

Topics: Human-Robot Interaction

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1 Human-Robot Interaction Taxonomy

Yanco, H.A.; Drury, J., "Classifying human-robot interaction: an updated taxonomy," *Systems, Man and Cybernetics, 2004 IEEE International Conference on*, vol.3, no., pp.2841,2846 vol.3, 10-13 Oct. 2004, doi: 10.1109/ICSMC.2004.1400763

URL: <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=1400763&isnumber=30423>

Aaron Steinfeld, Terrence Fong, David Kaber, Michael Lewis, Jean Scholtz, Alan Schultz, and Michael Goodrich. 2006. Common metrics for human-robot interaction. In *Proceedings of the 1st ACM SIGCHI/SIGART conference on Human-robot interaction* (HRI '06). ACM, New York, NY, USA, 33-40. DOI=10.1145/1121241.1121249 <http://doi.acm.org/10.1145/1121241.1121249>

Breazeal, C., "Social interactions in HRI: the robot view," *Systems, Man, and Cybernetics, Part C: Applications and Reviews, IEEE Transactions on*, vol.34, no.2, pp.181,186, May 2004
doi: 10.1109/TSMCC.2004.826268

URL: <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=1291665&isnumber=28769>

Goodrich, M. A., & Olsen, D. R. (2003, October). Seven principles of efficient human robot interaction. In *Systems, Man and Cybernetics, 2003. IEEE International Conference on* (Vol. 4, pp. 3942-3948). IEEE.

2 Interaction with Rescue Robots

Murphy, R.R., "Human-robot interaction in rescue robotics," *Systems, Man, and Cybernetics, Part C: Applications and Reviews, IEEE Transactions on*, vol.34, no.2, pp.138,153, May 2004 doi: 10.1109/TSMCC.2004.826267

URL: <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=1291662&isnumber=28769>

Scholtz, J.; Young, J.; Drury, J.L.; Yanco, H.A., "Evaluation of human-robot interaction awareness in search and rescue," *Robotics and Automation, 2004. Proceedings. ICRA '04. 2004 IEEE International Conference on*, vol.3, no., pp.2327,2332 Vol.3, 26 April-1 May 2004
doi: 10.1109/ROBOT.2004.1307409

URL: <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=1307409&isnumber=29022>

Larochelle, B.; Kruijff, G.M.; Smets, N.; Mioch, T.; Groenewegen, P., "Establishing human situation awareness using a multi-modal operator control unit in an urban search & rescue human-robot team," *RO-MAN, 2011 IEEE*, vol., no., pp.229,234, July 31 2011-Aug. 3 2011
doi: 10.1109/ROMAN.2011.6005237

URL: <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6005237&isnumber=6005194>

Nourbakhsh, I.; Sycara, K.; Koes, M.; Yong, M.; Lewis, M.; Burion, S., "Human-robot teaming for search and rescue," *Pervasive Computing, IEEE*, vol.4, no.1, pp.72,79, Jan.-March 2005
doi: 10.1109/MPRV.2005.13

URL: <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=1401846&isnumber=30432>

3 Care Robots, Robotics in rehabilitation and assistance

Krebs, H. I., Palazzolo, J. J., Dipietro, L., Ferraro, M., Krol, J., Rannekleiv, K., ... & Hogan, N. (2003).

Rehabilitation robotics: Performance-based progressive robot-assisted therapy. *Autonomous Robots*, 15(1), 7-20. 10.1023/A:1024494031121

Hancock, P. A., Billings, D. R., Schaefer, K. E., Chen, J. Y., De Visser, E. J., & Parasuraman, R. (2011). A meta-analysis of factors affecting trust in human-robot interaction. *Human Factors: The Journal of the Human Factors and Ergonomics Society*, 53(5), 517-527.

