

- composite synthesized by mechanical alloying[J]. Journal of Magnetic Materials, 2003, 256 (13): 13-19.
- [4] PAL M, BIDB S, PRADHANBP S K, et al. Synthesis of nanocomposites comprising iron and barium hexaferrites[J]. Journal of Magnetism and Magnetic Materials, 2004, 269: 42-47.
- [5] SUDAKAR C, SUBBANNA G N, KUTTYB T R N. Hexaferrite-FeCo nanocomposite particles and their electrical and magnetic properties at high frequencies[J]. American Institute of Physics, 2003, 94(9): 6030-6033.
- [6] WALSER R M, WIN W, VALANJU P M. Fabrication and properties of microforged Ferromagnetic nanoflakes[J]. IEEE Trans Magn, 1998, 34: 1390.
- [7] 姚光俊, 胡国光, 尹萍, 等. $(\text{MnZnCo})_2\text{-W}$ 和 $(\text{MnZnCo})_2\text{-Y}$ 型复合铁氧体材料吸收微波特性的研究和比较[J]. 功能材料, 1999, 30(4): 361-363.
- [8] 胡国光, 姚学标, 尹萍, 等. $\text{Zn}_{2-x}\text{Co}_x\text{-W}$ 型铁氧体微波吸收剂的制备和特性研究[J]. 磁性材料及器件, 1998, 29(3): 8-11.
- [9] 阮圣平, 吴凤清, 王永为, 等. 钡铁氧体纳米复合材料的制备及其微波吸收性能[J]. 物理化学学报, 2003, 19(6): 275-277.
- [10] 韩志全, 许小文, 任仕晶. 微波铁氧体材料的晶粒细化[J]. 磁性材料及器件, 2001, 32(5): 10-13.

编辑 张俊

(上接第423页)

(7) LCNN一样可以建立像素间独立模型和图像间独立模型, 因为无论Helmholtz自由能还是 L 函数, 都是颠扑不破的自然定律, 在任何环境下都适用。

参 考 文 献

- [1] HERAULT J, JUTTEN C. Space or time adaptive signal processing by neural network models[C]//Neural Networks for Computing, AIP Conference Proceeding 151. New York: American Institute for Physics, 1986.
- [2] BELL A J. An information maximization approach to blind separation and blind deconvolution[J]. Neural Computation, 1995, (7): 1129-1159
- [3] LEE T W. Independent component analysis using an extended infomax algorithm for subGaussian and super-Gaussian sources[J]. Neural Computation, 1999, 11(2): 409-433.
- [4] AMARI S I. New learning in structural parameter space — natural Riemannian gradient[J]. Advances in Neural Information Processing Systems, 1997, (9): 127-133.
- [5] HYVARINEN A, OJA E. A fast fixed-point algorithm for independent component analysis[J]. IEEE Trans on Neural Network, 1999, 10(3): 626-634.
- [6] 斯华龄, 张立明. 智能视觉图像处理[M]. 上海: 上海科技教育出版社, 2002.
- [7] 余堃. 鲁棒图像多目数字水印技术研究[D]. 成都: 电子科技大学, 2006.
- [8] 余堃, 蒲红梅. 自适应多目独立成分分析[J]. 电子科技大学学报, 2007, 36(1): 11-13.

编辑 税红

(上接第445页)

- [5] BEARD P C, MILLS T N. Optical detection system for biomedical photoacoustic imaging[J]. Proceedings of SPIE—The International Society for Optical Engineering, 2000, 3916: 100-109.
- [6] WANG C H, MANDELIS A, GARCIA J A. Pd/PVDF thin film hydrogen sensor system based on photopyroelectric purely-thermal-wave interference[J]. Sensors and Actuators B, 1999, 60(2-3): 228-237.
- [7] JIANG Z, FUNAI K, TANAKA M, et al. Development of soft tribo-sensor using PVDF film for skin surface contour measurement[J]. J Intell Mater Sys Struct, 2000, 10(6): 481-488.
- [8] WAKIZAKA D, FUSHIMI T, OHKITA H, et al. Hole transport in conducting ultrathin films of PEDOT/PSS prepared by layer-by-layer deposition technique[J]. Polym, 2004, 45: 8561-8565.
- [9] HARASZTI T, DEKANY I, FENDLER J H. Measurements of interaction forces between polycations, between clay nanoplatelets, and between polycations and clay nanoplatelets by atomic force microscopy[J]. Journal of Physical Chemistry B, 2001, 105(43): 10579-10587.
- [10] SAUERBREY G. The use of quartz oscillators for weighing thin layers and for microweighing [J]. Z Phys, 1959, 155(11): 206-222.
- [11] 张福学, 王丽坤. 现代压电学[M]. 北京: 科学出版社, 2002.
- [12] 叶芸, 蒋亚东, 吴志明, 等. 电极化对Ag/PVDF薄膜间相互作用的XPS研究[J]. 功能材料, 2006, 37(9): 1378-1380, 1385.

编辑 漆蓉