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# MEGHÍVÓ

## Az ELTE Matematikai Intézetének soron következő, 2017. évi III. intézeti szemináriumára

**Előadó: Ian Dryden** (University of Nottingham)

**Helyszín: Déli épület – 2.502-es terem**

**Időpont: 2017. április 25, kedd,**

**16.00 órai kezdet**

**Előadás címe: Statistical shape analysis: faces, arteries and enzymes**

**Absztrakt:** Shape analysis is an important tool in the many disciplines where objects are analysed using geometrical features.

We describe an introduction to this fast-moving research area, where the statistical analysis of object data, rather than the usual numbers or vectors, is of wide interest. An important aspect of the analysis is to reduce the dimension to a small number key features while respecting the geometry of the manifold in which objects lie. Three case studies are given which exemplify the types of issues that are encountered:

- i) Describing face shape, and its relationship with age and gender,
- ii) Testing for shape difference in carotid arteries, where patients are at high or low risk of aneurysm
- iii) clustering the shapes of enzymes observed over time.

**Minden érdeklődőt szeretettel várunk!**