

Pajor challenges: 1) teature extraction: 1954 dependent -) hoise to bysthess -) ma/tiple features fea fare -) feature (on bis ton, Selections 2) Distance megsares: - Dus de fine Finilanty - multiple de férence patiens

3) Rethods of pattern recognition: - de terministic he thools - Probabilistic he thools - heural hettroras - 7622 /00°C 4) Special R Seg. CG /80 Cg/em: very large hun ber of classes dy hamis, time - vary in pathas

1-dimensional patterns

- Speech signals (isolated, spoken continuously)
- · Noises (e.g. of engines)
- Impact sounds (e.g. of machines)
- Measurement signals (derived from sensors)
- Medical signals (e.g. ECG, ...)
- Radar signals (e.g. flight traffic, submarine, speed control)
- Echoes (e.g. from telephone lines)

2-dimensional patterns

- · sampled or scanned image data
- videos
- · signs and characters
- handwriting strokes
 reder / x raw images
- radar / x-ray images
- sketches, maps, documents
- image sequences
- · surfaces, textures

3-dimensional patterns

- clinical applications
- 3D-scans of bodies or objects