

**A Selected list of Books, Journals and other  
Resources on**

- **Artificial Intelligence**
- **Expert Systems**
- **Knowledge Based Systems**
- **Neural Networks**
- **Robotics**

**Compiled  
by  
Resource Centre  
DAICT**

## A Selected List of Books, Journals, CDs, Conferences, Associations, Newsgroups and Internet Resources on Artificial Intelligence

### Books on Artificial Intelligence (Available in the Resource Centre)

1	Akerkar, Rajendra, ed. Artificial intelligence : future trends New Delhi. Allied Publishers, 2002 006. 3 AKE 005243
2	Bender, Edward A. Mathematical methods in artificial intelligence California. IEEE Computer Society, 2000 006.3015 BEN 015063
3	Bratko, Ivan Prolog. [Programming for Artificial Intelligence] Delhi. Pearson education, 2001 006.3 BRA 003423
4	Cartwright, Hugh Using artificial intelligence in chemistry and biology : a practical guide Boca Raton. CRC Press, 2008 540.28563 CAR 019922
5	Cawsey, Alison Essence of artificial intelligence Harlow. Prentice Hall, 1998 006. 3 CAW 017629
6	Charniak, Eugene Introduction to artificial intelligence New Delhi. Addison-Wesley, 2000 006.3 CHA 000164
7	Cohen, Paul R. Empirical methods for artificial intelligence New Delhi. Prentice Hall of India, 2004. 006.3072 COH 014659
8	Coppin, Ben Artificial intelligence illuminated Boston. Jones and Bartlett, 2004 006.3. COP 013222
9	Corchado, Juan Manuel ... [et al.] (eds.) International symposium on distributed computing and artificial intelligence 2008 (DCAI 2008). Berlin. Springer, 2009. 005.8 COR 021746
10	Dojat, Michel, ed., Keravnou, Elpida, ed. & Barahona, Pedro, ed. Artificial intelligence in medicine : 9 <sup>th</sup> conference in Europe, AIME 2003, Protaras, Cyprus, October 18-22, 2003 : proceedings New York. Springer-Verlag, 2003 006.3 DOJ 008435

11	Dubitzky, Werner, ed. & Azuaje, Francisco, ed. Artificial intelligence methods and tools for systems biology Dordrecht. Springer, 2004 570.11 DUB 015230
12	Ferreira, Candida Gene expression programming : mathematical modeling by an artificial intelligence, 2 <sup>nd</sup> ed. Berlin. Springer, 2006 572.865 FER 015874
13	Galushkin, Alexander I. Neural networks theory Berlin. Springer, 2007 006.33 GAL 017301
14	Holland, John H. Adaptation in natural and artificial systems: An introductory analysis with applications to biology control, and artificial intelligence Cambridge. The MIT Press, 1992 570 HOL 007972
15	Hudson, Donna L. & Cohen, Maurice E. Neural networks and artificial intelligence for biomedical engineering New Delhi. Prentice Hall of India, 2003 610.28563 HUD 013630
16	Hudson, Donna L. & Cohen, Maurice E. Neural networks and artificial intelligence for biomedical engineering New Delhi: Prentice Hall of India, 2001. 006.32 H886N 005157
17	Jones, M. Tim Artificial intelligence application programming New Delhi. Wiley-Dreamtech India, 2003 006.3 JON 012380
18	Jones, M. Tim Artificial intelligence : a systems approach New Delhi. Infinity Science Press LLC, 2008 006. 3 JON 021224
19	Korb, Kevin B. & Nicholson, Ann E. Bayesian artificial intelligence Boca Raton. Chapman & Hall/CRC, 2004 519.542 KOR 015033
20	Koutsojannis, Constantinos, ed. & Sirmakessis, Spiros, ed. Tools and applications with artificial intelligence Berlin. Springer, 2009 006. 3 KOU 021753
21	Lee, R. Y., ed. Software engineering, artificial intelligence, networking and parallel/distributed computing Berlin. Springer, 2008 004 LEE 021141

22	Li, Deyi & Du, Yi Artificial intelligence with uncertainty Boca Raton. Chapman & Hall/CRC, 2008 006. 3 LID 019200
23	Luger, George F. Artificial intelligence (Fourth edition ) Delhi . Pearson Education Asia , 2002 006.3 LUG 003757-62, 003325-29-30- 003331
24	McCorduck, Pamela Machines who think: a personal inquiry into the history and prospects of artificial intelligence, 2 <sup>nd</sup> ed. Massachusetts. A K Peters, 2004 006.309 MCC 011154
25	Minsky, Marvin Emotion machine : commonsense thinking, artificial intelligence, and the future of the human mind New York. Simon & Schuster, 2006 153 MIN 015138
26	Mulhall, Douglas Our molecular future: how nanotechnology, robotics, genetics and artificial intelligence will transform our world New York: Prometheus Books, 2002 303.483 MUL 010561
27	Munakata, Toshinori Fundamentals of the new artificial intelligence : neural, evolutionary, fuzzy and more, 2 <sup>nd</sup> ed.. [Neural, evolutionary, fuzzy and more] London. Springer, 2008 006. 3 MUN 020139
28	Newborn, Monty Deep blue: an artificial intelligence milestone New York: Springer-Verlag, 2003 794.172 NEW 009201
29	Nilsson, Nils J. Artificial intelligence: a new synthesis New Delhi: Morgan Kaufmann, 2003 006.3 NIL 009367
30	Padhy, N. P. Artificial intelligence and intelligent systems New Delhi. Oxford University Press, 2005 006.33 PAD 019249
31	Patterson, Dan W. Introduction to artificial intelligence and expert systems New Delhi. Prentice Hall of India, 2005 006.3. PAT 013634
32	Patterson, Dan W. Introduction to artificial intelligence and expert systems New Delhi: Prentice Hall of India, 2003 006.3 PAT 005615, 008131-008134

