

BIBLIOGRAPHY

1. Abbod, MF et al., (2005), “A survey of utilization of fuzzy technology in medicine and health care”, Fuzzy sets and systems 120, pp: 331-349, Proceedings of 10th Conference on Artificial Intelligence in Medicine, AIME, Abredeen, UK.
2. Ajith Abraham (2005), “Handbook of measuring system design”, John Wiley & Sons Ltd. ISBN: 0-470-02143-8.
3. Ali Adeli, Mehdi Neshat (2010), “A fuzzy expert system for heart disease diagnosis”, Proceedings of the International Multi conference of Engineers and computer scientists, vol 1, IMECS 2010, Hong Kong, ISBN – 978-988-17012-8-2.
4. Andrei Effimov, Lyubov Sckolova, Maxim Sckolov (2001), “Diabetes Mellitus and Coronary Heart Disease”, Diabetologia Croatia 30-4.
5. Angela Torres and Juan J. Nieto (2006), “Fuzzy Logic in Medicine and Bioinformatics”, Journal of Biomedicine and Biotechnology.
6. Axer H et al., (2003), “The application of fuzzy-based methods to central nerve fiber imaging”, Artificial Intelligence in Medicine, 29(3) ,225–239.
7. Barro S et al., (2002), “Fuzzy Logic in Medicine”, Heidelberg, Germany: Physica.
8. Batsomboon.P. et al., (1998), “System identification, Modeling & experimental evaluation of a fuzzy logic controller on a Force-Reflecting manual controller Prototype”, Journal of modeling & Simulation.
9. Belacel N. et al., (2004), “Multi criteria fuzzy classification procedure PROCFTN: methodology and medical application”, .Fuzzy Sets and Systems, 141(2), 203–217.
10. Berrón.C and De Abreu-García.J.A (2005)“Fuzzy Logic Control of a Cardio Pulmonary Bypass Rotary Blood Pump”, From Proceeding (485) Biomechanics, ACTA Press.
11. Boegl K. et al., (2004), “Knowledge acquisition in the fuzzy knowledge representation framework of a medical consultation system”, Artificial Intelligence in Medicine, 30(1):1–26.
12. Brehm.T, Rattan K.S (1994), “Hybrid Fuzzy Logic PID Controller”, IEEE Transaction on Fuzzy Systems, June, ISBN 0-7803-1896-X.

13. Costa A., et al. (1995), "Hardware Solutions for Fuzzy Control", Proceedings of the IEEE, Vol. 83, No 3, pp. 422-434, March.
14. Daisuke Takahashi, Yang Xiao, and Fei Hu (2008), "A Survey of Insulin-Dependent Diabetes—Part II: Control Methods", International Journal of Telemedicine and Applications, Article ID 739385, 14 pages.
15. Derrick.JL et al (1998), "The applications of a modified proportional – derivative Control algorithm to arterial pressure alarms in anesthesiology" Journal of clinical Monitoring and Computing, 14(1)41-47.
16. Dr. Claude Lenfant and Dr. Philip Gordon (1999), "Diabetes Mellitus: A major Risk factor for Cardiovascular Disease", National Institutes of health.
17. Dr. Deepak Sharma (2006), "Diabetes Mellitus and Homeopathy", Homeopathic Treatment, Cure & Medicines.
18. Fabrizio A. et al., (2002) "A Fuzzy Logic Approach to Decision Support in Medicine", SCI 2002, pp.1 ~5, July, Orlando, USA.
19. Fadzilah Siraj, and Rafikha Aliana A. Raof (2004), "Myocardial infarction diagnosis using fuzzy-expert approach", Journal of Information and Communication Technology (JICT), Vol. 3 No 2, December.
20. Faith-Michael E. Uzoka (2009), "Fuzzy Expert System for Cost Benefit Analysis of Enterprise Information Systems - A Framework", International Journal on Computer Science and Engineering, Volume 1(3), 254-262.
21. Ferdinando C. Sasso et al, (2006) "Cardiovascular risk factors and disease management in Type 2 Diabetic Patients with Diabetic Nephropathy", Diabetes Care, volume 29, number 3, March.
22. Garibaldi J.M, J. Tilbury, E.C. Ifeachor (2000), "The Development of a Fuzzy Expert System for the Analysis of Umbilical Cord Blood", Fuzzy Systems in Medicine, pp. 652-668, Springer-Verlag.
23. Gavin Fleming, Marna van der Merwe, Graeme McFerren (2007), "Fuzzy expert systems and GIS for cholera health risk prediction in southern Africa", Environmental Modelling & Software 22, 442-448.
24. George Bojadziev and Maria Bojadziev (1998), "Fuzzy sets, fuzzy logic, applications", first print, World Scientific Publishing Co Pvt Ltd, NJ 07661.

