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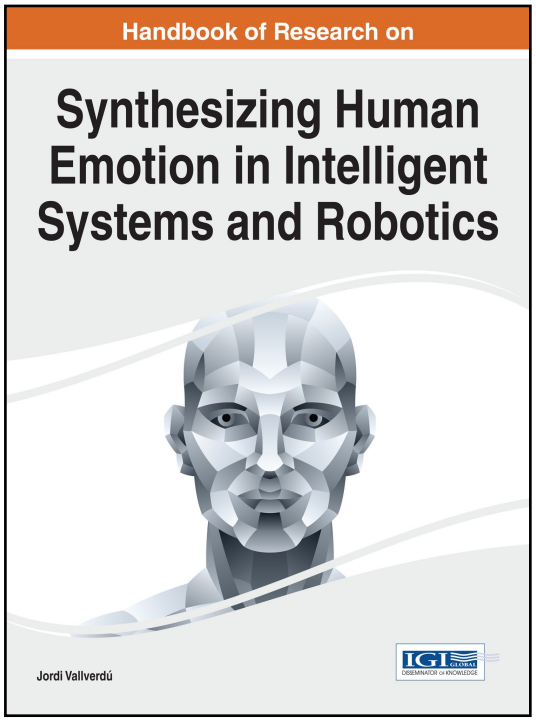
Handbook of Research on Synthesizing Human Emotion in Intelligent Systems and Robotics



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Part of the Advances in Computational Intelligence and Robotics Book Series

Jordi Vallverdú (Universitat Autònoma de Barcelona, Spain)

Emotions convey significant information through means of natural language analysis, embodiment, and emotional signing. Machines equipped with the ability to experience and interpret emotions perform better in complex environments and share in the emotionally-rich social context.

The **Handbook of Research on Synthesizing Human Emotion in Intelligent Systems and Robotics** presents a solid framework for taking human-robot interaction closer to its full potential. Presenting a close look at all the factors involved in modeling emotions and applying a thorough understanding of human emotional recognition to technology, this volume appeals to active researchers in the fields of artificial emotions, artificial intelligence, computing, robotics, philosophy, and psychology, as well as to students interested in the research of synthetic emotions.

Topics Covered:

- Artificial Emotions
- Artificial intelligence
- Emotional Recognition
- Human Emotional Recognition
- Human-Robot Interaction
- Intelligent Systems
- Robotics
- Synthetic Emotions

Market: This premier publication is essential for all academic and research library reference collections. It is a crucial tool for academicians, researchers, and practitioners. Ideal for classroom use.

Jordi Vallverdú, Ph.D., M.A. is a Lecturer Professor at Universitat Autònoma de Barcelona (Catalonia, Spain), where he teaches Philosophy and History of Science and Computing. He holds a Ph.D. in philosophy of science (UAB) and a master in history of sciences (UAB). His research is dedicated to the epistemological, ethical, gender, and educational aspects of Philosophy of Computing and Science. Jordi is Member of the Steering Committee of the European Association for Philosophy & Computing, E-CAP, Member of the Spanish Society of Logic, Methodology and Philosophy of Science, Member of the GEHUCT (Grup d'Estudis Interdisciplinaris sobre Ciència i Tecnologia) research project, Member of the TECNOCOG (Philosophy, Technology and Cognition Research Group), Member of EUCogII, Main researcher of SETE (Synthetic Emotions in Technological Environments), and Expert of the Biosociety Research (European Commission: http://ec.europa.eu/research/biosociety/index_en.htm). His last book (as author as well as editor) is (2009) *Handbook Of Research On Synthetic Emotions And Sociable Robotics*, USA: IGI. He is the Editor-in-Chief of the *International Journal of Synthetic Emotions* (http://www.igi-global.com/journals/details.asp?id=33374).

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