33	Pejas, Jerzy, ed. & Piegat, Andrzej, ed. Enhanced methods in computer security, biometric and artificial intelligence systems New York. Kluwer Academic Publishers, 2005 005.822 PEJ 014653
34	Rich, Elaine, Knight, Kevin. & Nair, Shivasankar B. Artificial intelligence, 3 <sup>rd</sup> ed. New Delhi. Tata MaGraw-hill, 2008 006. 3 RIC 021546
35	Ripley, B. D. Pattern recognition and neural networks Cambridge. Cambridge University Press, 2002 006.4 RIP 005986
36	Roszak, Theodore Cult of information : a neo-Luddite treatise on high tech, artificial intelligence, and the true art of thinking Berkeley. University of California Press, 1994 004 ROS 015610
37	Rowe, Neil C. Artificial intelligence through Prolog New Jersey. Prentice Hall, 1988 005.133 ROW 018609
38	Russell, Stuart & Norvig, Peter Artificial intelligence: a modern approach, 2 <sup>nd</sup> Ed. Delhi: Pearson Education., 2003 006.3 RUS 12586-012588, 010495
39	Russell, Stuart J. & Norvig, Peter Artificial intelligence: a modern approach Delhi: Pearson Education Asia, 2001 006.3 RUS 003287-003292
40	Sasikumar, M., ed., Vakil, Rahul D., ed. & Kavitha M., ed. Artificial intelligence emerging trends & applications : proceedings of the Fifth International Conference on Knowledge Based Computer Systems : KBCS-2004. [KBCS-2004: International Conference on Knowledge Based Computer Systems] New Delhi. Allied Publishers, 2004 006. 3 SAS 020009
41	Tadeusiewicz, Ryszard & Ogiela, Marek R. Medical image understanding technology: artificial intelligence and soft-computing for image understanding Berlin: Springer-Verlag, 2004 616.0754 TAD 010186
42	Tracy, Kim W. & Bouthoorn, Peter Object-oriented artificial intelligence using C++ New York: Computer science press, 1997 006.3 TRA 005877-005878
43	Tveter, Donald R. Pattern recognition basis of artificial intelligence Los Alamitos. IEEE Computer Society, 1998 006. 3 TVE, 019113

44	Vlassis, Nikos Concise introduction to multiagent systems and distributed artificial intelligence San Rafael. Morgan & Claypool Publishers, 2007 006. 3 VLA 020878
45	Weiss, Gerhard ( Ed.) Multiagent Systems London . The MIT Press , 1999 006.3 WEI 004619
46	Winston, Patrick Henry Artificial Intelligence. (Third edition) Delhi. Pearson Education Asia, 2001 006.3 WIN 002234

## II Books on Expert Systems (Available in the Resource Centre)

1	Ermine, Jean-Louis Expert systems: theory and practice New Delhi: Prentice Hall of India, 2001 006.33 ERM 006163-006165, 012835
2	Giarratano, Joseph C. & Riley, Gary D. Expert systems : principles and programming, 4th ed.. () Australia. Thomson Course Technology, 2005 006.33 GIA 015836
3	Jackson, Peter Introduction to Expert Systems. 3rd Ed. Delhi: Pearson Education Asia, 2001 006.33 JAC 002235, 004395, 008376-008377
4	Patterson, Dan W. (See also in Books on Artificial Intelligence) Introduction to artificial intelligence and expert systems New Delhi: Prentice Hall of India, 2001 006.3 PAT 001016
5	Patterson, Dan W. Introduction to artificial intelligence and expert systems New Delhi: Prentice Hall of India, 2003 006.3 PAT 005615, 008131-008134
6	Waterman, D. Guide to expert systems England: Addison-Wesley, 1999 006.33 WAT 003763-003763, 003293-003295, 001284
7	Wiig, Karl Expert systems New Delhi: Oxford and IBH Pub., 1990 658.409 WII 003072

## IV Books on Knowledge Based Systems (Available in the Resource Centre)

1	Buford, John F. Koegel Multimedia systems New York: Addison-Wesley , 1994 006.7 BUF 000727
2	Cloete, Jan & Zurada, Jacek M. Knowledge-based neurocomputing Hyderabad: University Press , 2002 006.32 CLO 004160
3	Gini, Fulvio & Rangaswamy, Muralidhar Knowledge based radar detection, tracking, and classification. Hoboken. Wiley-Interscience, 2008 621.38928 GIN 021046
4	Niederee, Claudia, ed. From integrated publication and information systems to information and knowledge environments : essays dedicated to Erich J. N New York: Springer, 2005 004 HEM 012223
5	Maier, Ronald Knowledge management systems: information and communication technologies for knowledge management. 2 <sup>nd</sup> Ed. Berlin: Springer-verlag, 2004. 005.74 MAI 010052
6	Ramani, S. Knowledge based computer systems New Delhi: Narosa Publishing House, 1990 004 R165K 004067
7	Vermesan, Anca, Ed. & Coenen, Frans, Ed. Validation and verification of knowledge based systems: theory, tools and practice Boston: Kluwer Academic Publishers, 1999 006.33 VER 010685
8	Wickramasinghe, Nilmini, Gupta, Jatinder N. D. & Sharma, Sushil K. Creating knowledge based healthcare organizations Hershey. Idea Group Pub., 2005 362.1068 WIC 013343
9	Wimmer, Maria A., Ed. Knowledge management in electronic government: 4th IFIP international working conference, KMGov 2003 Rhodes, Greece, May 26-28, 2003 proceedings Berlin: Springer-Verlag, 2003 006.3 WIM 007428

