Several years El Niño forecast using a wavelet-based mode decomposition

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We introduce a new method for forecasting major El Niño/La Niña events based on a wavelet mode decomposition. The ENSO time series is first approximated by a superposition of "pseudo-periodic" signals which can be easily extrapolated to give several years predictions. One year hindcast, as retroactive prediction, allows to recover up to 90% of the El Niño/La Niña events of the last 60 years.