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Filling this gap, Introduction to Reversible Computing offers an expanded view of the field that includes the traditional energy-motivated hardware viewpoint as well as the emerging application-motivated software approach. Collecting scattered knowledge into one coherent account, the book provides a compendium of both classical and recently developed results on reversible computing.

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It explores up-and-coming theories, techniques, and tools for the application of reversible computing-the logical next step in the evolution of computing systems. The book covers theory, hardware and software aspects, fundamental limits, complexity analyses, practical algorithms, compilers, efficiency improvement techniques, and application areas.

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Kalyan S Perumalla | ORNL

Introduction to Reversible Computing: Motivation, Progress, and Challenges Michael P. Frank FAMU-FSU College of Engineering 2525 Pottsdamer St., Rm. 341 Tallahassee, FL 32310 00-1*-850-410-6463 mpf@eng.fsu.edu ABSTRACT Reversible computing is motivated by the von Neumann-Landauer (VNL)

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