



*Advancing Technology
for Humanity*

certifies that

Tianxiang Bai

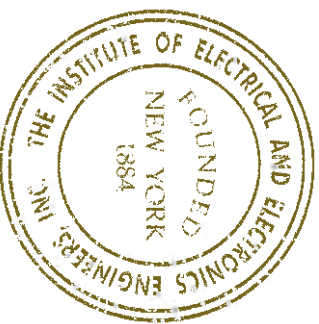
Has been awarded

Third Place in the 2012 Region 10 Postgraduate

Student Paper Competition for presentation

of his paper entitled

**Robust and Fast Visual Tracking Using Constrained
Sparse Coding and Dictionary Learning**



Deia Diamond

Secretary

[Signature]

President