## IV Books on Lecture Notes in Artificial Intelligence (Available in the Resource Centre)

	<p>Baik, Doo-Kwon, Ed.  Systems modeling and simulation: theory and applications: third Asian simulation conference, AsiaSim 2004, Jeju Island, Korea, October 4-6, 2004; revised selected papers. (LNAI 3398) New York: Springer, 2005  006.3 BAI  012219</p>
2	<p>Basin, David, Ed. &amp; Rusinowitch, Michael, Ed.  Automated reasoning: second international joint conference, IJCAR 2004, Cork, Ireland, July 4-8, 2004; proceedings. (LNAI 3097)  New York: Springer-Verlag, 2004  006.3 BAS  011935</p>
3	<p>Beetz, Michael  Plan-based control of robotic agents: improving the capabilities of autonomous robots. (LNAI 2554)  Berlin: Springer, 2002  006.3 BEE  011943</p>
4	<p>Berebdt, Bettina, Ed., Hotho, Adreas, Ed., Mladenic, Dunja, Ed. &amp; Someren, Maarten, Ed.  Web mining: from web to semantic web: first European web mining Forum, EWMF 2003 Cavtat-dubrovnik, Croatia, September 2003 : invited and selected revised papers. (LNAI 3209) New York: Springer-Verlag, 2004  006.3 BER  011517</p>
5	<p>Blache, Philippe, Ed., Stabler, Edward, Ed., Busquets, Joan, Ed. &amp; Moot, Richard, Ed.  Logical aspects of computational linguistics: 5th International conference, LACL 2005, Bordeaux, France April 2005; proceedings. (LNAI 3492)  Berlin: Springer, 2005  006.3 BLA 012850</p>
6	<p>Bousquet, Olivier, Ed., Luxburg, Ulrike von, Ed. &amp; Ratsch, Gunnar, Ed.  Advanced lectures on machine learning: ML Summer Schools 2003: Canberra, Australia, February 2-14 2003 / Tubingen, Germany, August 4-16 2003: revised lectures. (LNAI 3176)  Berlin: Springer, 2004  006.3 BOU  011336</p>
7	<p>Brauer, Wilfried. ... [et al.] (eds.).  Formal and natural computing : essays dedicated to Grzegorz Rozenberg  Berlin. Springer, 2002  004.0151 BRA  019817</p>
8	<p>Dix, Jurgen, Ed. &amp; Leite, Joao, Ed.  Computational logic in multi-agent systems: 4<sup>th</sup> International Workshop, CLIMA IV Fort Lauderdale, FL, USA, January 2004; revised selected and invited papers. (LNAI 3259)  New York: Springer, 2004  006.3 DIX  011915</p>
9	<p>Dojat, Michel, Ed., Keravnou, Elpida, Ed. &amp; Barahona, Pedro, Ed.  Artificial intelligence in medicine. (LNAI 2780)  New York: Springer-Verlag, 2003  006.3 DOJ  008435</p>



10	Dix, Jurgen, Ed. & Leite, Joao, Ed. Computational logic in multi-agent systems: 4 <sup>th</sup> International Workshop, CLIMA IV Fort Lauderdale, FL, USA, January 2004; revised selected and invited papers. (LNAI 3259) New York: Springer, 2004 006.3 DIX 011915
11	Falcone, Rino, ed., Barber, Suzanne, ed., Sabater-Mir, Jordi, ed. & Singh, Munindar P., ed. Trusting agents for trusting electronic societies : theory and applications in HCI and e-commerce Berlin. Springer, 2005 006.3. FAL 013555
12	Fensel, Dieter Problem-solving methods : understanding, discription, development, and reuse. Berlin. Springer, 2000 006.3 FEN 011442
13	Fensel, Dieter Knowledge acquisition New York. Springer Verlag, 1999 006.3 FEN 000008
14	Fischer, Klaus, ed., Florian, Michael, ed. & Malsch, Thomas, ed. Socionics : scalability of complex social systems Berlin. Springer, 2005 006.3. FIS 014518
15	Gorodetsky, Vladimir, ed., Liu, Jiming, ed. & Skormin, Victor A., ed. Autonomous intelligent systems : agents and data mining : International Workshop, AIS-ADM 2005, St. Petersburg, Russia, June 6-8, 2005 : proceedings. Berlin. Springer, 2005 006.3. GOR 013393
16	Hinchey, Michael G., ed., Rash, James L., ed., Truszkowski, Walter F., ed. & Rouff, Christopher A., ed. Formal approaches to agent-based systems : third international workshop, FAABS 2004, Greenbelt, MD, April 26-27, 2004 ; revised papers New York. Springer, 2005 006.3 HIN 012222
17	Huget, Marc-Phillipe, ed. Communication in multiagent systems : agent communication languages and conversation policies New York. Springer, 2003 006.3 HUG 011410
18	Karagiannis, Dimitris, ed. & Reimer, Ulrich, ed. Practical aspects of knowledge management : fifth international conference, PAKM 2004, Vienna, Austria, December 2004 ; proceedings New York. Springer-Verlag, 2004 006.3 KAR 011927
19	Klusck, Matthias [et. Al] (eds.): Cooperative information agents VII: 7 <sup>th</sup> International workshop, CIA 2003 Helsinki, Finland, August 27-29, 2003: Proceedings. Berlin. Springer-Verlag, 2003 006.3 KLU 007626

20	Kraetzschmar, Gerhard K. Distributed reason maintenance for multiagent systems Berlin. Springer-Verlag, 1997 006.3 KRA 007426
21	Liu, Jimingx, ed. & Ye, Yiming, ed. E-commerce agents : marketplace solutions, security issues, and supply and demand Berlin. Springer, 2001 006.3 LIU 011418
22	Marik, Vladimir [et. Al] (eds.) Multi-agent systems and applications III: 3 <sup>rd</sup> International central and Eastern European conference on multi-agent systems. CEEMAS 2003 Prague, Czech Republic, June 16-18, 2003 006.3 MAR 007644
23	Mendelson, Shahar, ed. & Smola, Alexander J., ed. Advanced lectures on machine learning: machine learning summer school 2002 Canberra, Australia, February 11-22, 2002. [Revised lectures] Berlin. Springer, 2003 006.3 MEN 011402
24	Moro, Gianluca, Ed. & Koubarakis, Manolis, Ed. Agents and peer-to-peer computing: first international workshop, AP2PC 2002, Bologna, Italy, July 15, 2002; revised and invited papers. (LNAI 2530) Berlin: Springer Verlag, 2003 006.3 MOR 011913
25	Perner, Petra, Ed. Advances in data mining: applications in e-commerce, medicine, and knowledge management. (LNAI 2394) New York: Springer-Verlag, 2002 006.3 PER 011912
26	Perner, Petra, ed. Advances in data mining : applications in medicine, web mining, marketing, image and signal mining : 6 <sup>th</sup> Industrial Conference on Data Mining, ICDM 2006, Leipzig, Germany, July 14-15, 2006 : proceedings Berlin. Springer, 2006 006.3. PER 014789
27	Paiva, Ana, ed. Affective interactions : towards a new generation of computer interfaces Berlin. Springer, 2000 006.3. PAI 011405
28	Reinartz, Thomas Focusing Solution for Data Mining. (LNAI 1623) New York: Springer-Verlag, 1999 006.3 REI 000005
29	Scholkopf, Bernhard Learning theory and kernel machines: 16 <sup>th</sup> annual conference on learning theory and 7 <sup>th</sup> Kernel workshop, COLT/Kernel 2003 Washington, DC, USA, August 24-27, 2003: Proceedings. (LNAI 2777) Berlin: Springer-Verlag, 2003 006.3 SCH 007624

