

## Rational Algebra and MM Functions.

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*Abstract:* MM functions, formed by finite composition of the operators min, max and translation, represent discrete-event systems involving disjunction, conjunction and delay. The paper shows how they may be formulated as homogeneous rational algebraic functions of degree one, over  $(\max, +)$  algebra, and reviews the properties of such homogeneous functions, illustrated by some orbit-stability problems.

*Keywords:* algebraic systems theory; discrete-event dynamic systems; asymptotic stability;

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