Flow field forecasting, first developed in 2011, is a multi-purpose forecasting methodology for forecasting a univariate time series of streaming data. The original software was used to forecast network performance characteristics. This talk will provide an overview of flow field forecasting and the two new enhancements, multivariate forecasting and the automatic selection of the history structure used to create the forecast. Several demonstrations will show how flow field forecasting compares to traditional forecasting methods (i.e. Box Jenkins Arima, exponential smoothing and neural networks).