Mead, R.; Wade, Eric; Johnson, P.; St.Clair, A.; Shuya Chen; Matarić, M.J., "An architecture for rehabilitation task practice in socially assistive human-robot interaction," RO-MAN, 2010 IEEE , vol., no., pp.404,409, 13-15 Sept. 2010 doi: 10.1109/ROMAN.2010.5598666
URL: <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5598666&isnumber=5598604>

Bemelmans, R., Gelderblom, G. J., Jonker, P., & De Witte, L. (2012). Socially assistive robots in elderly care: A systematic review into effects and effectiveness. *Journal of the American Medical Directors Association*, 13(2), 114-120.

Assistive Robotics and an Ecology of Elders Living Independently in Their Homes. Jodi Forlizzi, Carl DiSalvo, Francine Gemperle, *Human–Computer Interaction* Vol. 19, Iss. 1-2, 2004

4 Natural language Interaction and HRI, Speaking with Robots

Henkel, Z.; Srinivasan, V.; Murphy, R.R.; Groom, V.; Nass, C., "A toolkit for exploring the role of voice in human-robot interaction," *Human-Robot Interaction (HRI), 2011 6th ACM/IEEE International Conference on* , vol., no., pp.255,256, 8-11 March 2011

URL: <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6281324&isnumber=6281241>

Heinrich, S., Folleher, P., Springstübe, P., Strahl, E., Twiefel, J., Weber, C., & Wermter, S. (2014). Object Learning with Natural Language in a Distributed Intelligent System: A Case Study of Human-Robot Interaction. In *Foundations and Practical Applications of Cognitive Systems and Information Processing* (pp. 811-819). Springer Berlin Heidelberg.

Matuszek, C., Herbst, E., Zettlemoyer, L., & Fox, D. (2013, January). Learning to parse natural language commands to a robot control system. In *Experimental Robotics* (pp. 403-415). Springer International Publishing.

Kollar, T.; Tellex, S.; Roy, D.; Roy, N., "Toward understanding natural language directions," *Human-Robot Interaction (HRI), 2010 5th ACM/IEEE International Conference on* , vol., no., pp.259,266, 2-5 March 2010

doi: 10.1109/HRI.2010.5453186

URL: <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5453186&isnumber=5453161>

5 Social Robots, Emotional Expression of Robots

Breazeal, Cynthia, Atsuo Takanishi, and Tetsunori Kobayashi. "Social robots that interact with people." *Springer Handbook of Robotics* (2008): 1349-1369.

Miwa, Hiroyasu, Kazuko Itoh, Munemichi Matsumoto, Massimiliano Zecca, Hideaki Takanobu, S. Rocella, Maria Chiara Carrozza, Paolo Dario, and Atsuo Takanishi. "Effective emotional expressions with expression humanoid robot we-4rii: integration of humanoid robot hand rch-1." In *Intelligent Robots and Systems, 2004.(IROS 2004). Proceedings. 2004 IEEE/RSJ International Conference on*, vol. 3, pp. 2203-2208. IEEE, 2004.

Lewis, M.; Canamero, L., "Are Discrete Emotions Useful in Human-Robot Interaction? Feedback from Motion Capture Analysis," *Affective Computing and Intelligent Interaction (ACII)*, 2013 Humaine Association Conference on , vol., no., pp.97,102, 2-5 Sept. 2013. doi: 10.1109/ACII.2013.23 URL: <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6681414&isnumber=6681389>

6 Robot in Social Environments, Trajectories and Interaction

Satake, Satoru, Takayuki Kanda, Dylan F. Glas, Michita Imai, Hiroshi Ishiguro, and Norihiro Hagita. "How to approach humans?-strategies for social robots to initiate interaction." In *Human-Robot Interaction (HRI), 2009 4th ACM/IEEE International Conference on*, pp. 109-116. IEEE, 2009.

Kanda, Takayuki, Dylan F. Glas, Masahiro Shiomi, Hiroshi Ishiguro, and Norihiro Hagita. "Who will be the customer?: a social robot that anticipates people's behavior from their trajectories." In *Proceedings of the 10th international conference on Ubiquitous computing*, pp. 380-389. ACM, 2008.

Kanda, Takayuki, Dylan F. Glas, Masahiro Shiomi, and Norihiro Hagita. "Abstracting people's trajectories for social robots to proactively approach customers." *Robotics, IEEE Transactions on* 25, no. 6 (2009): 1382-1396.

