

# Physics From Fisher Information A Unification

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a unified derivation of physics from fisher information giving new insights into physical phenomena

the ibm project lilog presented in this volume represents a fundamental step beyond computer science as hitherto understood it was a successful project in every respect and has shed light on conjectured basic interrelations between knowledge processing and language definition knowledge processing is

strongly coupled to the natural language used and for applied knowledge processing an information base is needed which defines the semantic contents and interrelations of the language the lilog project was an implementation of an information base in the german language a set of tools was also developed to work with the system including structured man machine interfaces using natural language inference algorithms and a complete subsystem to acquire and store the required knowledge the lilog project started in 1985 and a functional system was demonstrated in 1991 the project involved approximately 200 of the scientists working in germany in the fields of computational linguistics natural language understanding systems and artificial intelligence the project proves that a cooperative project between universities and industry can produce useful results both in pure research and in implemented methods and tools

the challenge now facing ai is to produce systems exhibiting higher machine iq and using common sense reasoning rather than purely logical deduction soft computing is an attempt to meet this challenge allowing computers to handle imprecision uncertainty and partial truth it has evolved from the success of fuzzy control and other area of sub symbolic artificial intelligence such as neural nets this book presents different perspectives on how to combine soft computing s tolerance of imprecision with logic programming s power and semantics to provide a way forward for the implementation of intelligent knowledge based systems

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