New Book

Verkerk, C. (Ed.): **Proceedings of the 1989 CERN School of Computing.** Held at Bad Herrenalb, Federal
Republic of Germany, August 20–September 2, 1989. Genève: CERN 1990.

These proceedings contain written versions of lectures delivered at the 1989 CERN School of Com-
puting and covering a variety of topics. Vector and parallel computing are the subjects of five papers:
experience with vector processors in HEP; scientific computing with transputers; applications of large
transputer arrays; neural networks and neurocomputers; and Amdahl's scaling law.

    Data-acquisition and event reconstruction methods were covered in two series of lectures re-
produced here: microprocessor-based data-acquisition systems for HERA experiments, and track and
vertex fitting. Two speakers treated applications of expert systems: artificial intelligence and expert
systems—applications in data acquisition, and application of diagnostic expert systems in the acceler-
ator domain. Other lecture courses covered past and present computing practice: 30 years of computing
at CERN, and information processing at the Aerospace Institute in the Federal Republic of Germany.
Other papers cover the contents of lectures on: HEPnet, where we are and where we are going; ciphering
algorithms; integrated circuit design for supercomputers; GaAs versus Si, theory and practice; and an
introduction to operating systems.