

Ettore Fornasini

List of Publications by Year in descending order

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36
papers

1,682
citations

430874

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526287

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36
docs citations

36
times ranked

520
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Observability, Reconstructibility and State Observers of Boolean Control Networks. IEEE Transactions on Automatic Control, 2013, 58, 1390-1401. | 5.7 | 352 |
| 2 | Optimal Control of Boolean Control Networks. IEEE Transactions on Automatic Control, 2014, 59, 1258-1270. | 5.7 | 214 |
| 3 | Linear Copositive Lyapunov Functions for Continuous-Time Positive Switched Systems. IEEE Transactions on Automatic Control, 2010, 55, 1933-1937. | 5.7 | 211 |
| 4 | On the periodic trajectories of Boolean control networks. Automatica, 2013, 49, 1506-1509. | 5.0 | 142 |
| 5 | Output feedback stabilization of Boolean control networks. Automatica, 2015, 57, 21-28. | 5.0 | 127 |
| 6 | A 2-D systems approach to river pollution modelling. Multidimensional Systems and Signal Processing, 1991, 2, 233-265. | 2.6 | 69 |
| 7 | Fault Detection Analysis of Boolean Control Networks. IEEE Transactions on Automatic Control, 2015, 60, 2734-2739. | 5.7 | 69 |
| 8 | Directed graphs, 2D state models, and characteristic polynomials of irreducible matrix pairs. Linear Algebra and Its Applications, 1997, 263, 275-310. | 0.9 | 54 |
| 9 | Recent developments in Boolean networks control. Journal of Control and Decision, 2016, 3, 1-18. | 1.6 | 47 |
| 10 | Dynamic regulation of 2D systems: A state-space approach. Linear Algebra and Its Applications, 1989, 122-124, 195-218. | 0.9 | 45 |
| 11 | Symbolic dynamics of Boolean control networks. Automatica, 2013, 49, 2525-2530. | 5.0 | 45 |
| 12 | On 2D finite support convolutional codes: An algebraic approach. Multidimensional Systems and Signal Processing, 1994, 5, 231-243. | 2.6 | 34 |
| 13 | State models and asymptotic behaviour of 2D positive systems. IMA Journal of Mathematical Control and Information, 1995, 12, 17-36. | 1.7 | 32 |
| 14 | On the spectral and combinatorial structure of 2D positive systems. Linear Algebra and Its Applications, 1996, 245, 223-258. | 0.9 | 27 |
| 15 | Multidimensional Systems with Finite Support Behaviors: Signal Structure, Generation, and Detection. SIAM Journal on Control and Optimization, 1998, 36, 760-779. | 2.1 | 27 |
| 16 | Matrix fraction descriptions in convolutional coding. Linear Algebra and Its Applications, 2004, 392, 119-158. | 0.9 | 24 |
| 17 | Primitivity of Positive Matrix Pairs: Algebraic Characterization, Graph Theoretic Description, and 2D Systems Interpretation. SIAM Journal on Matrix Analysis and Applications, 1998, 19, 71-88. | 1.4 | 22 |
| 18 | Asymptotic stability and stabilizability of special classes of discrete-time positive switched systems. Linear Algebra and Its Applications, 2013, 438, 1814-1831. | 0.9 | 20 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Feedback stabilization, regulation and optimal control of Boolean control networks. , 2014, , . | | 18 |
| 20 | Algebraic realization theory of bilinear discrete-time input-output maps. Journal of the Franklin Institute, 1976, 301, 143-159. | 3.4 | 17 |
| 21 | Matrix Pairs in Two-Dimensional Systems: An Approach Based on Trace Series and Hankel Matrices. SIAM Journal on Control and Optimization, 1995, 33, 1127-1150. | 2.1 | 12 |
| 22 | On the structure of finite memory and separable two-dimensional systems. Automatica, 1994, 30, 347-350. | 5.0 | 10 |
| 23 | Stability properties of a class of positive switched systems with rank one difference. Systems and Control Letters, 2014, 64, 12-19. | 2.3 | 10 |
| 24 | Stabilizability of discrete-time positive switched systems. , 2010, , . | | 9 |
| 25 | Observability and reconstructibility of Boolean control networks. , 2012, , . | | 9 |
| 26 | Stability and stabilizability of special classes of discrete-time positive switched systems. , 2011, , . | | 8 |
| 27 | Fault detection of Boolean control networks. , 2014, , . | | 7 |
| 28 | A polynomial matrix approach to the structural properties of 2D positive systems. Linear Algebra and Its Applications, 2006, 413, 458-473. | 0.9 | 6 |
| 29 | Identification problems for Boolean networks and Boolean control networks. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 5399-5404. | 0.4 | 6 |
| 30 | Polynomial inverses of 2D transfer matrices and finite memory realizations via inverse systems. Multidimensional Systems and Signal Processing, 1993, 4, 269-284. | 2.6 | 3 |
| 31 | On some connections between bilinear input/output maps and 2D systems. Nonlinear Analysis: Theory, Methods & Applications, 1997, 30, 1995-2005. | 1.1 | 2 |
| 32 | Finite-horizon optimal control of Boolean control networks. , 2013, , . | | 2 |
| 33 | On the stability and stabilizability of a class of continuous-time positive switched systems with rank one difference. , 2013, , . | | 1 |
| 34 | Minimal Realizations of Syndrome Formers of a Special Class of 2D Codes. CIM Series in Mathematical Sciences, 2015, , 185-193. | 0.4 | 1 |
| 35 | Matrix Pairs and 2D Systems Analysis. European Consortium for Mathematics in Industry, 1997, , 56-69. | 0.4 | 0 |
| 36 | Composition codes. Advances in Mathematics of Communications, 2016, 10, 163-177. | 0.7 | 0 |