Motivated Reinforcement Learning

Kathryn E. Merrick, Mary Lou Maher

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Motivated learning is an emerging research field in artificial intelligence and cognitive modelling.
Computational models of motivation extend reinforcement learning to adaptive, multitask learning in
complex, dynamic environments – the goal being to understand how machines can develop new skills and
achieve goals that were not predefined by human engineers. In particular, this book describes how motivated
reinforcement learning agents can be used in computer games for the design of non-player characters that
can adapt their behaviour in response to unexpected changes in their environment. This book covers the
design, application and evaluation of computational models of motivation in reinforcement learning. The
authors start with overviews of motivation and reinforcement learning, then describe models for motivated
reinforcement learning. The performance of these models is demonstrated by applications in simulated game
scenarios and a live, open-ended virtual world. Researchers in artificial intelligence, machine learning and
artificial life will benefit from this book, as will practitioners working on complex, dynamic systems – in
particular multiuser, online games.

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