

Segregation of Medical Waste and Recycling using Soft Computing Techniques

Segregation of medical waste is possible only with development of consciousness among work-force in hospitals and strict law enforcement. By placing separate bins in each and every hospital and collective cooperation among small clinics it is possible to move the waste to separate bins. Larger private hospitals and government run hospitals can have their own waste bins to be transferred by municipalities or corporations.

It is now the role of waste management unit of each government institution that needs to come into play. Ensuring of segregation is to be done. Recycling of plastic objects like vials, bottles, trays could be done by plastic shredders. Articles made of rubber could be synthesized for reuse. Glass products can be recycled in separate units after clean up. Hazardous chemicals from medicine and radio-active materials pose a great challenge for recycling. Safe transportation of all these medical waste is very important. Moreover the location of waste management unit should be such that they don't affect the neighborhood.

Though many techniques like AHP, DEMATEL, COPRAS, ANP, MOORA have been developed to do this, still research has been going on for ensuring thorough segregation recycling. My work will concentrate on these kinds of operations management techniques where there is a lot to do.