25. Ghafour Amouzad Mahdiraj, Azah Mohamed (2006), "A Fuzzy Expert System for Classification of Short Duration Voltage Disturbances", *Journal of Technology*.
26. Gholamresa Langari(1990), "A Framework for Analysis and Synthesis of Fuzzy Linguistic Control Systems", Ph.D. Thesis, University of California at Berkeley.
27. Harris M, Zimmet P. (1997) "Classification of diabetes mellitus and other categories of glucose intolerance", *International Textbook of Diabetes Mellitus - Second Edition*, Chichester, England: John Wiley and Sons Ltd, p9-23.
28. Hassanien AE. (2003), "Intelligent data analysis of breast cancer based on rough set theory", *International Journal on Artificial Intelligence Tools*, 12(4):465–479.
29. Hotmann.E (2006), "Decision support expert system for process selection", PhD thesis, Department of Computer Science and Mathematics, University of Paderborn.
30. Huizinga MM, Rothman RL. (2006), "Addressing the diabetes pandemic: A comprehensive approach", *Indian Journal of Medical Research*, 124: 481-4.
31. Hulley SB, (1980), "The associations between triglyceride and coronary heart disease", *New England Journal of Medicine*, 302: 1383–9.
32. Ibbini M.S, Masadeh.M.A, Bani Amer M.M (2003), "A Fuzzy Logic Control Technique for Blood Glucose Level in Diabetics", From Proceeding (387) *Biomechanics - 2003*, ACTA Press.
33. Im EO, Chee W., (2003), "Fuzzy logic and nursing" *Nursing Philosophy*, 4(1), 53–60.
34. Ismail SARITAS, Novruz ALLAHVERDI, Ibrahim Unal SERT (2003), "A Fuzzy Expert System Design for Diagnosis of Prostate Cancer", *International Conference on Computer Systems and Technologies*.
35. Jan Jantzen (1998), "Design of Fuzzy Controllers", Technical University of Denmark, Department of Automation, Technology Report No. 98-E 864.
36. Jean-Louis Chiasson et al (2003), "Diagnosis and treatment of diabetic ketoacidosis and the hyperglycemic hyperosmolar state", *Journal of Canadian Medical Association (CMAJ)*, APR. 1; 168 (7).
37. Jeppesen J et al., (1998), "Triglyceride concentration and ischemic heart disease: an eight-year follow-up in the Copenhagen Male Study", *Circulation* 97: 1029–36.

38. Jiann-shing shieh et al (2005), "Design a Hierarchical System for Monitoring Mobility Changes of the Elderly Using Intelligent analysis", *Biomedical Engineering - Applications, Basis & Communications*, Vol. 17 No. 4 August.
39. Jiming Chen et al., (2008), "Continuous Drug Infusion for Diabetes Therapy: A Closed Loop Control System", *EURASIP Journal on Wireless Communications and Networking*, Article Id 495185.
40. Jobe TH, Helgason CM. (1998), "The fuzzy cube and causal efficacy: representation of concomitant mechanisms in stroke", *Neural Networks*; 11(3):549–555.
41. Johnson M. et al., (2001), "Determining flexor-tendon repair techniques via soft Computing", *IEEE Engineering in Medicine and Biology Magazine*, 20(6):176–183.
42. Khanale, P.B. and R.P. Ambilwade, (2010), "A fuzzy inference system for diagnosis of hypothyroidism", *Journal of Artificial Intelligence*. 4: 45-54.
43. Kim M. Moulton, Aurel Cornell, Emil Petriu (2001), "A fuzzy error correction control system", *IEEE Transactions on Instrumentation and Measurement*, Volume 50, No. 5 , October.
44. King H, Aubert RE, Herman WH. (1998), "Global burden of diabetes, 1995-2025: Prevalence, numerical estimates, and projections", *Diabetes Care.*, 21: 1414-1431.
45. Klaus-Peter Adlassnig (1984), "Fuzzy set theory in medicine", *International Institute for Applied Systems Analysis*.
46. Kuldip S. Rattan et al., (1989), "Rule Based Fuzzy Control of a Single-Link Flexible Manipulator in the Presence of Joint Friction and Load Changes," *American Control Conference*, Pittsburgh, PA, June.
47. Kurzynski M.W (2003), "Fuzzy Inference System for multistage Pattern Recognition – Application to Medical Diagnosis", *Artificial Intelligence and Applications*, ACTA Press.
48. Laleh Kardar et al.,(2008), "Application of Fuzzy Logic Controller for Intensive Insulin Therapy in Type 1 Diabetic Mellitus Patients by Subcutaneous Route", *Wseas Transactions On Systems And Control*, Issue 9, Volume 3, September , ISSN: 1991-8763, pp712-721.
49. Lascio LD et al., (2002), "A fuzzy based methodology for the analysis of diabetic neuropathy", *Fuzzy Sets and Systems*. 129(2):203–228.