7 The Ethical and Legal Issues of HRI

Lin, P., Abney, K., & Bekey, G. (2011). Robot ethics: Mapping the issues for a mechanized world. *Artificial Intelligence*, 175(5), 942-949.

Sharkey, A., & Sharkey, N. (2012). Granny and the robots: ethical issues in robot care for the elderly. *Ethics and Information Technology*, 14(1), 27-40.

Roboethics: Social and Ethical Implications of Robotics, Gianmarco Veruggio Dr., Fiorella Opero Dr., Springer Handbook of Robotics, 2008, pp 1499-1524

Patrick Lin, Keith Abney, George Bekey, Robot ethics: Mapping the issues for a mechanized world, *Artificial Intelligence*, Volume 175, Issues 5–6, April 2011, Pages 942-949, ISSN 0004-3702, <http://dx.doi.org/10.1016/j.artint.2010.11.026>.

Sharkey, Noel; Sharkey, Amanda: The crying shame of robot nannies: An ethical appraisal. *Interaction Studies*, Volume 11, Number 2, 2010 , pp. 161-190(30). <http://dx.doi.org/10.1075/is.11.2.01sha>

8 Gestural Interaction with Robots

Waldherr, S., Romero, R., & Thrun, S. (2000). A gesture based interface for human-robot interaction. *Autonomous Robots*, 9(2), 151-173.

Kai Nickel, Rainer Stiefelhagen, Visual recognition of pointing gestures for human-robot interaction, *Image and Vision Computing*, Volume 25, Issue 12, 3 December 2007, Pages 1875-1884,

ISSN 0262-8856, <http://dx.doi.org/10.1016/j.imavis.2005.12.020>.
(<http://www.sciencedirect.com/science/article/pii/S0262885606002897>)

Stiefelhagen, R.; Fugen, C.; Gieselmann, R.; Holzapfel, H.; Nickel, K.; Waibel, A., "Natural human-robot interaction using speech, head pose and gestures," *Intelligent Robots and Systems*, 2004. (IROS 2004). Proceedings. 2004 IEEE/RSJ International Conference on , vol.3, no., pp.2422,2427 vol.3, 28 Sept.-2 Oct. 2004, doi: 10.1109/IROS.2004.1389771,
URL: <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=1389771&isnumber=30277>

9 Interacting with (semi-)autonomous vehicles

Göhring, D., Latotzky, D., Wang, M., & Rojas, R. (2013). Semi-autonomous car control using brain computer interfaces. In *Intelligent Autonomous Systems 12* (pp. 393-408). Springer Berlin Heidelberg.

Shaikh, S. A. & Krishnan, P. (2012). A Framework for Analysing Driver Interactions with Semi-Autonomous Vehicles. In P. C. Ölveczky & C. Artho (eds.), *FTSCS* (p./pp. 85-99),

<http://www.engineering.com/DesignerEdge/DesignerEdgeArticles/ArticleID/6880/Amazons-Robotic-Order-Fulfillment.aspx>

<http://www.youtube.com/watch?v=lWsMdN7HMuA#t=53>

Correa, A.; Walter, M.R.; Fletcher, L.; Glass, J.; Teller, S.; Davis, R., "Multimodal interaction with an autonomous forklift," *Human-Robot Interaction (HRI), 2010 5th ACM/IEEE International Conference on* , vol., no., pp.243,250, 2-5 March 2010
doi: 10.1109/HRI.2010.5453188

URL: <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5453188&isnumber=5453161>

<http://spectrum.ieee.org/robotics/robotics-software/three-engineers-hundreds-of-robots-one-warehouse>

Tove Helldin, Göran Falkman, Maria Riveiro, and Staffan Davidsson. 2013. Presenting system uncertainty in automotive UIs for supporting trust calibration in autonomous driving. In *Proceedings of the 5th International Conference on Automotive User Interfaces and Interactive Vehicular Applications* (AutomotiveUI '13). ACM, New York, NY, USA, 210-217.
DOI=10.1145/2516540.2516554 <http://doi.acm.org/10.1145/2516540.2516554>

