

Authored Books

- 1 Sajja, P.S. *“Illustrated computational intelligence: Examples and applications”*, Springer International Publishing, Singapore (Nov’20)
- 2 Sajja, P.S. *“Essence of systems analysis and design: A workbook approach”*, Springer International Publishing, Singapore (Aug’17)
- 3 Akerkar R.A. and Sajja, P.S. *“Intelligent techniques for data science”*, Springer International Publishing, Switzerland (Oct’16)
- 4 Sajja, P.S. and Virparia, P.V. *“Objective computer science”*, University Granth Nirman Board, Gandhinagar, Gujarat, India (Jul’15)
- 5 Shah, S.M., Sajja, P.S. and Patel, K.P. *“Computer studies – Standard 10”*, Gujarat State Board of School Textbooks, Gandhinagar, Gujarat, India (Jan’14)
- 6 Shah, S.M., Sajja, P.S. and Smart, J.V. *“Computer studies – Standard 9”*, Gujarat State Board of School Textbooks, Gandhinagar, Gujarat, India (Feb’13)
- 7 Sajja, P.S. and Akerkar, R.A. *“Intelligent technologies for web applications”*, CRC Press (Taylor & Francis Group), Boca Raton, FL, USA (May’12)
- 8 Akerkar R.A. and Sajja, P.S. *“Knowledge-based systems”*, Jones & Bartlett Publishers, Sudbury, MA, USA (Aug’09)

Edited Books

- 9 Bhatt, C., Sajja, P.S. and Liyanage, S. *“Utilizing educational data mining techniques for improved learning: Emerging research and opportunities”*, IGI Global Book Publishing, Hershey, PA, USA (Jun’19)
- 10 Sajja, P.S. and Akerkar, R.A. *“Advanced knowledge-based systems: Models, applications and research trends”*, TMRF, Kolhapur, India (Jan’10)

Book Chapters

- 11 Sajja, P.S. and Akerkar, R.A. *“Fuzzy ontology for requirements determination and documentation during software development”*, in Information Resources Management Association (Ed.), *Research Anthology on Agile Software, Software Development, and Testing*, Chapter 37, pp.726-745, IGI Global Book Publishing, Hershey, PA, USA (Nov’21)
- 12 Sajja, P.S. *“Application of fuzzy convolutional neural network for disease diagnosis: A case of Covid-19 diagnosis through CT scanned lung images”*, in Mayuri Mehta, Philippe Fournier-Viger, Maulika Patel and Jerry Chun-Wei Lin (Eds.), *Tracking and Preventing Diseases with Artificial Intelligence*, Chapter 8, pp.177-199, Springer International Publishing, Cham, Switzerland (Jul’21)
- 13 Sajja, P.S. and Akerkar, R.A. *“Fuzzy ontology for requirements determination and documentation during software development”*, in Vishnu Pendyala (Ed.), *Tools and Techniques for Software Development in Large Organizations: Emerging Research and Opportunities*, Chapter 2, pp.21-24, IGI Global Book Publishing, Hershey, PA, USA (Dec’19)

- 14 Sajja, P.S. and Akerkar, R.A. “Deep learning for big data analytics”, in Hema Banati, Shikha Mehta and Parmeet Kaur (Eds.), *Nature-Inspired Algorithms for Big Data Frameworks*, Chapter 1, pp.1-21, IGI Global Book Publishing, Hershey, PA, USA (Sep’18)
- 15 Sajja, P.S. and Trivedi, J.A. “Personalized neuro-fuzzy expert system for determination of nutrient requirements”, in Chintan Bhatt & S.K. Peddoju (Eds.), *Cloud Computing Systems and Applications in Healthcare*, Chapter 11, pp.218-244, IGI Global Book Publishing, Hershey, PA, USA (Oct’16)
- 16 Sajja, P.S. “Application of fuzzy user's profile for mining reusable e-learning repositories on web through lightweight mobile agent”, in Li Yan (Ed.), *Handbook of Research on Innovative Database Query Processing Techniques*, Chapter 19, pp.500-521, IGI Global Book Publishing, Hershey, PA, USA (Sep’15)
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- 20 Mankad, K.B. and Sajja, P.S. “Measuring human intelligence by applying soft computing techniques: A genetic fuzzy approach”, in Naidenova XA & Shagalov VL (Eds.), *Diagnostic Test Approaches to Machine Learning and Commonsense Reasoning Systems*, Chapter 6, pp.130-155, IGI Global Book Publishing, Hershey, PA, USA (Jul’12)
- 21 Sajja, P.S. “Personalized content representation through hybridization of mobile agent and interface agent”, in Susmit Bagchi (Ed.), *Ubiquitous Multimedia and Mobile Agents: Models and Implementations*, Chapter 4, pp.85-112, IGI Global Book Publishing, Hershey, PA, USA (Aug’11)
- 22 Sajja, P.S. “Multiagent knowledge-based system accessing distributed resources on knowledge grid”, in Senthil Kumar AV (Ed.), *Knowledge Discovery Practices and Emerging Applications of Data Mining: Trends and New Domains*, Chapter 12, pp.244-265, IGI Global Book Publishing, Hershey, PA, USA (Aug’10)
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- 25 Sajja, P.S. “**Multi-tier knowledge-based system accessing learning object repository using fuzzy XML**”, in Harrison Yang & Steve Yuen (Eds.), *Handbook of Research on Practices and Outcomes in E-Learning: Issues and Trends*, Chapter 28, pp.471-492, IGI Global Book Publishing, Hershey, PA, USA (Oct’09)

