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Cover
Various magnetic field configurations are generated by changing the winding of the helical coils. To automatically remove those containing magnetic islands from the candidates for optimized configurations, we developed a machine-learning image diagnostic method. The upper panel of the figure shows the original Poincaré plots, and the middle panel shows the preprocessed images that were loaded as training data. The preprocessing makes it easier to determine the region of magnetic islands.
(Sora YABUMOTO *et al.*, Plasma and Fusion Research, Vol. 18, 1403018 (2023) http://www.jspf.or.jp/)