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Analisis Resiko Human Error dengan Metode Human Reliability pada Proyek Konstruksi = Analysis of Human Error Risk with Human Reliability Methods in Construction Project

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Abstrak

Angka kecelakaan kerja di Indonesia yang tergolong tinggi, mengakibatkan adanya urgensi untuk menjaga keselamatan pekerja yang jumlahnya semakin meningkat. Sektor penyumbang kecelakaan kerja terbesar di Indonesia adalah sektor konstruksi, termasuk konstruksi gedung dan menyebabkan kerugiaan fisik maupun finansial yang besar. Kecelakaan kerja biasanya disebabkan oleh kesalahan manusia dan sangat berkaitan dengan reliabilitas manusia.
Penggunaan metode Fuzzy Cognitive Reliability and Error Analysis Method (Fuzzy CREAM) ditujukan dalam penelitian untuk menganalisa pola perilaku pekerja yang mempengaruhi resiko kecelakaan kerja digabungkan dengan simulasi Bayesian Network. 176 pekerja konstruksi bangunan di wilayah Jakarta dan sekitarnya menjadi objek penelitian. Nilai Human Error Probability (HEP) berhasil didapatkan dan pemberian solusi dilakukan berdasarkan karakteristik pekerja dalam kategori Control Mode.
.....Work injury rates in Indonesia are relatively high, resulting in an urgency to maintain the safety of workers whose numbers are increasing. The biggest sector contributing to work accidents in Indonesia is the construction area, including building construction and causing large physical and financial losses. Workplace accidents are usually caused by human error and are strongly related to human reliability.
The use of Fuzzy Cognitive Reliability and Error Analysis Method (Fuzzy CREAM) method is aimed at research to analyze patterns of worker behavior that affect the risk of workplace accidents combined with Bayesian Network simulation. 176 construction workers in the Jakarta and surrounding areas became the object of research. The value of Human Error Probability (HEP) was successfully obtained and the solution was given based on the characteristics of workers in the Control Mode category.