

520-419 Theory of Iterative Algorithms Fall 2014

Topics

1. Solution set and relations between problems
2. Parameterized families of problems
3. Problem formulations
4. Algorithm descriptions and classification
5. Family of sequences
6. Miscellaneous considerations.
7. The Deterministic iterative (DI) schema and its characteristic set
8. Analysis and synthesis of the DI schema
9. The Liapunov matrix equation
10. Doubling scheme
11. Cluster point set
12. Periodic points
13. DI schema without stop rule
14. Topological concepts in E^n
15. Bounded and Cauchy sequences
16. Asymptotically regular sequences
17. Monotonic sequences xx

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