

<b>Topic</b>	<b>Robots and AI-based Technologies in the Working World of Tomorrow</b>
<b>Overview</b>	<p>Technologies, such as robots, will be an important part of the future working world. In order to reap the benefits of the integration of such technologies, it is important to consider how the interactions with human partners will evolve in several settings.</p> <p>Sample topics are:</p> <ul style="list-style-type: none"><li>• <b>Robot Design in the Working World:</b> How does the “perfect” robot look like in terms of its design and physical appearance? The central question here is how design features and functionalities shape user / employee acceptance. Based on this, practical recommendations for robot deployment can be derived.</li><li>• <b>Ethics &amp; AI:</b> Ethical considerations are becoming increasingly important as sophisticated technologies are entering many places of our lives. What are current regulations and how can they be integrated? What needs to be changed to create a secure environment?</li><li>• <b>Technology vs. Human:</b> Many people fear that they will lose their job due to robots or AI-based technologies. But what can robots actually do better and where do people excel? What are strategies to create synergies and successful collaboration?</li></ul>
<b>Language</b>	English
<b>Exemplary literature</b>	<p>Stock-Homburg, R. (2022). Survey of emotions in human–robot interactions: Perspectives from robotic psychology on 20 years of research. <i>International Journal of Social Robotics</i>, 14(2), 389-411.</p> <p>Stock-Homburg, R. M., &amp; Heitlinger, L. (2022). Good Robot, Bad Robot: Customer Responses to Norm-Compliant and Norm-Violating Service Robots.</p> <p>Wirtz, J., Patterson, P. G., Kunz, W. H., Gruber, T., Lu, V. N., Paluch, S., &amp; Martins, A. (2018). Brave new world: service robots in the frontline. <i>Journal of Service Management</i>, 29(5), 907-931.</p>

<b>Additional information</b>	<p>Type of thesis: Bachelor or master thesis</p> <p>Start: Mid 2024</p> <p>Requirements: Interest in the topic</p> <p>Publication: Excellent work can be submitted and published as a conference paper or at TU Prints</p>
<b>Contact</b>	<p>If you are interested, please contact Lea Heitlinger (<a href="mailto:lea.heitlinger@bwl.tu-darmstadt.de">lea.heitlinger@bwl.tu-darmstadt.de</a>)</p> <p>Prof. Dr. Dr. Ruth Stock-Homburg</p>

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