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Dynamic Allocation of Stochastically-Arriving Flexible Resources to Random Streams of Objects with Application to Kidney Cross-Transplantation

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Highlights

- A dynamic allocation model of flexible resources to streams of objects is studied
- Allocation probabilities depend on system's states
- The model is applied to kidney cross-transplantation
- Novel measure Expected Value of Transplantation based on human-leukocyte-antigen fit
- Optimal probabilities of cross-transplantation are calculated

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