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**Nabin Kumar Sahu\*** (nabin6582@gmail.com), Faculty Block-4, Room No. 4205, Dhirubhai Ambani Institute of Information and, Communication Technology, Gandhinagar, Gujarat, 382007, India. *Variational Inclusions and Algorithms in Uniformly Convex Smooth Banach Spaces.*

This presentation deals with a new system of nonlinear variational inclusion problems involving  $(A, \eta)$ -maximal relaxed monotone and relative  $(A, \eta)$ -maximal monotone mappings in 2-uniformly smooth Banach spaces. Using the generalized resolvent operator technique, the approximation solvability of the proposed problem is discussed. An iterative algorithm is constructed to approximate the solution of the problem. Convergence analysis of the proposed algorithm is investigated. Similar results are also explored for other system of variational inclusion problems involving relative  $(A, \eta)$ -maximal monotone mappings and  $(H, \eta)$ -maximal monotone mappings. (Received August 15, 2014)