30	Shi, Yong, Ed., Xu, Weixuan, Ed. & Chen, Zhengxin, Ed. Data mining and knowledge management: Chinese Academy of Sciences symposium, CASDMKM 2004, Beijing, China, July 12-14, 2004; revised papers. (LNAI 3327) New York: Springer, 2004 006.3 SHI 012226
31	Sojka, Petr, Ed., Kopecek, Ivan, Ed. & Pala, Karel, Ed. Text, speech and dialogue: 7 <sup>th</sup> international conference, TSD 2004 Brno, Czech Republic, September 2004 proceedings. (LNAI 3206) New York: Springer, 2004 006.3 SOJ 011314
32	Szczepaniak, Piotr S., ed., Kacprzyk, Janusz, ed. & Niewiadomski, Adam, ed. Advances in web intelligence : third international atlantic web intelligence conference, AWIC 2005, Lodz, Poland, June 6-9, 2005 006.3. SZC 013385
33	Tang, Changjie ... [et al.] (eds.): Advanced data mining and applications : 4 <sup>th</sup> international conference, ADMA 2008, Chengdu, China, October 8-10, 2008 : proceedings Berlin. Springer, 2008 006. 3 TAN 021734
34	Vicedo, Josa Luis, Ed., Martinez-Barco, Patricio, Ed., Munoz, Rafael, Ed. & Noeda, Maximiliano, Ed. Advances in natural language processing: 4 <sup>th</sup> international conference, EsTAL 2004: Alicante, Spain, October 20-22 2004: proceedings. (LNAI 3230) Berlin: Springer-Verlag, 2004 006.3 VIC 011324
35	Visser, Ubbo, Carbonell, J. G., Ed. & Siekmann, J., Ed. Intelligent information integration for the semantic web. (LNAI 3159) Berlin: Springer, 2004 006.3 VIS 011302
36	Wermter, Stefan, ed, Riloff, Ellen, ed. & Scheler, Gabriele, ed. Connectionist, statistical and symbolic approaches to learning for natural language processing New York. Springer-Verlag, 1996 006. 3 WER 010876
37	Zaki, Mohammed J., ed. & Ho, Ching-Tien, ed. Large-scale parallel data mining New York. Springer-Verlag, 2000 006. 3 ZAK 000029
38	Zhong, Ning Methodologies for knowledge discovery and data mining. (LNAI 1574) New York: Springer-Verlag, 1999 006.3 ZHO 000011
39	Zytkov, Jan. M. Principles of data mining and knowledge discovery. (LNAI 1704) New York: Springer-Verlag, 1999 006.3 ZYT 000004

### V Books on Machine Intelligence (Available in the Resource Centre)

1	Jang, Jyh-Shing Roger, Sun, Chuen-Tsai & Mizutani, Eiji Neuro-fuzzy and soft computing. Delhi: Pearson Education, 2004 006.3 JAN 008534
2	Kosko, Bart Neural networks and fuzzy systems: a dynamical systems approach to machine intelligence. New Delhi: Prentice Hall of India, 1999 006.32 KOS 012840
3	Shasha, Dennis Out of Their Minds New York. Copernicus, 1998 004.092 SHA 003447
4	Warwick, Kevin I, Cyborg London . Century Publications , 2002 003.5 WAR 003654

### VI Books on Neural Networks (Available in the Resource Centre)

1	Akay, Metin, ed. Nonlinear biomedical signal processing : fuzzy logic, neural networks, and new algorithms. Volume 1 New York. IEEE Press, 2000 610.285632 AKA 014649
2	Anderson, James Introduction to neural networks New Delhi. Prentice Hall of India, 2001 006.32 AND 003233, 009125
3	Anthony, Martin Discrete mathematics of neural networks : selected topics. Philadelphia. Society for Industrial and Applied Mathematics, 2001 006.320151 ANT 015400
4	Arbib, Michael A. (Ed.) Handbook of brain theory and neural networks. (2nd ed.) Cambridge. The MIT Press, 2003 612.82 REF ARB 006547
5	Bishop, Christopher M. Neural networks for pattern recognition New Delhi. Oxford University Press, 2003. 006.4 BIS 008538
6	Bosacchi, Bruno, Ed., Fogel, David B., Ed. & Bezdek, James C., Ed. Applications and science of neural networks, fuzzy systems, and evolutionary computation VI. 5-6 August, 2003, San Diego, California, USA. Washington, USA. SPIE-International Society for Optical Engineering, 2003. 006.32 BOS 011359

