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Revenue Management for Cloud Computing Providers: Decision Models for Service Admission Control under Non-probabilistic Uncertainty

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Highlights

- We propose service admission control models for Cloud service providers.
- The models aim at maximizing revenue under both certainty and uncertainty.
- All suggested models can be solved in polynomial time.
- Policy-based approaches outperform the first-come first-serve approach.
- The presence of informational uncertainty can significantly reduce revenue.

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