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This index covers all technical items - papers, correspondence, reviews, etc. that appeared in this periodical during 1999, and items from previous years that were commented upon or corrected in 1999. In the case of magazines, departments and other items may be also covered if they have been judged to have archival value.

The Author Index contains the primary entry for each item, listed under the first author's name. The primary entry includes the coauthors' names, the title of the paper or other item, and its location, specified by the publication abbreviation, year, month, and inclusive pagination. The Subject Index contains entries describing the item under all appropriate subject headings, plus the first author's name, the publication abbreviation, month, and year, and inclusive pages. Subject cross-references are included to assist in finding items of interest. Note that the item title is found only under the primary entry in the Author Index.

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Evans, J., and V. Krishnamurthy. Exact filters for doubly stochastic AR models with conditionally Poisson observations; *T-AC Apr* 99 794-798
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- Familoni, B.O.**, see Ji, X.D., *T-AC Jul* 99 1469-1473
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Favreol, W., B. De Moor, and P. Van Overschee. Subspace identification of bilinear systems subject to white inputs; *T-AC Jun* 99 1157-1165
Feinberg, E.A., and A. Shwartz. Constrained dynamic programming with two discount factors: applications and an algorithm; *T-AC Mar* 99 628-631
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Fernandez-Anaya, G. Preservation of SPR functions and stabilization by substitutions in SISO plants; *T-AC Nov* 99 2171-2174
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Fialho, I.J., and T.T. Georgiou. Worst case analysis of nonlinear systems; *T-AC Jun* 99 1180-1196
Fliess, M., J. Levine, P. Martin, and P. Rouchon. A Lie-Backlund approach to equivalence and flatness of nonlinear systems; *T-AC May* 99 922-937
Fornasini, E., and M.E. Valcher. Stability properties and periodic evolutions of bilinear systems in input-output form; *T-AC Jun* 99 1197-1202
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Freiling, G., S.-R. Lee, and G. Jank. Coupled matrix Riccati equations in minimal cost variance control problems; *T-AC Mar* 99 556-560
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Gang Feng Analysis of a new algorithm for continuous-time robust adaptive control; *T-AC Sep* 99 1764-1768
Garcia, G., S. Tarbouriech, R. Suarez, and J. Alvarez-Ramirez. Nonlinear bounded control for norm-bounded uncertain systems; *T-AC Jun* 99 1254-1258
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Garg, V.K., R. Kumar, and S.I. Marcus. A probabilistic language formalism for stochastic discrete-event systems; *T-AC Feb* 99 280-293
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Georges, D., C.C. de Wit, and J. Ramirez. Nonlinear H_2 and H_∞ optimal controllers for current-fed induction motors; *T-AC Jul* 99 1430-1435
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Gerencser, L. Convergence rate of moments in stochastic approximation with simultaneous perturbation gradient approximation and resetting; *T-AC May* 99 894-905
Geromel, J.C., J. Bernussou, and M.C. de Oliveira. H_2 -norm optimization with constrained dynamic output feedback controllers: decentralized and reliable control; *T-AC Jul* 99 1449-1454
Gessing, R. Word length of pulse transfer function for small sampling periods; *T-AC Sep* 99 1760-1764
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- Gundes, A.N.**, and M.G. Kabuli. Parametrization of stabilizing controllers with integral action; *T-AC Jan* 99 116-119
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Guoxiang Gu Modeling of normalized coprime factors with v-metric uncertainty; *T-AC Aug* 99 1498-1511
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- Hagiwara, T.**, Y. Miyake, E. Furutani, and M. Araki. Stability condition of a class of nonlinear feedback systems: reduction to a convex problem; *T-AC Aug* 99 1573-1577
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Hao Lu, Huajing Fang, and Xinhua Huang. Comments on "A weighted mixed-sensitivity H_∞ -control design for irrational transfer matrices"; *T-AC Jun* 99 1309-1310
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Hayakawa, K., K. Matsumoto, M. Yamashita, Y. Suzuki, K. Fujimori, and H. Kimura. Robust H^∞ -output feedback control of decoupled automobile active suspension systems; *T-AC Feb* 99 392-396
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Henrion, D., and M. Sebek. Reliable numerical methods for polynomial matrix triangularization; *T-AC Mar* 99 497-508
Henrion, D., S. Tarbouriech, and G. Garcia. Output feedback robust stabilization of uncertain linear systems with saturating controls: an LMI approach; *T-AC Nov* 99 2230-2237
Hernandez-Hernandez, D., S.I. Marcus, and P.J. Fard. Analysis of a risk-sensitive control problem for hidden Markov chains; *T-AC May* 99 1093-1100
Herrera, A., see Lozano, R., *T-AC Dec* 99 2318-2320
Hess, R.A. Advances in Aircraft Flight Control (Tischler, M.B., Ed.; 1996) [book review]; *T-AC Apr* 99 887-889
Hibey, J.L., and C.D. Charalambos. Performance analysis for a changepoint problem; *T-AC Aug* 99 1628-1632
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- II Kang Hwan**, *see* Hwan II Kang, *T-AC Aug 99* 1612
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Ionescu, V. Time-varying discrete Riccati equation: l^2 -invertibility, dichotomy, and disconjugacy; *T-AC Nov 99* 2158-2163
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- Jabbari, F.**, *see* Emre Kose, I., *T-AC Mar 99* 658-663
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Ji, X.D., and B.O. Filanovil. A diagonal recurrent neural network-based hybrid direct adaptive SPWA control system; *T-AC Jul 99* 1469-1473
Jiafi-Xin Xu, and Tao Zhu. Dual-scale direct learning control of trajectory tracking for a class of nonlinear uncertain systems; *T-AC Oct 99* 1884-1888
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Johansson, K.H., and A. Rantzer. Decentralized control of sequentially minimum phase systems; *T-AC Oct 99* 1909-1913
Jonsson, U. A Popov criterion for systems with slowly time-varying parameters; *T-AC Apr 99* 844-846
Jonsson, U. Duality in multiplier-based robustness analysis; *T-AC Dec 99* 2246-2256
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Jung-Shan Lin, and I. Kanellakopoulos. Nonlinearities enhance parameter convergence in strict feedback systems; *T-AC Jan 99* 89-94
Jun Wu, and Jian Chu. Approximation methods of scalar mixed H_2/l_1 problems for discrete-time systems; *T-AC Oct 99* 1869-1874

