

- 2) Examples of special purpose (interactive) instruments.
 - a) Metallographic analysis:
(Quantimet, Wild-Leitz system, Zeiss system).
 - b) Cell analysis:
(Perkon-Elmer Corning Electronics, Smith Kline Inc.) see: K. Preston Jr. Digital Picture Analysis in Cytology, Ref. A.
- 3) Examples of special purpose large scale systems:
 - a) Applications in high energy physics: (System at CERN (Geneva), University of Toronto).
See: R.L. McIlwain Jr., Image Processing in High Energy Physics, Ref. A.
 - b) Applications in remote sensing: (Image 100, CDC system, Bendix system).
 - c) More general applications: (Wild-Leitz TAS, Toshiba system).
 - d) JPL Chromosome Karyotyping System.
(K. R. Castleman)
- 4) Picture processing laboratory systems. These exist at every major research institution and university. (SRI, JPL, USC, MIT, Purdue, McGill, Lawrence Livermore, Electrotechnical Laboratory Tokyo, ...)

For a good illustration of how image processing problems are approached, see: C.A. Harlow, On Radiographic Image Analysis, ref. A.

- 5) Examples of autonomous systems in special application areas: See: W. A. Perkins: Multilevel Vision Recognition System, Ref. C. Industrial Applications: Ref. C.
- A) Topics in Applied Physics, vol. 11, Springer Verlag 1976, editor A. Rosenfeld.
- B) Scientific Findings from Mariner 6 & 7 Pictures of Mars, Journal of Geophysical Research, vol. 76, no.2, Jan. 10, 1971.
- C) The Third International Joint Conference on Pattern Recognition, Coronado, Nov. 8-11, 1976.