Zoë Terken, Roy Haex, Luuk Beursgens, Elvira Arslanova, Maria Vrachni, Jacques Terken, and Dalila Szostak. 2013. Unwinding after work: an in-car mood induction system for semi-autonomous driving. In *Proceedings of the 5th International Conference on Automotive User Interfaces and Interactive Vehicular Applications* (AutomotiveUI '13). ACM, New York, NY, USA, 246-249.
DOI=10.1145/2516540.2516571 <http://doi.acm.org/10.1145/2516540.2516571>

10 Robot Teachers

Nicolescu, M.N.; Mataric, M.J., "Experience-based representation construction: learning from human and robot teachers," *Intelligent Robots and Systems*, 2001. Proceedings. 2001 IEEE/RSJ

International Conference on , vol.2, no., pp.740,745 vol.2, 2001, doi: 10.1109/IROS.2001.976257, URL: <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=976257&isnumber=21045>

Fumihide Tanaka, Toshimitsu Takahashi, Shizuko Matsuzoe, Nao Tazawa, and Masahiko Morita. 2014. Telepresence robot helps children in communicating with teachers who speak a different language. In *Proceedings of the 2014 ACM/IEEE international conference on Human-robot interaction (HRI '14)*. ACM, New York, NY, USA, 399-406. DOI=10.1145/2559636.2559654
<http://doi.acm.org/10.1145/2559636.2559654>

Daniel Leyzberg, Samuel Spaulding, and Brian Scassellati. 2014. Personalizing robot tutors to individuals' learning differences. In Proceedings of the 2014 ACM/IEEE international conference on Human-robot interaction (HRI '14). ACM, New York, NY, USA, 423-430.
DOI=10.1145/2559636.2559671 <http://doi.acm.org/10.1145/2559636.2559671>

Yun, S., Shin, J., Kim, D., Kim, C. G., Kim, M., & Choi, M. T. (2011). Engkey: tele-education robot. In Social Robotics (pp. 142-152). Springer Berlin Heidelberg.

Kanda, T., Sato, R., Saiwaki, N., & Ishiguro, H. (2007). A two-month field trial in an elementary school for long-term human–robot interaction. *Robotics, IEEE Transactions on*, 23(5), 962-971.

11 Shared Control

Nakama, T., Muñoz, E., LeBlanc, K., & Ruspini, E. (2014, January). Facilitating Human-Robot Interaction: A Formal Logic for Task Description. In *ROBOT2013: First Iberian Robotics Conference* (pp. 331-344). Springer International Publishing.

Whose Job Is It Anyway? A Study of Human-Robot Interaction in a Collaborative Task, Pamela J. Hinds, Teresa L. Roberts, Hank Jones, *Human–Computer Interaction*, Vol. 19, Iss. 1-2, 2004

Crandall, J. W., & Goodrich, M. A. (2002). Characterizing efficiency of human robot interaction: A case study of shared-control teleoperation. In *Intelligent Robots and Systems, 2002. IEEE/RSJ International Conference on* (Vol. 2, pp. 1290-1295). IEEE.

Fong, T., Thorpe, C., & Baur, C. (2003). Collaboration, dialogue, human-robot interaction. In *Robotics Research* (pp. 255-266). Springer Berlin Heidelberg.

12 Augmented Human – Artificial Limbs Control

Gregg, R.D.; Sensinger, J.W., "Towards Biomimetic Virtual Constraint Control of a Powered Prosthetic Leg," *Control Systems Technology, IEEE Transactions on* , vol.22, no.1, pp.246,254, Jan. 2014, doi: 10.1109/TCST.2012.2236840, URL:
<http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6421036&isnumber=6687265>

<http://www.wired.co.uk/news/archive/2010-05/10/the-i-limb-pulse-bionic-arm-provides-cyborg-strength>

Dellon, B.; Matsuoka, Y., "Prosthetics, exoskeletons, and rehabilitation [Grand Challenges of Robotics]," *Robotics & Automation Magazine, IEEE* , vol.14, no.1, pp.30,34, March 2007, doi:

