Ni Luh Suwedani Putri, 2013. *Perancangan Sistem Pendukung Keputusan dalam Menentukan Promosi Karyawan pada PT. Sinar Sosro KPW Jawa Timur dengan Metode Fuzzy Analytical Hierarchy Process*. Skripsi ini dibawah bimbingan Drs. Eto Wuryanto, DEA dan Purbandini, S.Si, M.Kom. Program Studi S1 Sistem Informasi. Fakultas Sains dan Teknologi, Universitas Airlangga.

ABSTRAK

Tahap penilaian dalam promosi karyawan merupakan bagian penting yang mempengaruhi pengambilan keputusan. Dalam tahap penilaian menggunakan multi kriteria yang tidak hanya bersifat kuantitatif tetapi juga kualitatif sehingga menjadi kesulitan bagi panelis untuk memberikan penilaian secara tepat. Disamping itu, subyektifitas yang tinggi menjadi masalah selama penilaian berlangsung. Pada penelitian ini, dirancang suatu sistem pendukung keputusan promosi karyawan dengan menggunakan metode *Fuzzy Analytical Hierarchi Process* (FAHP) yang bertujuan untuk membantu managemen dalam mengambil keputusan.

Perancangan sistem pendukung keputusan promosi karyawan dilakukan melalui tiga tahap. Tahap yang pertama adalah pengumpulan data melalui wawancara dan kuisioner untuk memperoleh tingkat kepentingan kriteria dan batasan nilai. Tahap kedua adalah pengolahan data hasil kuisioner dengan metode FAHP. Langkah-langkah dalam pengolahan data yaitu *Decomposition*, *Pairwise Comparison Matrix* (PCM), *Logical Consistency*, konversi PCM, *Synthetic Pairwise Comparison*, *Fuzzy Weight*, penilaian alternatif karyawan, *Fuzzy Synthetic Decision*, dan *Fuzzy Ranking*. Tahap ketiga adalah perancangan sistem. Perancangan sistem dimulai dari perancangan *Data Flow Diagram* (DFD) untuk menggambarkan entitas, proses, *data store*, dan alur data yang berperan dalam promosi karyawan, kemudian penyusunan algoritma, dan selanjutnya perancangan antarmuka sistem.

Penelitian ini menghasilkan rancangan sistem pendukung keputusan dengan menerapkan metode FAHP yang terdiri dari 2 entitas dan 7 *data store* pada rancangan DFD, algoritma promosi karyawan, dan desain antarmuka untuk panelis dan admin.

Kata kunci : *perancangan sistem pendukung keputusan, promosi karyawan, fuzzy, analytical hierarchy process*.

Ni Luh Suwedani Putri, 2013. *Design of Decision Support System in Determining Employee Promotion at PT. Sinar Sosro East Java Regional Sales Office using Fuzzy Analytical Hierarchy Process methods.* This undergraduate thesis was under guidance by Drs. Eto Wuryanto, DEA and Purbandini, S.Si, M.Kom. Bachelor Degree Information System Study Program. Faculty of Science and Technology, Airlangga University.

ABSTRACT

Assessment stage in promotion employee is an important part that affects decision-making. This stage using multi-criteria which is not only quantitative criteria but also qualitative thus becomes difficult for the panelists to give a proper assessment. In addition, the high subjectivity becomes a problem during the assessment. In this research, a decision support system of employee promotion was designed using *Fuzzy Analytical Hierarchi Process* (FAHP) method to assist management in making decisions.

Design of decision support systems of employee promotion conducted through three stages. The first stage was collected data through interviews and questionnaires to obtain the importance level of criteria and thresholds. The second stage was processed of data from questionnaires by Fuzzy Analytical Hierarchy Process (FAHP). Steps of processing data were Decomposition, Pairwise Comparison Matrix (PCM), Logical Consistency, PCM conversion, Synthetic Pairwise Comparison, Fuzzy Weight, Alternative Assesment, Fuzzy Synthetic Decision, and Fuzzy Ranking. The third stage was design system. Design system starts from designing Data Flow Diagrams (DFD) to describe entities, processes, data stores, and data flow which play a role in the employee promotion, then forming algorithms, then designing user interface.

This research results a design of decision support system by applying FAHP method which consists of 2 entities and 7 data stores on design of DFD, algorithms of employee promotion, and design of user interface for panelists and admin.

Keyword : *design of decision support system, promotion of employees, fuzzy, analytical hierarchy process*.