

지능시스템기초 강의노트

Slide 0

정 성 훈 (T. 760-4344)

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강의 자료

Slide 1

- 여러 관련 논문들
- Ref. book : Genetic Algorithms in Search, Optimization, and Machine Learning
- author: Goldberg
- publisher: Addison Wesley
- Ref. book : Genetic Algorithms + Data Structures = Evolution Programs
Second, Extended Edition
- author : Zbigniew Michalewicz
- publisher : Springer-Verlag

강의 자료 (Cont'd)

Slide 2

- Ref. book : Fuzzy Set Theory and Its Applications
- author : H.-J. Zimmermann
- publisher : Kluwer-Nijhoff
- Ref. book : Neural Networks Algorithms, Applications, and Programming Techniques
- author : James A. Freeman/David M. Skapura
- publisher : Addison-Wesley
- ☛ Reference web site : <http://itsys.hansung.ac.kr/>

강의 스케줄

Slide 3

- 1주 : Introduction to lecture and artificial intelligence; team organization for TP
- 2,3주 : Evolutionary Computation (GA, ES, EP)
- 4,5주 : Fuzzy Logic
- 6,7주 : Neural Network
- 8주 : midterm exam. and Term Project(TP) Proposal(including seminar papers)
- 9,10주 : EC Applications and TP Seminar
- 11,12주: FL Applications and TP Seminar
- 13,14,15주: NN Applications and TP Seminar
- 16주 : Term Project Final presentation

평가

Slide 4

- 출석 : 10
- H.W : 20
- 중간 : 30
- Term Project : 40
- Term Project 는 국내학술대회 논문 발표를 권장함

Homework (paper reading)

Slide 5

- 강의 2주초 요약 제출 :[1]
- 강의 3주초 요약 제출 :[2]
- 강의 4주초 요약 제출 :[3, 4]
- 강의 5주초 요약 제출 : Fuzzy Systems-A Tutorial
(<http://itsys.hansung.ac.kr/lec/isysbasic/html/fztutorial.html>)
- 강의 6주초 요약 제출 : A Survey of Neural Networks: Part I
(<http://itsys.hansung.ac.kr/lec/isysbasic/html/neural1.html>)

Related Papers

참고 문헌

Slide 6

- [1] D. Beasley, D. R. Bull, and R. R. Martin, "An Overview of Genetic Algorithms: Part 1, Fundamentals," Technical Report obtained from http://home.ifi.uio.no/~jimtoer/GA_Overview1.pdf.
- [2] D. B. Fogel, "An Introduction to Simulated Evolutionary Optimization," *IEEE Transactions on Neural Networks*, vol. 5, pp. 3–14, Jan. 1994.
- [3] M. Srinivas and L. M. Patnaik, "Genetic Algorithms: A Survey," *IEEE Computer Magazine*, pp. 17–26, June 1994.
- [4] J. L. R. Filho and P. C. Treleaven, "Genetic-Algorithm Programming Environments," *IEEE Computer Magazine*, pp. 28–43, June 1994.