

Robotics research and advanced applications

American Society of Mechanical Engineers - Robots and Their Applications

Description: -



Representations of groups
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Museum of Modern Art (New York, N.Y.) -- Exhibitions
Nissin Shokuhin Kabushiki Kaisha -- History.
Medical genetics.
Human chromosome abnormalities.
Human genetics.
Robots, Industrial -- Congresses.

Robotics -- Congresses.Robotics research and advanced applications

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Notes: Includes bibliographical references.

This edition was published in 1982



Filesize: 36.210 MB

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Advanced Robotics in the Factory of the Future

In the long term, we expect distinctions among advanced robots to be less well defined, as some will be able to perform tasks in both manufacturing and logistics. And we can already see some hints of reaction to this trend in the current economy: entrepreneurially-minded unemployed and underemployed people are taking advantages of sites like Etsy and TaskRabbit to market quintessentially human skills.

Primer on artificial intelligence and robotics

Robots of various forms will result in less work, but the conventional work week will decrease, so there will be the same number of jobs adjusted for demographics, of course. At a broader level, any machine that can be used to carry out complex actions or tasks in an automatic manner may be considered a robot.

AI, Robotics, and the Future of Jobs

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Robots and Their Applications

Accordingly, it is possible that technologies incorporating artificial intelligence may be able to automate far more tasks than pure robotics-based technologies. We need evidence-based research on how artificial intelligence affects firm-level productivity, employment, and wages, as well as research on how artificial intelligence may affect economic outcomes with distributional consequences, such as innovation, business dynamism, and inequality. AI and robotics will be a niche, with a few leading applications such as banking, retailing, and transport.

Advanced Robotics

Such applications are most relevant to process industries, where inspections are often difficult to perform.

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