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An abstract of a dissertation is a summary and extraction of research work and contributions. Included in an abstract should be description of research topic and research objective, brief introduction to methodology and research process, and summarization of conclusion and contributions of the research. An abstract should be characterized by independence and clarity and carry identical information with the dissertation. It should be such that the general idea and major contributions of the dissertation are conveyed without reading the dissertation.

An abstract should be concise and to the point. It is a misunderstanding to make an abstract an outline of the dissertation and words "the first chapter", "the second chapter" and the like should be avoided in the abstract.

Key words are terms used in a dissertation for indexing, reflecting core information of the dissertation. An abstract may contain a maximum of 5 key words, with semi-colons used in between to separate one another.

HPC (High Performance Computing) cluster Itanium SMP API PΙ MPI PBI MPBI PY PMDA-BDA (Activation Free Energy) ΔG (Transmission Coefficient) χ \boldsymbol{E} m cP Tυ lright lright lright

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