **Voigt-Antons, J.-N.**, Greinacher, R., Gellert, P., Kuhlmeier, A. & Nordheim, J. (2020, November). DemTab – Tabletgestützte ambulante Versorgung von Menschen mit Demenz: Leitlinienbasierte Behandlungsplanung, individuelles Krankheitsmanagement und Vernetzung. Abstract presented at the Online-Symposium des Fachausschuss „Alter und Technik“ der Deutschen Gesellschaft für Gerontologie und Geriatrie (DGGG) "COVID-19 als <Brennglas>: Was wir aus der Krise zum Thema Altern und Digitalisierung lernen können“, virtual event.

Schatz, R., Kim, E. S., Bieber, A.-M., Bieg, T., Greinacher, R., Laird, L., Mildner, P., Neureiter, K., Rochon, E., Möller, S. & **Voigt-Antons, J.-N.** (2020, November). 12170: User-Centered Design of a Multimodal Training App for People with Aphasia. Proposal accepted at the Annual Convention of the American Speech-Language-Hearing Association, San Diego, CA (Convention canceled).

Schmitt, E. & **Voigt-Antons, J.-N.** (2020, July). Predicting tap locations on touch screens in the field using accelerometer and gyroscope sensor readings. Paper presented at the International Conference on Human-Computer Interaction (pp. 1-10). Springer, Cham.

Greinacher, R. & **Voigt-Antons, J.-N.** (2020, July). Accuracy Assessment of ARKit 2Based Gaze Estimation. Paper presented at the International Conference on Human-Computer Interaction (pp. 1–10). Springer, Cham.

O'Sullivan, J. L., Lech, S., Gellert, P., **Voigt-Antons, J.-N.**, Greinacher, R., Möller, S. Kuhlmeier, A. & Nordheim, J. (2020, February). DemTab – Tablet-basierte ambulante Versorgung von Menschen mit Demenz: eine cluster-randomisierte kontrollierte Studie. Paper presented at the IfG Jahrestagung "Wohnen und Gesundheit im Alter", Vechta, Germany.

O'Sullivan, J., Nordheim, J., Lech, S., **Voigt-Antons, J.-N.**, J., Gellert, P., & Kuhlmeier, A. (2019, September). Informations- und Kommunikationstechnologien in der Versorgung von Menschen mit Demenz. Vortrag auf der Fachtagung der Sektionen III und IV der Deutschen Gesellschaft für Gerontologie und Geriatrie, Berlin, DE.

Lech, S., Supplith J., O'Sullivan, J. L., **Voigt-Antons, J.-N.**, J., Gellert, P., Kuhlmeier, A. & Nordheim, J. (2019, Mai). Tablet-based Outpatient Care of People with Dementia: A Qualitative Feasibility Study. Poster presented at the International Association of Gerontology and Geriatrics European Region Congress, Gothenburg, SWE.

Lech, S., O'Sullivan-Solte, J., **Voigt-Antons, J.-N.**, Gellert, P. & Nordheim, J. (2018, October). Tablet-based outpatient care for people with dementia: Guideline-based treatment planning, personalized disease management and network-based care. Poster presented at the 14th International Congress of the European Geriatric Medicine Society (EuGMS), Berlin, Germany.

Lech, S., Nordheim, J., Gellert, P., O'Sullivan-Solte, J. & **Voigt-Antons, J.-N.** (2018, September). Tabletgestützte ambulante Versorgung von Menschen mit Demenz. Paper presented at the Kongress der Deutschen Gesellschaft für Gerontologie und Geriatrie, Köln, Germany.

Nordheim, J., O'Sullivan, J., Gellert, P., Arndt, S., Kuhlmeier, A. & **Antons, J.-N.** (2017, July). Tablet-based intervention for Nursing Home Residents with Dementia: A cluster RCT. Paper presented at the 21th World Congress of Gerontology and Geriatrics. International Association of Gerontological Societies (IAGG 2017), San Francisco, USA.

O'Sullivan, J., Nordheim, J., Jordan, L., Hesse, B., Möller, S. & **Antons, J.-N.** (2017, July). Information and Communications Technology in Dementia Care: Acceptance among Professional Caregivers. Paper presented at the 21th World Congress of Gerontology and Geriatrics. International Association of Gerontological Societies (IAGG 2017), San Francisco, USA.

O'Sullivan, J., **Antons, J.-N.**, Jordan, L.-M., Nordheim, J., Möller, S. & Kuhlmeier, A. (2016, November). Eine Tablet-gestützte psychosoziale Intervention zur Erhaltung der Lebensqualität von Pflegeheimbewohnern mit Demenz. Erste Ergebnisse des Forschungsprojekts PflegeTab als Poster. Poster presented at the Deutsche Gesellschaft für Psychiatrie und Psychotherapie, Psychosomatik und Nervenheilkunde Kongress 2016 (DGPPN 2016), Berlin, Germany.

O'Sullivan, J., Jordan, L.-M., **Antons, J.-N.**, Gellert, P. & Nordheim, J. (2016, September). Akzeptanz neuer Technologien im Arbeitsalltag von Pflegeheimmitarbeitern. Poster presented at the Gesundheit – bio.psycho.sozial 2.0 – Jahrestagung der Deutschen Gesellschaft für Medizinische Soziologie (DGMS) und der Deutschen Gesellschaft für Medizinische Psychologie (DGMP), Berlin, Germany.

