

## Re: Population problem? Solved!

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Kent Paul Dolan wrote:

>  
> *Prove what? That you look like an idiot answering*  
> *articles you haven't finished reading? The matter is*  
> *self documenting, it doesn't need my help to make it*  
> *obvious.*

Where are the robots that

1. Mow lawns.
2. Do chiropract manipulation.
3. Paint houses.
4. Judge beauty contests.
5. Argue cases in court.
6. Baby sit.
7. Offer solace to the bereaved.
8. Giving home care to the sicke and elderly
9. Nursing care in hosptials that deal with acute conditions such as in the emergency rooms.
10. Serving meals elegantly in restaurants
11. Cooking and preparing the food in an attractive manner.
- 12 Picking lettuce, tomatoes and beans (still done best by huamans. becuse machines mash and damage the product).
13. Translating speech and documents. Machine translations suck lemons.
14. Proving theorems. Forty years of research in theorme provers have result in computer programs can can only prove trivialites and cannot decide ahead of time what is important enough to pove.
15. Inventing new stuff. Try automating that!

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etc. etec.

The list goes on into the millions and tens of millions of tasks.

Our economy is now mostly a service economy. Many manufacturing operations have been automated, heavily mechanized (that means a human

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is still in the loop) or off-shored. What does that leave? Services that cannot be mechanized, automated or economically off-shored. Try off-shoring or mechanizing chiropractic for example.

Services are infinitely varied. Manufacturing involves limited motions and operations which is why some manufacturing is automated economically. A robot can drill out an engine block better than a human using a tool. But a robot cannot clean out the interior of a car, which is why the cleaning done at car-wash establishments is done by humans.

Most services can be done better or cheaper by humans, than by robots which is why not only are they NOT automated, they WILL NOT be automated for it makes no economic sense to do so.

You do not automate something that can be done better or cheaper by humans. Humans, as general purpose agents, are much more capable than machines. Machines are dandy force multipliers but they suck at making nuanced judgements.

Bob Kolker

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