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References

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- 6 **Operator-Theoretic Characterization of Eventually Monotone Systems**

[Sootla, A](#) and [Mauroy, A](#)
Jul 2018 | [IEEE CONTROL SYSTEMS LETTERS](#) 2 (3) , pp.429-434

Eventually monotone systems are dynamical systems whose solutions preserve a partial order in

4

Citations

33

References

32



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 7 **An Optimization-Based State Estimation Framework for Large-Scale Natural Gas Networks**
[Jalving, J](#) and [Zavala, VM](#)

May 2 2018 |

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[Vrachimis, S. G.](#); [Eliades, D. G.](#) and [Polycarpou, M. M.](#)
2018 | [Drinking Water Engineering and Science](#) 11 (1) , pp.19-24

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References

 9 **Economic optimization of intra-day gas pipeline flow schedules using transient flow models**
[Zlotnik, A.](#)
Proc. PSIG Annu. Meeting
2017 | [P PSIG ANN M](#) , pp.1715**1**

Citation

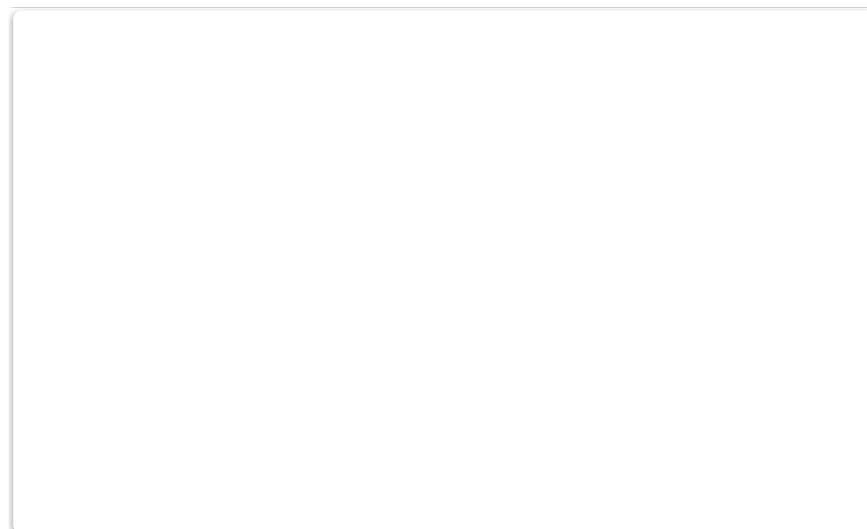
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References

 10 **Monotonicity of Actuated Flows on Dissipative Transport Networks**
[Zlotnik, A.](#); [Misra, S.](#); (...); [Chertkov, M](#)
9

Citations

32

11 **Optimal Flood Mitigation over Flood Propagation Approximations**

[Tasseff, B](#); [Bent, R](#) and [Van Hentenryck, P](#)
 13th International Conference on Integration of Artificial Intelligence and Operations Research Techniques in Constraint Programming (CPAIOR) 2016 |
[INTEGRATION OF AI AND OR TECHNIQUES IN CONSTRAINT PROGRAMMING, CPAIOR 2016](#)
 9676 , pp.358-373

Globally, flooding is the most frequent among all natural disasters, commonly resulting in damage to infrastructure, economic c ... [Show more](#)

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References

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 Proc. IEEE Symp. Math. Theory Netw. Syst. 2016 | P 22 INT S MATH THEO , pp.531-537

2
Citations

0
References

13 **Optimization problems in natural gas transportation systems: A state-of-the-art review**

[Rios-Mercado, RZ](#) and [Borraz-Sanchez, C](#)
 Jun 1 2015 | [APPLIED ENERGY](#) 147 , pp.536-555

This paper provides a review on the most relevant research works conducted to solve natural gas transportation problems v ... [Show more](#)

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149
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challenging nonlinear phy ... [Show more](#)

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15 **Optimal Control of Transient Flow in Natural Gas Networks**

[Zlotnik, A](#); [Chertkov, M](#) and [Backhaus, S](#)
54th IEEE Conference on Decision and Control (CDC) 2015 | 2015 54TH IEEE CONFERENCE ON DECISION AND CONTROL (CDC) , pp.4563-4570

We outline a new control system model for the distributed dynamics of compressible gas flow through large-scale pipeli ... [Show more](#)

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References

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54th IEEE Conference on Decision and Control (CDC) 2015 | 2015 54TH IEEE CONFERENCE ON DECISION AND CONTROL (CDC) , pp.4571-4578

We consider general, steady, balanced flows of a

13
Citations

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References

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Society for Industrial and Applied Mathematics,
Philadelphia

0
References

- 19 **Estimation of the Efficiency for Variable Speed Pumps in EPANET Compared with Experimental Data**

[Georgescu, AM](#); [Cosoiu, CI](#); (...); [Anton, A](#)
16th International Conference on Water Distribution System Analysis (WDSA)
2014 | 16TH WATER DISTRIBUTION SYSTEM ANALYSIS CONFERENCE (WDSA2014): URBAN WATER HYDROINFORMATICS AND STRATEGIC PLANNING 89 , pp.1404-1411

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- 26 **Robust Distributed Routing in Dynamical Networks-Part II: Strong Resilience, Equilibrium Selection and Cascaded Failures**

[Como, G](#); [Savla, K](#); (...); [Frazzoli, E](#)

Feb 2013 |

[IEEE TRANSACTIONS ON AUTOMATIC CONTROL](#) 58

(2) , pp.333-348

Strong resilience properties of dynamical networks are analyzed for distributed routing policies. The latter are characterized by ... [Show more](#)

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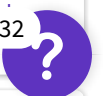
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nonlinear partial differential equations 49
American Mathematical Soc.

0
References

- 30 Computing surrogates for gas network simulation using model order reduction

[Grundel, S.](#); [Benner, P.](#); (...); [Clees, T.](#)
2013 | Surrogate-Based Modeling and Optimization, pp.189-212
Springer. New York. NY. USA

19
Citations

0
References



- 34 **Design and Operations of Gas Transmission Networks**
[Babonneau, F](#); [Nesterov, Y](#) and [Vial, JP](#)
Jan-feb 2012 | [OPERATIONS RESEARCH](#) 60 (1), pp.34-47
Problems dealing with the design and operations of

42
Citations

17
References



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