



전자전기컴퓨터학부 세미나안내



1. 제 목 : Cross-Layer Controller Self-Repair in an Insect-Scale Flapping-Wing Micro Air Vehicle

2. 발 표 자 : Prof. John Gallagher

3. 일 시 : 2012년 12월 14일(금) 14:30 ~ 15:30

4. 장 소 : IT-1호관 318호

5. 초청교수 : 김민영 교수

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7. 내용요약 :

Insect-scale, flapping-wing robots can be subjected to significant wing wear and damage in flight. We will present an improved Evolvable and Adaptive Hardware (EAH) wing oscillator capable of supporting adaptation intended to restore control precision in damaged or imperfectly manufactured insect-scale flapping-wing micro air vehicles. We will also present preliminary experimental results demonstrating that previously used basis function sets may have been too large and that significantly improved learning times may be achieved by judiciously culling the oscillator search space. The presentation will conclude with discussion of application of this adaptive, evolvable oscillator to full vehicle control as well as consideration of longer term goals and requirements.

※ 주최 : BK21 정보기술연구인력양성사업단, 전자전기컴퓨터학부

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