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## **Weld Classification In Radiographic Images: Data Mining Approach**

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### **Abstract**

The need for non-destructive evaluation (NDE) technologies for maintenance of complex welded structures such as pressure vessels, load bearing structural members and power plants has long been recognized. This paper presents an application of data mining approach for weld data extracted from reported radiographic images. Data mining is the extraction of implicit, previously unknown and potentially useful information from data. In recent times, machine-learning models such, as neural networks are becoming standard tools for data mining of scientific data. This paper addresses various issues related to data mining and demonstrates their application. The study highlights the two major aspects of insight of data and prediction of the model for the problem domain.