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Permasalahan penjadwalan bidan merupakan salah satu permasalahan yang sering terjadi di rumah sakit. Tenaga kebidanan harus tersedia 24 jam sehari selama satu minggu penuh untuk memenuhi kebutuhan pasien karena itu, baik buruknya penjadwalan bidan akan berdampak pada kualitas pelayanan terhadap pasien dan kesehatan bidan yang bertugas. Proses Penjadwalan bidan membutuhkan banyak waktu, tenaga dan kerja sama yang baik antara beberapa pihak untuk menyelesaikanya masalah inilah yang sering dihadapi oleh Rumah Sakit Umum Daerah (RSUD) Undata Palu Provinsi Sulawesi Tengah.
Penelitian ini bertujuan menerapkan algoritma Memetika untuk membuat sistem penjadwalan tenaga kebidanan di RSUD Undata Palu Provinsi Sulawesi Tengah yang dapat memudahkan proses penjadwalan tenaga kebidanan sekaligus dapat menghasilkan jadwal yang optimal. Sistem penjadwalan yang dibuat akan mengikuti aturan serta kebijakan yang berlaku di rumah sakit dan juga akan memperhatikan preferensi (keinginan) dari bidan tentang bagaimana penyusunan jadwal yang sesuai kebiasaan dan kebutuhan mereka.
Algoritma memetika merupakan algoritma optimasi yang menggabungkan Algoritma Evolusi dan metode Pencarian Lokal. Pencarian Lokal pada algoritma Memetika bertujuan untuk meningkatkan kualitas suatu individu sehingga diharapkan dapat mempercepat waktu ditemukanya suatu solusi. Berdasarkan hasil penelitian, algoritma Memetika dapat secara efektif dan efesien dalam menghasilkan jadwal tenaga kebidanan yang optimal.
Kata kunci: Penjadwalan Bidan, Algoritma Memetika, Algoritma Evolusi,
Pencarian Lokal
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4772025-96393000ABSTRACT
The problem of midwife scheduling is one of the most frequent problems in hospitals. Midwife should be available 24 hours a day for a full week to meet the needs of the patient. Therefore, good or bad midwife scheduling result will have an impact on the quality of care on the patient and the health of the midwife on duty. The midwife scheduling process requires a lot of time, effort and good cooperation between some parties to solve this problem that is often faced by the Regional Public Hospital Undata Palu Central Sulawesi Province.
This research aimed to apply Memetics algorithm to make scheduling system of midwifery staff at Regional Public Hospital Undata Palu Central Sulawesi Province that can facilitate the process of midwifery scheduling as well as to produce optimal schedule. The scheduling system created will follow the rules and policies applicable in the hospital and will also pay attention to the midwife's preferences on how to schedule them according to their habits and needs.
Memetics algorithm is an optimization algorithm that combines Evolution Algorithm and Local Search method. Local Search on memetics algorithm aims to improve the quality of an individual so it is expected to accelerate the time of finding a solution. Based on the results of the research, Memetika algorithm can effectively and efficiently in producing optimal midwifery schedule.
Keywords: Midwife Scheduling, Memetics Algorithm, Evolution Algorithm,
Local Search
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