

# Snakes: Active Contours

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<http://www.cab.u-szeged.hu/~kato/variational/>

# Introduction

- Proposed by
  - Michael Kass
  - Andrew Witkin
    - [http://www.ri.cmu.edu/people/witkin\\_andrew.html](http://www.ri.cmu.edu/people/witkin_andrew.html)
  - Demetri Terzopoulos
    - <http://mrl.nyu.edu/~dt/>

## **Snakes: Active Contour Models.**

*International Journal of Computer Vision,  
Vol. 1, pp 321-331, 1988.*

# What is a snake?

- An energy minimizing *spline* guided by external constraint forces and pulled by image forces toward features:
  - Edge detection
  - Subjective contours
  - Motion tracking
  - Stereo matching
  - .....

