

## BIOMORPHIC EXPLORERS

- Bio-morphic explorers constitute a new paradigm in mobile systems that capture key features and mobility attributes of biological systems, to enable new scientific endeavors.
- The general premise of biomorphic systems is to distill the principles offered by natural mechanisms to obtain the selected features/functional traits and capture the biomechatronic designs and minimalist operation principles from nature's success strategies.
- Bio-morphic explorers are a unique combination of versatile mobility controlled by adaptive, fault tolerant biomorphic algorithms to autonomously match with the changing ambient/terrain conditions.
- Significant scientific payoff at a low cost is realizable by using the potential of a large number of such cooperatively operating biomorphic systems.
- Biomorphic explorers can empower the human to obtain extended reach and sensory acquisition capability from locations otherwise hazardous/inaccessible