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- Kabamba, P.T.**, *see* Davison, D.E., *T-AC Jun 99* 1132-1144
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- Koumboulis, F.N.**, and V. Kucera. Partial model matching via static feedback (the multivariable case); *T-AC Feb 99* 386-392
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Lang Hong Multitrate interacting multiple model filtering for target tracking using multitrate models; *T-AC Jul 99* 1326-1340
Lasserre, J.B. Sample-path average optimality for Markov control processes; *T-AC Oct 99* 1966-1971
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Leland, R.P. An approximate-predictor approach to reduced-order models and controllers for distributed-parameter systems; *T-AC Mar 99* 623-627
Lemonn, M.D., and A.N. Michel. Guest editorial: Special section on neural networks in control, identification, and decision making [intro.]; *T-AC Nov 99* 1993-1994
Leonard, F. First-order optimal reduced-delay sample-data holds; *T-AC Jul 99* 1446-1449
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- Peng Shi**, and V. Dragan. Asymptotic H_∞ control of singularly perturbed systems with parametric uncertainties; *T-AC Sep 99* 1738-1742
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- Rosenvasser, E.N.**, and R.M. Yusupov. Theory of Sensitivity in Dynamic Systems, An Introduction (Eslami, M.; 1994) [book review]; *T-AC May 99* 1101-1103
- Rosenvasser, Ye.N.**, E.Yu. Polyakov, and B.P. Lampe. Application of Laplace transformation for digital redesign of continuous control systems; *T-AC Apr 99* 883-886
- Rotstein, H.**, and S. Raz. Gabor transform of time-varying systems: exact representation and approximation; *T-AC Apr 99* 729-741
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