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RESEARCH EVALUATING THE EFFECTIVENESS OF SULFUR REMOVAL IN WASTEWATER USING THE SSF-
CW SYSTEM

River	Parameters	COD	BOD ₍₅₎	TSS	Cu	Fe	NH ₄ ⁽⁺⁾	NO ₂ ⁽⁻⁾	PO ₄ ⁽³⁻⁾
Chu O	Mean (mg/l)	17.6	7.1	47.7	0.037	0.507	0.242	0.036	0.085
Dong Ho	Mean (mg/l)	16.9	6.9	43.5	0.037	0.447	0.239	0.028	0.073
Hong	Mean (mg/l)	18.8	6.9	44.4	0.042	0.262	0.186	0.043	0.047
Ngoi Duong	Mean (mg/l)	20.0	7.8	57.0	0.039	0.514	0.257	0.024	0.045
Ngoi Phat	Mean (mg/l)	17.5	6.6	35.6	0.046	0.260	0.148	0.023	0.039
	≤ 10	≤ 4	≤ 25	-	-	-	-	-	-
	≤ 15	≤ 6	≤ 100	-	-	-	-	-	-

Research Methodology

Cluster Analysis (CA)

Cluster Analysis (CA) mẫu toán học xác định số lượng nhóm thông qua thống kê khoảng cách Gap Statistic:

$$Gap(K) = E[\log(W_K^*)] - \log(W_K)$$

Principal Component Analysis (PCA)

Phân tích thành phần chính biến đổi hệ thống dữ liệu nhiều chiều theo phương trình tổ hợp tuyến tính:

$$PC_i = a_{1i}X_1 + a_{2i}X_2 + \dots + a_{pi}X_p$$

Results and Discussion

Thuật toán phân tích đưa ra kết quả phân nhóm đặc trưng nguồn nước lưu vực sông ngòi tỉnh Lào Cai thành 3 cụm rõ rệt dựa trên ảnh hưởng địa chất mỏ và nước thải khu công nghiệp.

Conclusion

Nghiên cứu đã hoàn thành việc phân loại chất lượng nước mặt vùng mỏ phục vụ công tác quản lý môi trường bền vững.

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RISK MANAGEMENT PRACTICES IN VIETNAMESE ENTERPRISES IN THE CONTEXT OF DIGITAL TRANSFORMATION

Abstract

Amid rapid changes in the business environment, Vietnamese enterprises are facing increasingly complex and diverse risks. The integration of advanced digital technologies, including Artificial Intelligence (AI), Cloud Computing, Big Data, and the Internet of Things (IoT), into business operations has not only transformed the nature of traditional risks but also generated new categories of digital risks, requiring organizations to adopt more adaptive and proactive risk management approaches. This study examines the fundamental changes in the models, mindsets, and practices of risk management among Vietnamese enterprises in the context of digital transformation. A qualitative research methodology was employed,