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Tackling complex synchronization dynamics in coupled oscillators using a higher-order averaging method

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Synchronization of coupled oscillators emerges ubiquitously in various disciplines and is often responsible for the function of a system. Phase oscillator models, which are derived based on the projection onto the time-translation mode and time averaging, are simple but powerful platforms not only for understanding but also for controlling synchronization dynamics of real-world oscillators. Here, I will present recent achievements with an emphasis on the utility of a higher-order averaging method.