7	Bose, N.K. Neural networks fundamentals with graphs, algorithms and applications New Delhi. Tata McGraw-Hill, 1998 006.32 BOS 003938
8	Chow, Tommy W. S. & Cho, Siu – Yeung Neural networks and computing : learning algorithms and applications London. Imperial College Press, 2007 006.32 CHO 017990
9	Chua, Leon O. & Roska, Tamas Cellular neural networks and visual computing : foundations and applications Cambridge, UK. Cambridge University Press, 2003 006.32 CHU 008945
10	Fausett, Laurene Fundamentals of neural networks: architectures, algorithms, and applications Delhi. Pearson Education, 2004 006.3 FAU 009207, 009953
11	Freeman, James Neural networks Delhi. Pearson Education Asia 006.32 FRE 003655
12	Graupe, Daniel Principles of artificial neural networks, 2nd ed. New Jersey. World Scientific, 2007 006.32 GRA 016966
13	Graupe, Daniel Principles of artificial neural networks Singapore. World Scientific Publishing Company, 1997 006. 3 GRA 017864
14	Hassoun, Mohamad H. Fundamentals of artificial neural networks New Delhi. Prentice Hall of India, 2002 006.32 HAS 005611 – 005613
15	Haykin, Simon Neural networks Delhi. Pearson Education Asia, 2001 006.32 HAY 003546
16	Haykin, Simon Kalman filtering and neural networks New York. Wiley, 2001 006.32 HAY 020156
17	Kartalopoulos, Stamatios V. Understanding neural networks and fuzzy logic New Delhi . Prentice Hall of India, 2002 006.32 K185U 001499, 003991

18	Kecman, Vojislav Learning and soft computing: Support vector machines, Neural networks and Fuzzy logic models Cambridge. The MIT Press, 2001 006.32 KEC 006542
19	Kosko, Bart Neural networks and fuzzy systems: a dynamical systems approach to machine intelligence New Delhi. Prentice Hall of India, 1999 006.32 KOS 005815, 012840
20	Lowen, R., ed. & Verschoren, A., ed. Foundations of generic optimization. Volume 2 : applications of fuzzy control, genetic algorithms and neural networks New York. Springer, 2008 519.62 LOW 018497
21	Maass, Wolfgang and Bishop, Christopher M. Pulsed neural networks Cambridge. The MIT Press, 2001 006.32 MAA 006543
22	Nelles, Oliver Nonlinear systems identifications New York . Springer-Verlag , 2000 003.75 NEL 004847
23	Omidvar, Omid, Ed. & Dayhoff, Judith, Ed. Neural networks and pattern recognition. San Diego. Academic Press, 1998 006.32 OMI 019647
24	Perlovesky,leonid I. Neural networks and intellect: Usibg model-based concepts New Delhi. Oxford University Press, 2001 006.32 PER 001258
25	Prasad, Bhanu, ed. & Prasanna, S. R. Mahadeva, ed. Speech, audio, image and biomedical signal processing using neural networks. Berlin. Springer, 2008 006.32 PRA 020006
26	Priddy, Kevin L. & Keller, Paul E. Artificial neural networks : an introduction New Delhi. Prentice Hall of India, 2005 006.32 PRI 017671
27	Rajasekaran, S. & Pai, G. A. Vijayalakshmi Neural networks, fuzzy logic and genetic algorithms : synthesis and applications New Delhi. Prentice Hall of India, 2003 006.32 RAJ 007576
28	Rutkowski, Leszek, ed. And Kacprzyk, Janusz, ed. Neural networks and soft computing Heidelberg. Physica-Verlag, 2003 006.32 RUT 009252

29	Tang, Huajin, Tan, Kay Chen & Zhang, Yi Neural networks : computational models and applications Berlin. Springer, 2007 006.32 TAN 017365
30	Vidyasagar, M. Learning and generalization : with applications to neural networks London. Springer, 2002 006.31 VID 009000
31	Yegnanarayana, B. Artificial neural networks New Delhi. Prentice Hall of India, 2003 006.32 YEG 012809
32	Yegnanarayana, B Artificial neural networks New Delhi. Prentice Hall of India, 2001 006.32 YEG 005607 – 005609
33	Yi, Zhang & Tan, K.K. Convergence analysis of recurrent neural networks U.K. Kluwer Academic, 2004 006.32 YI 010309
34	Zaknich, Anthony Neural networks for intelligent signal processing New Jersey. World Scientific Publishing Company, 2003 006.32 ZAK 017862
35	Zhang, David, ed. & Pal, Sankar K., ed. Neural networks and systolic array design Singapore. World Scientific, 2002 006.3222 ZHA 014566
36	Zupan, Jure & Gasteiger, Johann Neural networks in chemistry and drug design: An introduction, 2nd ed. Weinheim. Wiley-VCH, 1999 006.32 ZUP 007144

### **VII Books on Robotics (Available in the Resource Centre) 32**

1	Braunl, Thomas Embedded robotics : mobile robot design and applications with embedded systems, 3rd ed.. Berlin. Springer, 2008 629.892 BRA 021942
2	Braunl, Thomas Embedded robotics : mobile robot design and applications with embedded systems Berlin. Springer-Verlag, 2003 629.892 BRA 008687

3	Brugali, Davide, ed. Software engineering for experimental robotics Berlin. Springer, 2007 629.89251 BRU 016178
4	Casasent, David P., Ed., Hall, Ernest L., Ed. & Roning, Juha, Ed. Intelligent robots and computer vision XXI: algorithms, techniques and active vision. USA: SPIE- The International Society for Optical Engineering, 2003 629.892 CAS 008615
5	Craig, John J. Introduction to robotics and control (2 <sup>nd</sup> ) Delhi . Pearson Education Asia , 2002 629.892 CRA 003671
6	Dudek, Gregory & Jenkin, Michael Computational principles of mobile robotics Cambridge. Cambridge University Press, 2000 629.892 DUD 005341
7	Filipe, Joaquim ...[et al.] (eds.) Informatics in control, automation and robotics II Dordrecht. Springer, 2007 629.8 FIL 016875
8	Fu, K. S., Gonzalez, R. C. & Lee, C. S. G. Robotics: control, sensing, vision, and intelligence New York: McGraw-Hill, 1987 629.892 FU 006095
9	Ghosal, Ashitava Robotics : fundamental concepts and analysis New Delhi. Oxford University Press, 2006 629.892 GHO 014828
10	Goldberg, Ken Ed. Robot in the garden London: The MIT Press, 2001 629.892 GOL 001480
11	Groover, Mikell P., Weiss, Mitchell, Nagel, Roger N. & Odrey, Nicholas G. Industrial robotics : technology, programming and applications New Delhi. McGraw-Hill, 1986 629.892 GRO 006307
12	Gunaraj, V., ed. Emerging technologies in intelligent system and control : exploring, exposing and experiencing the emerging technologies ( EISCO-2005) 5 – 7 January 2005, International conference. Volume 1 New Delhi. Allied Publisher, 2005 006. 3 GUN 019654- 019655