Núñez Castellar, E. P., **Antons, J.-N.**, Marinazzo, D. & Van Looy, J. (2016, September). Functional connectivity of orienting and executive attentional networks during flow: Granger Causality analysis of EEG recordings. Paper presented at the 18th World Congress of the International Organization of Psychophysiology (IOP 2016), Habana, Cuba.

Möller, S. & **Antons, J.-N.** (2015, November). Motivating New Interaction Experiences Involving Implicit Interaction, Body Sensors, Adaptive, and Persuasive Interfaces. Paper presented at the Future and Emerging Trends in Language Technology (FETLT 2015), Seville, Spain.

Núñez Castellar, E. P., **Antons, J.-N.** & Van Looy, J. (2015, June). Investigating the Neural Correlates of the Subjective Flow Experience During Game Play: an EEG Study. Poster presented at the annual congress of the Organization for Human Brain Mapping (OHBM 2015), Honolulu, USA.

Arndt, S., Möller, S. & **Antons, J.-N.** (2015, March). Challenging ITU-T P.835: Searching for the optimal order of scales for assessing the quality of complex speech signals. Paper presented at the 41st annual congress of the Deutsche Gesellschaft für Akustik (DAGA 2015), Nürnberg, Germany.

Antons, J.-N., Laghari, K., Schleicher, R., Arndt, S., Falk, T. & Möller, S. (2013, March). Neural correlates of Affective States and Speech Perception: Towards Quality-of- Experience Measurement of Reverberant Speech. Poster presented at the 39st annual congress of the Deutsche Gesellschaft für Akustik (DAGA 2013), Merano, Italy.

Contributions to standardization

Kojić, T., **Voigt-Antons, J.-N.**, & Möller, S. (2021, October). ITU-T P.IntVR: "Subjective Test Method for Interactive Virtual Reality Applications". Contribution presented to the ITU-T SG12 as COM 12 – C 602 – E, Geneva, Switzerland.

Kojić, T., **Voigt-Antons, J.-N.**, & Möller, S. (2021, October). Update of Human IF for ITU-T Rec G.1035. Contribution presented to the ITU-T SG12 as COM 12 – C 605 – E, Geneva, Switzerland.

Kojić, T., **Voigt-Antons, J.-N.**, & Möller, S. (2021, May). Proposal for new Work Item P.IntVR: Subjective Test Method for Interactive Virtual Reality Applications. Contribution presented to the ITU-T SG12 as COM 12 – C 548 – E, Geneva, Switzerland.

Kojić, T., **Voigt-Antons, J.-N.**, & Möller, S. (2021, May). Contribution to ITU-T Rec G.1035: Contribution for Human Influencing Factors - Static and Dynamic Human Factors. Contribution presented to the ITU-T SG12 as COM 12 – C 562 – E, Geneva, Switzerland.

Voigt-Antons, J.-N. (2021, April). Contribution to DKE/AK STD_1000.8.5: VDE-Anwendungsregel "Digitale Qualifizierung im Gesundheitsbereich – Grundlagen". Contribution presented to the DKE Deutsche Kommission Elektrotechnik, Elektronik Informationstechnik in DIN und VDE, Frankfurt am Main, Germany.

Antons, J.-N., Arndt, S. & Möller, S. (2016, January). Structure proposal for the work item on the use of physiological measures as an additional test method for speech quality assessment (P.PHYSIO). Contribution presented to the ITU-T SG12 as COM 12 – C 307 – E, Geneva, Switzerland.

Möller, S., **Antons, J.-N.** & Arndt, S. (2015, May). Proposal to Work on a Recommendation on the Use of Physiological Measures as an Additional Test Method for Speech Quality Assessment. Contribution presented to the ITU-T SG12 as COM 12 - C 272 - E, Geneva, Switzerland.

Möller, S., **Antons, J.-N.**, Beyer, J., Egger, S., Núñez Castellar, E. P., Skorin-Kapov, L. & Suznjevic, M. (2015, May). Comments on Draft P.GAME. Contribution presented to the ITU-T SG12 as COM 12 - C 270 - E, Geneva, Switzerland.

Antons, J.-N., Arndt, S. & Möller, S. (2014, December). Effect of Presenting Multiple vs. Single Rating Scales After Stimulus Presentation on Subjective Quality Ratings. Contribution presented to the ITU-T SG12 as COM 12 – C 201 – E, Geneva, Switzerland.

Antons, J.-N. & Möller, S. (2013, December). Effects of Rating Scale Order on Subjective Quality Ratings of the Speech Signal Alone, the Background Noise Alone, and Overall Quality. Contribution presented to the ITU-T SG12 as COM 12 – C 113 – E, Geneva, Switzerland.

Antons, J.-N. & Möller, S. (2013, December). Using Physiological Data for Assessing Variations of the Cognitive State Evoked by Quality Profiles. Contribution presented to the ITU-T SG12 as COM 12 – C 112 – E, Geneva, Switzerland.

Antons, J.-N. & Möller, S. (2013, March). Investigating the Subjective Judgment Process Using Physiological Data. Contribution presented to the ITU-T SG12 as COM 12 – C 39 – E, Geneva, Switzerland.