

ABSTRACT

**APPLICATION OF KHUTBAH JUM'AT SCHEDULING IN
ISLAMIC BANJARAN UNIT BRANCH LEADERS WITH
PRIORITY SCHEDULING APPROACH AND CONSTRAINT
SATISFACTION PROBLEM**

Islamic Union Branch Manager of Banjaran in Bandung Regency has routine activities, namely scheduling Friday sermons every once a month, making the schedule takes a long time, approximately one month. This is due to the large number of mosques and preachers registered in the Branch Office of the Islamic Association of Banjaran, to overcome this problem, this study applies the Constraint Satisfaction Problem and Priority Scheduling to schedule Friday sermon automatically. Based on the results of testing, the technique offered succeeded in making a schedule with an accuracy of 86,65% with an average time of 7,58 seconds.

Keywords: PC Persis Banjaran, Friday Sermon Scheduling, Constraint Satisfaction Problem, Priority Scheduling


UIN
UNIVERSITAS ISLAM NEGERI
SUNAN GUNUNG DJATI
BANDUNG

ABSTRAK

APLIKASI PENJADWALAN KHUTBAH JUM'AT DI PIMPINAN CABANG PERSATUAN ISLAM BANJARAN DENGAN PENDEKATAN *PRIORITY SCHEDULING* DAN *CONSTRAINT SATISFACTION PROBLEM*

Pimpinan Cabang Persatuan Islam Banjaran di Kabupaten Bandung memiliki kegiatan rutin yaitu penjadwalan khutbah Jum'at setiap satu bulan sekali, pembuatan jadwal tersebut memerlukan waktu yang lama, kurang lebih satu bulan. Hal tersebut dikarenakan banyaknya jumlah masjid dan mubaligh yang terdaftar di Pimpinan Cabang Persatuan Islam Banjaran, untuk mengatasi masalah tersebut, maka penelitian ini menerapkan Constraint Satisfaction Problem dan Priority Scheduling untuk pembuatan jadwal khutbah Jum'at secara otomatis. Berdasarkan hasil pengujian, teknik yang ditawarkan berhasil membuat jadwal dengan akurasi sebesar 86,65% dengan waktu rata-rata 7,58 detik.

Kata Kunci: PC Persis Banjaran, Penjadwalan Khutbah Jum'at, Constraint Satisfaction Problem, Priority Scheduling