13	Jazar, Reza N. Theory of applied robotics : kinematics, dynamics, and control New York. Springer, 2007 629.892 JAZ 017341
14	Keramas, James G. Robot technology fundamentals Albany: Delmar-Thomson Learning, 1998 670.427 KER 005534, 005641
15	Klafter, Richard D., Chmielewski, Thomas A. & Negin, Michael Robotic engineering New Delhi: Prentice Hall of India, 2003 629.892 KLA 005397
16	Kragic, Danica & Kyrki, Ville Unifying perspective in computational and robot vision New York. Springer, 2008 006.37 KRA 021401
17	Kuttan, Appuu K. K. Robotics New Delhi. I. K. International, 2007 629.892 KUT 020468
18	Larminat, Philippe de Analysis and control of linear systems London. ISTE, 2007 629.832 LAR 017067
19	Magnenat-Thalmann, N., Ed. & Thalmann, D., Ed. Handbook of virtual humans New Jersey: John Wiley and Sons, 2004 629.892 REF MAG 011350
20	Mason, Matthew T. Mechanics of robotic manipulation Cambridge: The MIT Press, 2001 629.892 MAS 006537
21	McComb, Gordon Robot builder's bonanza. 2ndEd. New York: McGraw-Hill, 2000 629.892 MCC 006383
22	Milutinovic, Dejan Lj. & Lima, Pedro U. Cells and robots : modeling and control of large-size agent populations Berlin. Springer, 2007 629.892 MIL 016718
23	Mittal, R. K. & Nagrath, I. J. Robotics and control New Delhi. Tata McGraw-Hill, 2003 629.8 MIT 013603

24	Mulhall, Douglas Our molecular future: how nanotechnology, robotics, genetics and artificial intelligence will transform our world New York: Prometheus Books, 2002 303.483 MUL 010561
25	Murphy, Robin R. Introduction to AI-Robotics New Delhi: Prentice-Hall, 2004 629.862 63 MUR 008873
26	Niku, Saeed B. Introduction to robotics Delhi: Pearson Education Asia, 2002 629.892 N694I 004492
27	Sahin, Ferat & Kachroo, Pushkin Practical and experimental robotics Boca Raton. CRC Press, 2008 629.892 SAH 018993
28	Schilling, Robert J. Fundamentals of robotics : analysis and control New Delhi. Prentice Hall of India, 1990 629.892 SCH 003940
29	Siciliano, Bruno, ed. & Khatib, Oussama, ed. Springer handbook of robotics Berlin. Springer, 2008 629.892 SIC REF 021192
30	Severin, Oliver E. Robot companions: mentor bots and beyond New York: McGraw-Hill, 2003 303.483 4 SEV 008840
31	Shircliff, David R. Build a remote controlled Robot New York: McGraw-Hill, 2002 629.892 SHI 006381
32	Stone, Peter Layered learning in multi agent systems: A winning approach to robotic soccer Cambridge: The MIT Press, 2000 006.3 STO 007425
33	Thro, Ellen Robotics Hyderabad Universities Press, 2000 500 THR 004221
34	Thrun, Sebastian, ed., Sukhatme, Gaurav, ed., Schaal, Stefan, ed. & Brock, Oliver, ed. Robotics : science and systems I Cambridge. MIT Press, 2005 629.892 THR 014104

35	Vajpayee, S. Kant Principles of computer-integrated manufacturing New Delhi: Prentice Hall of India, 1999 670.285 VAJ 005388
36	Van Pelt, Michel Space invaders : how robotic spacecraft explore the solar system New York. Springer, 2007 629.43 VAN 017368
37	Webb, Barbara Biorobotics London: The MIT Press, 2001 591.501 WEB 002091
38	Williams, Karl Amphibionics: build your own biologically inspired robot New York: McGraw-Hill, 2003 629.892 WIL 011075
39	Xie, Ming Fundamentals of robotics : linking perception to action New Jersey. World Scientific, 2003 629.892 XIE 015678
40	Yoshikawa, Tsuneo Foundations of robotics New Delhi: Prentice Hall of India, 2001 629.892 YOS 003939

### VIII. Journals (Available in the Resource Centre)

1	ACM SIGART Bulletin (Available in the Resource Centre) <a href="http://portal.acm.org/browse_dl.cfm?linked=1&amp;part=newsletter&amp;idx=J686&amp;coll=portal&amp;dl=ACM&amp;CFID=56670247&amp;CFTOKEN=21637692">http://portal.acm.org/browse_dl.cfm?linked=1&amp;part=newsletter&amp;idx=J686&amp;coll=portal&amp;dl=ACM&amp;CFID=56670247&amp;CFTOKEN=21637692</a>
2	ACM Special Interest Group on Information Retrieval (Available in the Resource Centre) <a href="http://portal.acm.org/browse_dl.cfm?linked=1&amp;part=newsletter&amp;idx=J701&amp;coll=portal&amp;dl=ACM&amp;CFID=56670247&amp;CFTOKEN=21637692">http://portal.acm.org/browse_dl.cfm?linked=1&amp;part=newsletter&amp;idx=J701&amp;coll=portal&amp;dl=ACM&amp;CFID=56670247&amp;CFTOKEN=21637692</a>
3	ACM Transactions on Sensor Networks (TOSN) (Available in the Resource Centre) <a href="http://portal.acm.org/browse_dl.cfm?linked=1&amp;part=transaction&amp;idx=J981&amp;coll=portal&amp;dl=ACM&amp;CFID=56670247&amp;CFTOKEN=21637692">http://portal.acm.org/browse_dl.cfm?linked=1&amp;part=transaction&amp;idx=J981&amp;coll=portal&amp;dl=ACM&amp;CFID=56670247&amp;CFTOKEN=21637692</a>
4	AI & Society (Available in the Resource Centre) <a href="http://springerlink.metapress.com/(zsupa045igz1k345oqmh4145)/app/home/journal.asp?referrer=parent&amp;backto=linkingpublicationresults,1:102816,1">http://springerlink.metapress.com/(zsupa045igz1k345oqmh4145)/app/home/journal.asp?referrer=parent&amp;backto=linkingpublicationresults,1:102816,1</a>
5	Artificial Life and Robotics (Available in the Resource Centre) <a href="http://springerlink.metapress.com/(uag0kaz5otgr1o550yyzf145)/app/home/journal.asp?referrer=parent&amp;backto=linkingpublicationresults,1:112249,1">http://springerlink.metapress.com/(uag0kaz5otgr1o550yyzf145)/app/home/journal.asp?referrer=parent&amp;backto=linkingpublicationresults,1:112249,1</a>
6	IEEE Expert magazine (Available in the Resource Centre) <a href="http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=64">http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=64</a>
7	IEEE Intelligent Systems and Their Applications (Available in the Resource Centre) <a href="http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=5254">http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=5254</a>
8	IEEE Robotics & Automation Magazine (Available in the Resource Centre) <a href="http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=100">http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=100</a>

