















- Symposium on Robot and Human Interactive Communication (RO-MAN), New York, NY, 26-31 Aug. 2016, 2016.
- [66] P. Kaniarasu and A. M. Steinfeld, "Effects of blame on trust in human robot interaction," presented at the The 23rd IEEE International Symposium on Robot and Human Interactive Communication, Edinburgh, UK, 2014.
- [67] B. J. Fogg, "A behavior model for persuasive design," presented at the 4th International Conference on Persuasive Technology, Claremont, CA, 2009.
- [68] B. J. Fogg, *Persuasive Technology: Using Computers to Change What We Think and Do*. San Francisco, CA: Morgan Kaufmann, 2002.
- [69] J. Borenstein and R. C. Arkin, "Nudging for good: robots and the ethical appropriateness of nurturing empathy and charitable behavior," *AI & SOCIETY*, vol. 32, no. 4, pp. 499-507, 2017.
- [70] R. H. Thaler, C. R. Sunstein, and J. P. Balz, "Choice Architecture," in *The Behavioral Foundations of Public Policy*, E. Shafir, Ed. Princeton, NJ: Princeton University Press, 2012.
- [71] V. Chidambaram, Y.-H. Chiang, and B. Mutlu, "Designing persuasive robots: how robots might persuade people using vocal and nonverbal cues," presented at the 7th ACM/IEEE international conference on Human-Robot Interaction, Boston, MA, 2012.
- [72] S. Hammer, B. Lugrin, S. Bogomolov, K. Janowski, and E. André, "Investigating Politeness Strategies and Their Persuasiveness for a Robotic Elderly Assistant," presented at the PERSUASIVE 2016: International Conference on Persuasive Technology, Salzburg, Austria, 2016.
- [73] S. van der Woerd and P. Haselager, "Lack of Effort or Lack of Ability? Robot Failures and Human Perception of Agency and Responsibility," presented at the BNAIC 2016: Benelux Conference on Artificial Intelligence, Amsterdam, The Netherlands, 2017.
- [74] A. Hamacher, N. Bianchi-Berthouze, A. G. Pipe, and K. Eder, "Believing in BERT: Using expressive communication to enhance trust and counteract operational error in physical Human-robot interaction," presented at the IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN), New York, NY, 2016.
- [75] H. Y. Kim, B. Kim, S. Jun, and J. Kim, "An Imperfectly Perfect Robot: Discovering Interaction Design Strategy for Learning Companion," presented at the ACM/IEEE International Conference on Human-Robot Interaction, Vienna, Austria, 2017.
- [76] H.-M. Gross *et al.*, "TOOMAS: Interactive Shopping Guide robots in everyday use - final implementation and experiences from long-term field trials," presented at the IEEE/RSJ International Conference on Intelligent Robots and Systems, St. Louis, MO, 10-15 Oct. 2009, 2009.
- [77] M. Svenstrup, S. Tranberg, H. J. Andersen, and T. Bak, "Pose estimation and adaptive robot behaviour for human-robot interaction," presented at the IEEE International Conference on Robotics and Automation, Kobe, Japan, 12-17 May 2009, 2009.
- [78] K. Dautenhahn *et al.*, "How may I serve you?: a robot companion approaching a seated person in a helping context," presented at the ACM SIGCHI/SIGART conference on Human-robot interaction, Salt Lake City, UT, 2006.
- [79] Y. Kato, T. Kanda, and H. Ishiguro, "May I help you? Design of Human-like Polite Approaching Behavior," presented at the Annual ACM/IEEE International Conference on Human-Robot Interaction, Portland, OR, 2015.
- [80] C. Shi, M. Shimada, T. Kanda, H. Ishiguro, and N. Hagita, "Spatial formation model for initiating conversation," presented at the Robotics: Science and Systems VII, Los Angeles, CA, 2011.
- [81] D. Carton, W. Olszowy, D. Wollherr, and M. Buss, "Socio-Contextual Constraints for Human Approach with a Mobile Robot," *International Journal of Social Robotics*, journal article vol. 9, no. 2, pp. 309-327, April 01 2017.
- [82] E. T. Hall, "A System for the Notation of Proxemic Behavior1," *American Anthropologist*, vol. 65, no. 5, pp. 1003-1026, 1963.
