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Abstract: The proceedings contain 159 papers. The topics discussed include: exam-based image-text logic consistency verification via feature-wise modulation and residual fusion; bidirectional graph fusion of functional brain networks and genetic data; FCENet: frequency-selective and cross-view enhancement network for stereo matching; precision detection of gastric cancer using MCSCN; research on dynamic prediction of construction schedule based on TCN-BiGRU-transformer; a machine learning-based method for retrieving atmospheric temperature and humidity profiles from FY4B-GIIRS data; research on optimization and performance testing of key technologies in distributed computing; an AI search method for power grid PC-based image-text knowledge bases based on multimodal large language models; and design and development of an AI-driven safety production automation early warning system for chemical enterprises based on multimodal data fusion and digital twins.

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