

SE&T Colloquium Series-Fall 2013

Speaker	Dr. Hiroshi Takeuchi Department of Media and Information Systems, Management and Information Science Shikoku University, Japan
Title	<i>Variational Problems in Geomery: Harmonic Maps and Their Generalizations</i>
Abstract	This talk concerns with the calculus of variation related to geometry. Calculus of variations deals with maximizing or minimizing functionals. Functionals are expressed as definite integrals involving functions and their derivatives. We want to find the function on which the functionals are maxima or minima. I will present the some examples (geodesic, minimal surface, harmonic functions). After that, I will introduce harmonic maps between Riemannian manifolds and their generalizations (p-harmonic maps). I will also talk about some work related to these (p-Laplacian on Riemannian manifolds or graphs).
Date	Tuesday, October 8
Time	4:10-5:00pm
Place	Pioneer 240
	Refreshments will be served at 4:00pm.