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- 27 Mredula, K.P., Jonita, R. and Sajja, P.S. “**AI based tools in mathematics education: A systematic review of characteristics, applications, and evaluation methods**”, *International Research Journal on Advanced Engineering and Management*, vol.2, pp.1958-1967 (Jul’24)
- 28 Jonita, R., Mredula, K.P. and Sajja, P.S. “**Traces of augmented reality in learning mathematics: A survey**”, *International Research Journal on Advanced Engineering and Management*, vol.2, pp.2388-2397 (Jul’24)
- 29 Vaishnav, Z.B. and Sajja, P.S. “**A comprehensive review of word sense disambiguation research in few Indian languages: Implications for educational tools**”, *Educational Administration: Theory and Practice*, vol.30, no.5, pp.21-26 (May’24)

- 30 Patel, H.R., Patel, M. and Sajja, P.S. “Literature review on multiple face recognition based automated attendance system using machine learning techniques”, *Indian Journal of Natural Sciences*, vol.14, no.82, pp.270-276 (Feb’24)
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- 35 Sajja, P.S. and Mishra, R. “Effective selection of entities from heterogeneous and large resources using a cooperative neuro-fuzzy system: A case of fast moving consumer goods”, *International Journal of Systems Dynamics Applications*, vol.11, no.1, pp.1-17 (Sep’22)
- 36 Shah, G.B., Sajja, P.S. and Desai, A.A. “Speech synthesizer for Gujarati number system”, *Gradiva Review Journal*, vol.8, no.3, pp.506-512 (Mar’22)

- 37 Sajja, P.S. “Hybrid genetic fuzzy system for modeling consumer behavior”, *International Journal of Business Intelligence Research*, vol.13, no.1, pp.1-15 (Jan’22)
- 38 Sajja, P.S. “Hybrid computational intelligence system for fashion design: A case of genetic-fuzzy systems with interactive fitness evaluation”, *International Journal of System Dynamics Applications*, vol.11, no.6, 1-16 (Sep’21)
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- 58 Vaidya, N.M. and Sajja, P.S. “Learner ontological model for intelligent virtual collaborative learning environment”, *International Journal of Computational Engineering Research*, vol.6, no.2, pp.20-23 (Feb’16)

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- 209 Trivedi, J.A. and Sajja, P.S. “Interactive development framework for soft computing systems”, *Gujarat State Level Conference on Information Technology: In Next Decade*, pp.48, Vallabh Vidyanagar (Jan’12)
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- 230 Sajja, P.S. “Internet: A modern technology for rural development”, *National Seminar on Innovations in Information Systems for Rural Development*, Vallabh Vidyanagar (Feb’03)
- 231 Sajja, P.S. “Computer applications in university environment”, *Orientation course organised by Gujarat Academic Staff College*, Vallabh Vidyanagar (Jun’01)
- 232 Sajja, P.S. and Chourasia, N.N. “e-Learning and education”, *National Seminar on Computer Applications*, Indore (May’01)
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- 234 Sajja, P.S. “A multi-layer knowledge-based adviser for small-scale and cottage industries”, *88th Indian Science Congress*, New Delhi (Jan’01)
- 235 Sajja, P.S. “Knowledge-based systems: Future perspectives”, *National Seminar on IT in the 21st Century*, Vallabh Vidyanagar (Jan’00)
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