9	IEEE Journal of Robotics and Automation (Available in the Resource Centre) <a href="http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=56">http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=56</a>
10	IEEE Transactions on Knowledge and Data Engineering (Available in the Resource Centre) <a href="http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=69">http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=69</a>
11	IEEE Transactions on Neural Networks (Available in the Resource Centre) <a href="http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=72">http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=72</a>
12	IEEE Transactions on Pattern Analysis and Machine Intelligence (Available in the Resource Centre) <a href="http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=34">http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=34</a>
13	IEEE Transactions on Robotics and Automation (Available in the Resource Centre) <a href="http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=70">http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=70</a>
14	IEEE Transactions on Automation Science and Engineering (Available in the Resource Centre) <a href="http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=8856">http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=8856</a>
15	IEEE Transactions on Neural Systems and Rehabilitation Engineering (Available in the Resource Centre) <a href="http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=7333">http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=7333</a>
16	IEEE Transactions on Pattern Analysis and Machine Intelligence (Available in the Resource Centre) <a href="http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=34">http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=34</a>
17	Intelligence <a href="http://portal.acm.org/browse_dl.cfm?linked=1&amp;part=magazine&amp;idx=J372&amp;coll=portal&amp;dl=A CM&amp;CFID=56670247&amp;CFTOKEN=21637692">http://portal.acm.org/browse_dl.cfm?linked=1&amp;part=magazine&amp;idx=J372&amp;coll=portal&amp;dl=A CM&amp;CFID=56670247&amp;CFTOKEN=21637692</a>
18	Journal of Artificial Intelligence Research ((Available free on the Internet) <a href="http://www.cs.washington.edu/research/jair/">http://www.cs.washington.edu/research/jair/</a>
19	Knowledge-Based Systems (Print +Online) (Available in the Resource Centre) <a href="http://resourcecentre.da-iiict.org/resources/journals/kl.html">http://resourcecentre.da-iiict.org/resources/journals/kl.html</a>
20	Knowledge and Information Systems (Available in the Resource Centre) <a href="http://www.springer.com/computer/information+systems/journal/10115">http://www.springer.com/computer/information+systems/journal/10115</a>

### IX. CDs (Available in the Resource Centre)

1	Breazeal, Cynthia L. Designing sociable robots Cambridge: The MIT Press, 2002 006.3 BRE C00757
2	Dustin, Elfriede, Rashka, Jeff & Paul, John Automated software testing: introduction, management, and performance Boston: Addison Wesley, 1999 005.14 DUS C00973
3	Hannold, Chris Combat robot weapons New York. McGraw-Hill, 2003 629.892 HAN C00795
4	Jones, M. Tim Artificial intelligence application programming New Delhi: Wiley-dreamtech India, 2003 006.3 JON C01008
5	Principe, Jose C., Euliano, Neil R. & Lefebvre and W. Curt Neural and adaptive systems: fundamentals through simulations New York. John Wiley & Sons, 2000 006.32 PRI C00933

6	Rajasekaran, S. & Pai and G. A. Vijayalakshmi Neural networks, fuzzy logic and genetic algorithms: synthesis and applications New Delhi. Prentice Hall of India, 2003 006.32 RAJ C00725
7	Singh, Vivek Kumar Knowledge management techniques towards answering engine Gandhinagar: Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT), 2005 004.678 SIN C01079

## X Associations and Newsgroups X Internet Resources

1	AI Conferences & AI Publications <a href="http://www.ais.fraunhofer.de/services/AI-Conferences/conferences.html">http://www.ais.fraunhofer.de/services/AI-Conferences/conferences.html</a>
2	American Association for Artificial Intelligence <a href="http://www.aaai.org/">http://www.aaai.org/</a>
3	SIGART, the ACM Special Interest Group on Artificial Intelligence <a href="http://www.acm.org/sigart/">http://www.acm.org/sigart/</a>
4	European Neural Network Society (ENNS) <a href="http://www.snn.kun.nl/enns/">http://www.snn.kun.nl/enns/</a>
5	INNS.org - International Neural Network Society <a href="http://www.inns.org/">http://www.inns.org/</a>
6	comp.ai.nat-lang FAQs <a href="http://www.faqs.org/faqs/by-newsgroup/comp/comp.ai.nat-lang.html">http://www.faqs.org/faqs/by-newsgroup/comp/comp.ai.nat-lang.html</a>
7	Artificial Intelligence News Groups (National Research Council, Canada) <a href="http://ai.iit.nrc.ca/ai_news.html">http://ai.iit.nrc.ca/ai_news.html</a>
8	AI Education Repository <a href="http://www.cs.cofc.edu/~manaris/ai-education-repository/">http://www.cs.cofc.edu/~manaris/ai-education-repository/</a>
9	The AI Group at the University of Manchester <a href="http://www.cs.manchester.ac.uk/ai/">http://www.cs.manchester.ac.uk/ai/</a>
10	AI International <a href="http://www.aiinternational.org/">http://www.aiinternational.org/</a>
11	AI on the Web <a href="http://www.cs.berkeley.edu/~russell/ai.html">http://www.cs.berkeley.edu/~russell/ai.html</a>
12	AI Programming Languages FAQs (CMU Artificial Intelligence Repository) <a href="http://www.cs.cmu.edu/Groups/AI/html/faqs/lang/top.html">http://www.cs.cmu.edu/Groups/AI/html/faqs/lang/top.html</a>
13	Artificial Intelligence <a href="http://en.wikipedia.org/wiki/Artificial_Intelligence">http://en.wikipedia.org/wiki/Artificial_Intelligence</a>
14	Artificial Intelligence: A Modern Approach <a href="http://aima.cs.berkeley.edu/">http://aima.cs.berkeley.edu/</a>
15	Artificial Intelligence Applications Institute <a href="http://www.aiai.ed.ac.uk/">http://www.aiai.ed.ac.uk/</a>
16	Artificial Intelligence FAQs <a href="http://www.faqs.org/faqs/ai-faq/">http://www.faqs.org/faqs/ai-faq/</a>
17	Artificial Intelligence Research Group, Univ. of Washington <a href="http://www.cs.washington.edu/ai/">http://www.cs.washington.edu/ai/</a>
18	Artificial Intelligence @ Bristol <a href="http://www.enm.bris.ac.uk/ai/index.html">http://www.enm.bris.ac.uk/ai/index.html</a>