10.1109/MRA.2007.339622,
URL: <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=4141030&isnumber=4141014>

Perry, J.C.; Rosen, J.; Burns, S., "Upper-Limb Powered Exoskeleton Design," *Mechatronics, IEEE/ASME Transactions on*, vol.12, no.4, pp.408,417, Aug. 2007, doi: 10.1109/TMECH.2007.901934,
URL: <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=4291584&isnumber=4291568>

Kazerooni, H., "Exoskeletons for human power augmentation," *Intelligent Robots and Systems, 2005. (IROS 2005). 2005 IEEE/RSJ International Conference on*, vol., no., pp.3459,3464, 2-6 Aug. 2005, doi: 10.1109/IROS.2005.1545451,
URL: <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=1545451&isnumber=32977>

13 Brain-Computer Interfaces

Y. Chae, J. Jeong, and S. Jo. Toward Brain-Actuated Humanoid Robots: Asynchronous Direct Control Using an EEG-Based BCI. *IEEE Transactions on Robotics*, 28(5):1131{1144, Oct. 2012.

B. Z. Allison, C. Brunner, V. Kaiser, G. R. Müller-Putz, C. Neuper, and G. Pfurtscheller. Toward a hybrid brain-computer interface based on imagined movement and visual attention. *Journal of neural engineering*, 7(2):26007, Apr. 2010.

Escolano, C., Antelis, J. M., & Minguez, J. (2012). A telepresence mobile robot controlled with a noninvasive brain-computer interface. *Systems, Man, and Cybernetics, Part B: Cybernetics, IEEE Transactions on*, 42(3), 793-804.

Perrin, X., Chavarriaga, R., Colas, F., Siegwart, R., & Millán, J. D. R. (2010). Brain-coupled interaction for semi-autonomous navigation of an assistive robot. *Robotics and Autonomous Systems*, 58(12), 1246-1255.

14 Uncanny Valley

Mori, M. (1970). The uncanny valley. *Energy*, 7(4), 33-35.

Walters, M. L., Syrdal, D. S., Dautenhahn, K., Te Boekhorst, R., & Koay, K. L. (2008). Avoiding the uncanny valley: robot appearance, personality and consistency of behavior in an attention-seeking home scenario for a robot companion. *Autonomous Robots*, 24(2), 159-178.

MacDorman, K. F. (2006, July). Subjective ratings of robot video clips for human likeness, familiarity, and eeriness: An exploration of the uncanny valley. In *ICCS/CogSci-2006 long symposium: Toward social mechanisms of android science* (pp. 26-29).

Hanson, D. (2006, July). Exploring the aesthetic range for humanoid robots. In *Proceedings of the ICCS/CogSci-2006 long symposium: Toward social mechanisms of android science* (pp. 39-42).

15 Mensch-Roboter-Interaktion in der Fiktion

http://de.wikipedia.org/wiki/Kulturgeschichte_der_Roboter

Behnke, S. (2008). Humanoid Robots-From Fiction to Reality?. *KI*, 22(4), 5-9., http://wwwais.uni-bonn.de/papers/KI08_Behnke.pdf

<http://www.plugandpray-film.de/inhalt.html>

16 Attention Models

Sebastian Lang, Marcus Kleinehagenbrock, Sascha Hohenner, Jannik Fritsch, Gernot A. Fink, and Gerhard Sagerer. 2003. Providing the basis for human-robot-interaction: a multi-modal attention system for a mobile robot. In Proceedings of the 5th international conference on Multimodal interfaces (ICMI '03). ACM, New York, NY, USA, 28-35. DOI=10.1145/958432.958441
<http://doi.acm.org/10.1145/958432.958441>

Haasch, A.; Hofemann, N.; Fritsch, J.; Sagerer, G., "A multi-modal object attention system for a mobile robot," Intelligent Robots and Systems, 2005. (IROS 2005). 2005 IEEE/RSJ International Conference on , vol., no., pp.2712,2717, 2-6 Aug. 2005, doi: 10.1109/IROS.2005.1545191, URL: <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=1545191&isnumber=32977>

