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M.S. STUDENTS

Master of Science (By Research)

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Shejin T

S10003

Title of thesis: *Significance of Dictionary for Sparse Coding based Face Recognition*

A large variety of systems require authentication/validation of the person using it in order to confirm that a legitimate person is accessing the services provided. Examples of such systems are ATM, Computers, border control etc. Automatic recognition of human identity from his/her face images is called face recognition. Recently, a novel pattern recognition frame work, which relies on a concept called sparse representation, is applied to automatic face recognition. ‘Dictionary’, which represents the training face images, is a very crucial part of such a system. The significance of dictionary is overlooked in the literature



and related work with an assumption that a very large number of training data is available. This assumption may not be true in the real world scenario. Our research was on establishing the significance of dictionary in sparse coding based face recognition. As a result of the work, a new dictionary is proposed, analyzed and proved to outperform the existing dictionaries in terms of recognition rate in sparse coding based face recognition scenario. Further, a more general face recognition system is proposed in sparse coding framework, which can accommodate pose variations in the acquired images, with the help of the proposed dictionary.

Annual Progress Committee

Dr. Anil Kumar Sao (Guide)
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PH.D. STUDENTS

Doctor of Philosophy

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Priyanka Manchanda

D11048

Title of thesis: *Magnetic properties of multilayers and some bulk alloys: An ab-initio study*

Magnetic multilayers and thin-films consist of magnetic and non-magnetic materials and possess exotic scientific properties such as oscillatory interlayer exchange coupling and giant magneto-resistance. These magnetic multilayers are used in many applications such as ultrahigh density magnetic recording, spin valves and read head of hard disks. In this thesis, we have explored various magnetic thin films and multilayers to study the magnetization and magnetic anisotropy, that is, ease to change the magnetization direction. The main focus is to study the magnetic multilayer of 3d/4d and 3d/5d transition metal elements.

Such systems exhibit high magnetic moment and magnetic anisotropy and therefore are useful in many applications. Further, control of magnetic properties with the application of external electric field is studied. The significant change in magnetic moment and magnetic anisotropy energy is observed in the presence of external electric field. Such systems can be used in electric-field controlled magnetic data storage and switching devices.



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