

MINI-CONFERENCE  
*Path Following and Boundary Value Problems:  
A Continuing Influence in Dynamics*  
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## Computing multiple time scale dynamical systems

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### **Abstract**

Collocation and continuation methods are an effective tool for following the evolution of periodic orbits of dynamical systems and for computing their bifurcations. Application of these methods to relaxation oscillations (periodic orbits with multiple time scales) encounters technical problems. This lecture will discuss these problems, present examples and suggest strategies for coping with unresolved issues.