Imai, M.; Ono, T.; Ishiguro, H., "Physical relation and expression: joint attention for human-robot interaction," *Industrial Electronics, IEEE Transactions on* , vol.50, no.4, pp.636,643, Aug. 2003, doi: 10.1109/TIE.2003.814769,
URL: <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=1215465&isnumber=27338>

Maria Staudte, Matthew W. Crocker, Investigating joint attention mechanisms through spoken human-robot interaction, *Cognition*, Volume 120, Issue 2, August 2011, Pages 268-291, ISSN 0010-0277, <http://dx.doi.org/10.1016/j.cognition.2011.05.005>
(<http://www.sciencedirect.com/science/article/pii/S0010027711001302>)

Sirkin, D., Venolia, G., Tang, J., Robertson, G., Kim, T., Inkpen, K., ... & Sinclair, M. (2011). Motion and attention in a kinetic videoconferencing proxy. In *Human-Computer Interaction-INTERACT 2011* (pp. 162-180). Springer Berlin Heidelberg.

17 Living With Robots

Koay, K.L.; Syrdal, D.S.; Walters, M.L.; Dautenhahn, K., "Living with Robots: Investigating the Habituation Effect in Participants' Preferences During a Longitudinal Human-Robot Interaction Study," *Robot and Human interactive Communication, 2007. RO-MAN 2007. The 16th IEEE International Symposium on* , vol., no., pp.564,569, 26-29 Aug. 2007, doi: 10.1109/ROMAN.2007.4415149,
URL: <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=4415149&isnumber=4415042>

Hancock, P. A., Billings, D. R., Schaefer, K. E., Chen, J. Y., De Visser, E. J., & Parasuraman, R. (2011). A meta-analysis of factors affecting trust in human-robot interaction. *Human Factors: The Journal of the Human Factors and Ergonomics Society*, 53(5), 517-527.

Lee, M. K., Forlizzi, J., Rybski, P. E., Crabbe, F., Chung, W., Finkle, J., ... & Kiesler, S. (2009, March). The snackbot: documenting the design of a robot for long-term human-robot interaction. In *Human-Robot Interaction (HRI), 2009 4th ACM/IEEE International Conference on* (pp. 7-14). IEEE.

Wada, K., & Shibata, T. (2007). Living with seal robots—its sociopsychological and physiological influences on the elderly at a care house. *Robotics, IEEE Transactions on*, 23(5), 972-980.

18 Telepresence Robots

<https://www.suitabletech.com/beam-plus/#lifeWithBeamPlus>

Katherine M. Tsui, Munjal Desai, Holly A. Yanco, and Chris Uhlik. 2011. Exploring use cases for telepresence robots. In Proceedings of the 6th international conference on Human-robot interaction (HRI '11). ACM, New York, NY, USA, 11-18. DOI=10.1145/1957656.1957664
<http://doi.acm.org/10.1145/1957656.1957664>

Desai, M., Tsui, K. M., Yanco, H. A., & Uhlik, C. (2011, April). Essential features of telepresence robots. In Technologies for Practical Robot Applications (TePRA), 2011 IEEE Conference on (pp. 15-20). IEEE.

Sigurdur O. Adalgeirsson and Cynthia Breazeal. 2010. MeBot: a robotic platform for socially embodied presence. In *Proceedings of the 5th ACM/IEEE international conference on Human-robot interaction* (HRI '10). IEEE Press, Piscataway, NJ, USA, 15-22.

Kristoffersson, A., Coradeschi, S., Eklundh, K. S., & Loutfi, A. (2011). Sense of presence in a robotic telepresence domain. In *Universal Access in Human-Computer Interaction. Users Diversity* (pp. 479-487). Springer Berlin Heidelberg.

Annica Kristoffersson, Silvia Coradeschi, and Amy Loutfi. 2013. A review of mobile robotic telepresence. *Adv. in Hum.-Comp. Int.* 2013, Article 3 (January 2013), 1 pages.
DOI=10.1155/2013/902316 <http://dx.doi.org/10.1155/2013/902316>