50. Li. Y and C Lau (1989), "Development of Fuzzy Algorithms for Servo Systems," IEEE Control Systems Magazine, pp 65-71, April.
51. Linkens D.A, Abbod M.F, Mahfonf. M (1998), "An initial survey of Fuzzy Logic monitoring and control utilization in medicine", Dept of automatic control & systems engineering, University of Sheffield, UK.
52. Lt Gen SR Mehta et al., (2009), "Diabetes Mellitus in India: The Modern Scourge", MJAFI, Volume 65, No 1.
53. Mahfouf M, Abbod MF, Linkens DA.(2001), "A survey of fuzzy logic monitoring and control utilisation in medicine", Artificial Intelligence in Medicine. 21(1-3):27-42.
54. Mamdani E. H, (1974) "Application of Fuzzy Algorithms for Control of Simple Dynamic Plant," Proceedings of IEEE 121 Vol. 12 pp. 1585-1588.
55. Marjukka Hyvarinen et al (2009), "The impact of diabetes on coronary heart disease differs from that on ischemic stroke with regard to the gender", Cardiovascular Diabetology.
56. Massad E, Ortega NR. et al., (2003), "Fuzzy epidemics", Artificial Intelligence in Medicine, 29(3), 241-259.
57. Matt GE.et al., (2003), "Improving self-reports of drug-use: numeric estimates as fuzzy sets", Addiction 98(9), 1239-1247.
58. Mehdi.Neshat, Mehdi.Yaghobi (2009),"Designing a Fuzzy Expert System of Diagnosing the Hepatitis B Intensity Rate and Comparing it with Adaptive Neural Network Fuzzy Systems", Proceedings of the World Congress on Engineering and Computer Science, Volume II, ECS 2009, October 20-22, San Francisco, USA.
59. Michelle LaBrunda, Andrew LaBrunda, (2008), "Fuzzy logic in medicine", Journal of Information Technology Research, volume 1, Issue 1.
60. Mir Anamul Hasan et al., (2010), "Human Disease Diagnosis Using a Fuzzy Expert System", Journal of Computing, Vol. 2, No. 6, June, NY, USA, ISSN 2151-9617.
61. Mohan. V et al., (2007), "Epidemiology of type 2 diabetes: Indian scenario", Indian Journal of Medical Research 125, March, pp 217-230.
62. Mohanram. A et al., (2004), "Anemia and end stage renal disease in patients with type 2 diabetes and Nephropathy", Kidney Int66: 1131-1138.

