



*Smart Structures and Materials 1994*

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***Mathematics and Control  
in Smart Structures***

**H. Thomas Banks**

*Chair/Editor*

**14–16 February 1994**

**Orlando, Florida**

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Pines,2017-11-22 This paper reviews some of the important technical barriers that must be overcome to achieve truly  
efficient flying adaptive micro air vehicles MAVs As defined by the Defense Advanced Research Agency DARPA MAVs are  
vehicles with no length dimension greater than 6 inches These vehicles typically weigh less than 100 grams and some can fly  
for approximately 30 minutes Over the past decade significant progress has been made in developing these small scale  
mechanical flying machines However there is still much work to be done if these vehicles are to approach the efficiency and  
performance of biological fliers This paper reviews the status of current miniature mechanical flying machines and compares  
their performance with common biological flyers such as birds and small insects This comparison reveals that advances in  
aerodynamic efficiency lightweight and adaptive wing structures energy conversion propulsion systems and flight control are  
required to match or exceed the performance of nature's great flyers     **Future Energy Conferences and Symposia** ,1994  
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