## Leader-based Random Keys Encoding Scheme structure of chromosomes Refresh information Initialized population S N , $N_{\circ}$ $N_4 \mid O_0$ a portion of best S Requests Average ••• Generate Probability Population Free service : Free service provider providers : Request Father a portion of best S chromosomes Service Output the best provider fairness ••• a portion of best S a portion of best S New chromosomes replace ••• mutate Mother a portion of worst -37.830 -37.825 -37.820 -37.835 -37.830 -37.805 -37.800 a portion of worst chromosomes a portion of best S Cluster historical data and Customer assign the initial positions of fairness the service providers. •••