63. Mordeson JN. et al., (2000), "Fuzzy Mathematics in Medicine", Heidelberg, Germany: Physica.
64. Najjaran. H, R. Sadiq, B. Rajani (2006), "Fuzzy expert system to assess corrosion of cast/ductile iron pipes from backfill properties," *Journal of Computer-Aided Civil and Infrastructure Engineering*, 21:1, pp. 67-77.
65. Neshat. M, Yaghobi M, Naghibi M.B, Esmaelzadeh A(2008), "A Fuzzy Expert System design for diagnosing the liver disorders", *International symposium on Knowledge Acquisition and Modeling(KAM)*, December, 252-256.
66. Novruz Allahverdi, Serhat Torun, Ismail Saritas (2007), "Design of a Fuzzy expert system for determination of coronary heart disease risk", *International Conference on Computer Science and Technologies*.
67. Oshita S. et al., (1994), "Hypertension control during anesthesia. Fuzzy logic regulation of nicardipine infusion", *IEEE Engineering in Medicine and Biology Magazine*, 13(5):667–670.
68. P. K. Dash et al., (2000), "Classification of Power System Disturbances using a fuzzy expert system and a Fourier linear combiner", *IEEE. Transaction on Power Delivery*, Vol. 15, No.2, April, pp 472-477.
69. Papageorgiou EI. et al., (2003), "An integrated two-level hierarchical system for decision making in radiation therapy based on fuzzy cognitive maps", *IEEE Transactions on Biomedical Engineering*, 50(12):1326–1339.
70. Patyra M. (1992), "Lecture Notes in Fuzzy Logic", *CAST, EPFL*, June.
71. Pereira JCR et al., (2002), "Defuzzification in Medical Diagnosis", *Advances in logic artificial intelligence and robotics*, IOS Press, Pages: 202-207.
72. R. Radha and S.P. Rajagopalan (2007), "Fuzzy Logic Approach for Diagnosis of Diabetics", *Information Technology Journal*, Volume 6, Issue 1, pp 96-102.
73. Rahim F, Deshpande A, Hosseini A (2007), "Fuzzy Expert System for Fluid Management in General Anaesthesia", *Journal of Clinical and Diagnostic Research*, August; (4)256-267.
74. Ramachandran A (2005), "Epidemiology of diabetes in India—three decades of research". *Journal of Association Physicians India*, 53: 34-38.

75. Ramachandran. A, C. Snehalatha and Vijay Viswanathan (2002), "Burden of type 2 diabetes and its complications – The Indian scenario", *Current Science* vol 83, No 12, December.
76. Rossing K. Christensen et al., (2004), "Progression of Diabetic Nephropathy in type 2 diabetic patients", *Kidney Int*66: 1596-1605.
77. Rudolf Seising, Christian Schuh, Klaus-Peter Adlassnig (1993),"Medical knowledge, fuzzy sets and expert systems", *International Journal Biomedical computing*, 33, pp 267-276.
78. Sabharwal. D and K. Rattan (1992), "Design of a Rule Based Fuzzy Controller for the Pitch Axis of an Unmanned Research Vehicle," *NAECON Proceedings*, Dayton.
79. Saikat Maity, Jaya Sil (2009), "Color Image Segmentation using Type-2 Fuzzy Sets", *International Journal of Computer and Electrical Engineering*, Vol. 1, No. 3, August, 1793-8163.
80. Saniya Siraj Godil (2011), "Fuzzy Logic:: A simple solution for complexities in Neurosciences?", *Surgical Neurology International Open access journal*, February.
81. Sarah Wild et al., (2004), "Global Prevalence of Diabetes - Estimates for the Year 2000 and Projections for 2030", *Diabetes Care* 27, pp 1047-1053.
82. Sarika Arora, MD, (2010), "Renal function in diabetic nephropathy", *World Journal of Diabetes*, May 2010 Volume 1 Issue 2.
83. Satish Kumar (1999), "Uncertainty in the Real World", *Fuzzy Sets, Resonance*.
84. Schneider J et al., (2003), "Fuzzy logic-based tumor marker profiles including a new marker tumor M2-PK improved sensitivity to the detection of progression in lung cancer patients", *Anticancer Research*, 23(2A), 899–906.
85. Seker H et al., (2003), "A fuzzy logic based-method for prognostic decision making in breast and prostate cancers", *IEEE Transactions on Information Technology in Biomedicine*, 7(2):114–122.
86. Shobhana. R. et al., (2000), "Expenditure on health care incurred by diabetic subjects in a developing country – a study from southern India", *Diabetes Research and Clinical Practice*, 48(1), pp.37-42.
87. Sicree R, Shaw J, Zimmet P. (2006), "Diabetes and impaired glucose tolerance", *Diabetes Atlas*, International Diabetes Federation. 3rd ed. Belgium, pp. 15-103.

