

REFERENCES

- [1] Ronald T Azuma. 1997. A survey of augmented reality. *Presence: Teleoperators & Virtual Environments* 6, 4 (1997), 355–385.
- [2] Manuele Brambilla, Eliseo Ferrante, Mauro Birattari, and Marco Dorigo. 2013. Swarm robotics: a review from the swarm engineering perspective. *Swarm Intelligence* 7, 1 (2013), 1–41.
- [3] Angelo Croatti and Alessandro Ricci. 2017. Mashing Up the Physical and Augmented Reality: The Web of Augmented Things Idea. In *Proceedings of the Eighth International Workshop on the Web of Things (WoT 2017)*. ACM, New York, NY, USA, 4–7. <https://doi.org/10.1145/3199919.3199921>
- [4] Angelo Croatti and Alessandro Ricci. 2018. A Model and Platform for Building Agent-Based Pervasive Mixed Reality Systems. In *Advances in Practical Applications of Agents, Multi-Agent Systems, and Complexity: The PAAMS Collection*, Yves Demazeau, Bo An, Javier Bajo, and Antonio Fernández-Caballero (Eds.). Springer International Publishing, Cham, 127–139.
- [5] Jifeng Dai, Kaiming He, and Jian Sun. 2016. Instance-aware semantic segmentation via multi-task network cascades. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition*. 3150–3158.
- [6] Jacques Ferber and Gerhard Weiss. 1999. *Multi-agent systems: an introduction to distributed artificial intelligence*. Vol. 1. Addison-Wesley Reading.
- [7] David Gelernter. 1991. *Mirror Worlds or the Day Software Puts the Universe in a Shoebox: How Will It Happen and What It Will Mean*. Oxford University Press, Inc., New York, NY, USA.
- [8] Michael Grieves. 2014. Digital twin: manufacturing excellence through virtual factory replication. *White paper* (2014).
- [9] Jane Hillston, Jeremy Pitt, Martin Wirsing, and Franco Zambonelli. 2015. Collective adaptive systems: qualitative and quantitative modelling and analysis (Dagstuhl Seminar 14512). In *Dagstuhl Reports*, Vol. 4. Schloss Dagstuhl-Leibniz-Zentrum fuer Informatik.
- [10] Thomas Holz, Abraham G. Campbell, Gregory M.P. O’Hare, John W. Stafford, Alan Martin, and Mauro Dragone. 2011. MiRA—Mixed Reality Agents. *International Journal of Human-Computer Studies* 69, 4 (2011), 251 – 268. <https://doi.org/10.1016/j.ijhcs.2010.10.001>
- [11] N. R. Jennings, L. Moreau, D. Nicholson, S. Ramchurn, S. Roberts, T. Rodden, and A. Rogers. 2014. Human-agent Collectives. *Commun. ACM* 57, 12 (Nov. 2014), 80–88. <https://doi.org/10.1145/2629559>
- [12] Matthias Kranz, Paul Holleis, and Albrecht Schmidt. 2010. Embedded interaction: Interacting with the internet of things. *IEEE internet computing* 14, 2 (2010), 46–53.
- [13] Jonathan Long, Evan Shelhamer, and Trevor Darrell. 2015. Fully convolutional networks for semantic segmentation. In *Proceedings of the IEEE conference on computer vision and pattern recognition*. 3431–3440.
- [14] Pattie Maes. 1994. Agents That Reduce Work and Information Overload. *Commun. ACM* 37, 7 (July 1994), 30–40. <https://doi.org/10.1145/176789.176792>
- [15] Paul Milgram and Fumio Kishino. 1994. A taxonomy of mixed reality visual displays. *IEICE TRANSACTIONS on Information and Systems* 77, 12 (1994), 1321–1329.
- [16] C. Perera, A. Zaslavsky, P. Christen, and D. Georgakopoulos. 2014. Context Aware Computing for The Internet of Things: A Survey. *Communications Surveys Tutorials, IEEE* 16, 1 (First 2014), 414–454.
- [17] A. Ricci, M. Piunti, L. Tummolini, and C. Castelfranchi. 2015. The Mirror World: Preparing for Mixed-Reality Living. *IEEE Pervasive Computing* 14, 2 (Apr 2015), 60–63. <https://doi.org/10.1109/MPRV.2015.44>
- [18] J.P. Shim, Merrill Warkentin, James F. Courtney, Daniel J. Power, Ramesh Sharda, and Christer Carlsson. 2002. Past, present, and future of decision support technology. *Decision Support Systems* 33, 2 (2002), 111 – 126. [https://doi.org/10.1016/S0167-9236\(01\)00139-7](https://doi.org/10.1016/S0167-9236(01)00139-7) Decision Support System: Directions for the Nest Decade.