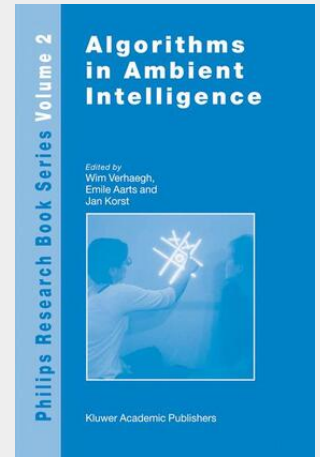


Algorithms in Ambient Intelligence

The advent of the digital era, the Internet, and the development of fast computing devices that can access mass storage servers at high communication bandwidths have brought within our reach the world of ambient intelligent systems. These systems provide users with information, communication, and entertainment at any desired place and time. Since its introduction in 1998, the vision of Ambient Intelligence has attracted much attention within the research community. Especially, the need for intelligence generated by smart algorithms, which run on digital platforms that are integrated into consumer electronics devices, has strengthened the interest in Computational Intelligence. This newly developing research field, which can be positioned at the intersection of computer science, discrete mathematics, and artificial intelligence, contains a large variety of interesting topics including machine learning, content management, vision, speech, data mining, content augmentation, profiling, contextual awareness, feature extraction, resource management, security, and privacy.



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