- [83] R. Murphy and D. Schreckenghost, "Survey of metrics for human-robot interaction," presented at the 8th ACM/IEEE international conference on Human-robot interaction, Tokyo, Japan, 2013.
- [84] H.-M. Gross *et al.*, "ROREAS: robot coach for walking and orientation training in clinical post-stroke rehabilitation—prototype implementation and evaluation in field trials," *Autonomous Robots*, journal article vol. 41, no. 3, pp. 679-698, March 01 2017.
- [85] P. A. Hancock, A. A. Pepe, and L. L. Murphy, "Hedonomics: The Power of Positive and Pleasurable Ergonomics," *Ergonomics in Design*, vol. 13, no. 1, pp. 8-14, 2005.
- [86] C. Bartneck, D. Kulić, E. Croft, and S. Zoghbi, "Measurement Instruments for the Anthropomorphism, Animacy, Likeability, Perceived Intelligence, and Perceived Safety of Robots," *International Journal of Social Robotics*, vol. 1, no. 1, pp. 71-81, 2009.
- [87] J. Nielsen, "Usability inspection methods," presented at the Conference on Human Factors in Computing Systems (CHI), Boston, MA, 1994.
- [88] ISO 12100, *Safety of machinery - General principles for design - Risk assessment and risk reduction*. Geneva, Switzerland: International Organization for Standardization, 2010.
- [89] S. Oberer-Treitz, T. Dietz, and A. Verl, "Safety in industrial applications: From fixed fences to direct interaction," presented at the IEEE International Symposium on Robotics (ISR), Seoul, Korea, 2013.
- [90] A. Weiss, R. Bernhaupt, and M. Tscheligi, "The USUS evaluation framework for user-centered HRI," in *New Frontiers in Human-Robot Interaction*, K. Dautenhahn and J. Saunders, Eds. Amsterdam, The Netherlands: John Benjamins Publishin Company, 2011, pp. 89-110.
- [91] A. Steinfeld *et al.*, "Common metrics for human-robot interaction," presented at the 1st ACM SIGCHI/SIGART conference on Human-robot interaction, Salt Lake City, UT, 2006.
- [92] D. R. Olsen and M. A. Goodrich, "Metrics for evaluating human-robot interactions," in *PERMS*, Gaithersburg, MD, 2003, vol. 2003.
- [93] I. F. o. R. (IFR), "Executive Summary World Robotics 2017 Service Robots," in "World Robotics 2017 Edition," 2017.
- [94] R. Stricker *et al.*, "Interactive mobile robots guiding visitors in a university building," in *RO-MAN, 2012 IEEE*, 2012, pp. 695-700: IEEE.
- [95] G. Schweitzer, N. Tschichold-Gürman, and S. Vestli, "Operating Experiences with Service-Robots—Examples from Mail Distribution," in *Proc. of ACRA Australian Conf. on Robotics and Automation*, 1999, pp. 216-221.
- [96] S. Rosenthal and M. M. Veloso, "Mobile Robot Planning to Seek Help with Spatially-Situated Tasks," in *AAAI*, 2012, vol. 4, no. 5.3, p. 1.
- [97] Å. Fasth, T. Lundholm, L. Mårtensson, K. Dencker, and J. Stahre, "Designing proactive assembly systems—Criteria and interaction between Automation, Information, and Competence," in *CIRP conference on manufacturing systems, Univ of Grenoble, France*, 2009.
- [98] S. Angerer, C. Strassmair, M. Staehr, M. Roettenbacher, and N. M. Robertson, "Give me a hand—The potential of mobile assistive robots in automotive logistics and assembly applications," in *Technologies for Practical Robot Applications (TePRA), 2012 IEEE International Conference on*, 2012, pp. 111-116: IEEE.
- [99] M. Shneier and R. Bostelman, "Literature review of mobile robots for manufacturing," *National Institute of Standards and Technology, US Department of Commerce*, 2015.
- [100] S. Scheggi, M. Aggravi, and D. Prattichizzo, "Cooperative Navigation for Mixed Human–Robot Teams Using Haptic Feedback," *IEEE Transactions on Human-Machine Systems*, vol. 47, no. 4, pp. 462-473, 2017.