19	Artificial Intelligence Group at the Jet Propulsion Laboratory <a href="http://www-aig.jpl.nasa.gov/">http://www-aig.jpl.nasa.gov/</a>
20	Artificial Intelligence I Course <a href="http://www.cs.cf.ac.uk/Dave/AI1/AI1.html">http://www.cs.cf.ac.uk/Dave/AI1/AI1.html</a>
21	Artificial Neural Networks in High Energy Physics <a href="http://neuralnets.web.cern.ch/NeuralNets/nnwinHep.html">http://neuralnets.web.cern.ch/NeuralNets/nnwinHep.html</a>
22	The Austrian Research Institute for Artificial Intelligence (OFAI) of the Austrian Society for Cybernetic Studies (OSGK) <a href="http://www.ofai.at/">http://www.ofai.at/</a>
23	Brief History of Artificial Intelligence <a href="http://www.aaai.org/AITopics/bbhist.html">http://www.aaai.org/AITopics/bbhist.html</a>
24	Columbia University Robotics Group <a href="http://www1.cs.columbia.edu/robotics/">http://www1.cs.columbia.edu/robotics/</a>
25	Computer Science and Artificial Intelligence Laboratory <a href="http://www.csail.mit.edu/index.php">http://www.csail.mit.edu/index.php</a>
26	Carnegie Mellon The Robotics Institute <a href="http://www.ri.cmu.edu/">http://www.ri.cmu.edu/</a>
27	European Coordinating Committee for Artificial Intelligence <a href="http://www.eccai.org/">http://www.eccai.org/</a>
28	Harvard Robotics Laboratory <a href="http://hrl.harvard.edu/">http://hrl.harvard.edu/</a>
29	The History of Robotics <a href="http://cache.ucr.edu/~currie/roboadam.htm">http://cache.ucr.edu/~currie/roboadam.htm</a>
30	Hybrid Intelligent Systems Projects <a href="http://www.his.sunderland.ac.uk/projects/projects.html">http://www.his.sunderland.ac.uk/projects/projects.html</a>
31	Image Processing and Expert Systems (IPES) Laboratory <a href="http://www2.warwick.ac.uk/fac/sci/eng/eed/research/ipes/">http://www2.warwick.ac.uk/fac/sci/eng/eed/research/ipes/</a>
32	Machine Intelligence Laboratory <a href="http://www.mil.ufl.edu/">http://www.mil.ufl.edu/</a>
33	Marvin Minsky <a href="http://web.media.mit.edu/~minsky/">http://web.media.mit.edu/~minsky/</a>
34	Nanotechnology News and Discussion – Machine Intelligence <a href="http://www.foresight.org/nanodot/?cat=15">http://www.foresight.org/nanodot/?cat=15</a>
35	Navy Center for Applied Research in Artificial Intelligence <a href="http://www.nrl.navy.mil/aic/index.php">http://www.nrl.navy.mil/aic/index.php</a>
36	Neural Network <a href="http://en.wikipedia.org/wiki/Neural_network">http://en.wikipedia.org/wiki/Neural_network</a>
37	Neural Network Information <a href="http://www.enm.bris.ac.uk/research/neural/sites.html">http://www.enm.bris.ac.uk/research/neural/sites.html</a>
38	Neural Networks Research Center <a href="http://www.cis.hut.fi/research/">http://www.cis.hut.fi/research/</a>
39	Neural Network Toolbox 4.0.6 <a href="http://www.mathworks.com/products/neuralnet/">http://www.mathworks.com/products/neuralnet/</a>
40	Robotics and Intelligent Machines Laboratory <a href="http://robotics.eecs.berkeley.edu/">http://robotics.eecs.berkeley.edu/</a>
41	Robotics Research Group, University of Texas, Austin <a href="http://www.robotics.utexas.edu/rrg/learn_more/history/">http://www.robotics.utexas.edu/rrg/learn_more/history/</a>
42	Robotics Research Lab, USC <a href="http://www-robotics.usc.edu/">http://www-robotics.usc.edu/</a>

43	The Society for the Study of Artificial Intelligence and Simulation of Behaviour (AISB) <a href="http://www.aisb.org.uk/">http://www.aisb.org.uk/</a>
44	Stanford AI Laboratory <a href="http://ai.stanford.edu/">http://ai.stanford.edu/</a>
45	A Tool for Building Expert Systems <a href="http://www.ghg.net/clips/CLIPS.html">http://www.ghg.net/clips/CLIPS.html</a>
46	Vision and Robotics Research <a href="http://www.cs.rochester.edu/research/robotics.html">http://www.cs.rochester.edu/research/robotics.html</a>

*Created on 3<sup>rd</sup> July 2009*