88. Sproule BA et al., (1997), "Fuzzy logic pharmacokinetic modeling: application to lithium concentration prediction", *Clinical Pharmacology and Therapeutic* 62(1):29-40.
89. Stanley RJ et al., (2003), "A fuzzy based histogram analysis technique for skin lesion discrimination in dermatology clinical images", *Computerized Medical Imaging and Graphics*, 27(5), 387–396.
90. Steimann F. (2001) "On the use and usefulness of fuzzy sets in medical AI", *Artificial Intelligence in Medicine*, 21(1–3):131–137.
91. Stip E. et al., (2001), "Accuracy of the Pepin method to determine appropriate lithium dosages in healthy volunteers", *Journal of Psychiatry & Neuroscience*, 26(4):330–335.
92. Sugeno M. et al (1985), "An experimental study on fuzzy parking control using a model car", *Industrial Applications of Fuzzy Control*, pp. 125-138.
93. Sundareswaran. K, (2005), "Fuzzy Logic Systems", First Print, Jaico Publishing House, Mumbai.
94. Szczepaniak PS. et al., (2000), "Fuzzy Systems in Medicine". Heidelberg, Germany: Physica.
95. Tetsuhiko Yoshimura and Kouichi Kanzaki (1996), "Fuzzy Expert System for laying out forest roads based on the risk assessment", *Seminar on Environmentally Sound Forest Roads and Wood Transport*, Sinaia (Romania), 17-22, June.
96. Vasudevan A Raghavan (2011), "Diabetic Ketoacidosis", *Cardio metabolic and Lipid (CAMEL) Clinic Services*, Division of Endocrinology, Scott and White Hospital, Texas A&M Health Science Center College of Medicine.
97. Veronica Verleine Horbe Antunes et al, (2008), "Diagnostic Accuracy of the protein/creatinine ratio in urine samples to estimate 24h proteinuria in patients with primary glomerulopathies: a longitudinal study", *Nephrology Dialysis Transplantation*, 23:2242-2246.
98. Viswanathan. V(2004), "Prevention of diabetic nephropathy: A dialectologist's perspective", *Indian Journal of Nephrology*.
99. Wang Y. and Elhag T. M. S. (2006), "On the normalization of interval and fuzzy weights", *Fuzzy sets and systems*, 157: 2456-2471.

100. Wild S et al., (2004), "Global prevalence of diabetes: Estimates for the year 2000, and projections for 2030", *Diabetes Care* 27 : 1047-53.
101. Yufei Yuan et al., (2001) "An inter-net based Fuzzy Logic expert system for organ transplantation assignment", *International Journal of Healthcare Technology and Management (IJHTM)*, Vol 3, NO 5/6.
102. Zadeh L.A (1973), "Outline of a New Approach to the Analysis of Complex Systems and Decision Processes", *IEEE Transactions on Systems, Man, Cybernetics*, Vol 3, pp. 28-44.
103. Zahlmann G, et al. (2000), "Hybrid fuzzy image processing for situation assessment", *IEEE Engineering in Medicine and Biology Magazine*, 19(1):76–83.
104. Zheng (1992), "A Practical Guide to Tune of Proportional and Integral (PI) Like Fuzzy Controllers," *IEEE*.
105. Zhu QM et al., (2001), "A fuzzy controller to overcome EA accommodation", *Proceedings of IFAC conference on new technologies for computer control*, Hong Kong, China. 493–498.
106. Zouridakis G. et al., (1997), "A fuzzy clustering approach to study the auditory P50 component in schizophrenia", *Psychiatry Research*, 1997, 69(2-3), 169–181.

PAPERS PUBLISHED

- E. Rama Devi , Dr. N. Nagaveni, "Design Methodology of a Fuzzy Rule Base System to predict the impact of Diabetes Mellitus on Cardio vascular system", *Journal of Egyptian Computer Society (ECS)*, Volume 33, Number 2, September 2009, ISSN: 1110-2586.
- E. Rama Devi , Dr. N. Nagaveni, "Design Methodology of a Fuzzy Knowledge Base System to predict the risk of Diabetic Nephropathy", *International Journal of Computer Science Issues*, Volume 7, Number 5, September 2010, ISSN: 1694-0814.