

# 10 Key Elements of a Research Paper: A Writers Perspective

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University of Moratuwa

## 1 – Know Your Audience

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- Review Phase → Reviewers
  - Aware of domain & problem
  - Few may be working on exactly the same problem
  - Want to determine whether work is worthy of publishing
- Camera Ready → Researchers
  - Novice
  - Expert
  - General interest on topic
  - Few working on exactly the same problem
  - Want to gain knowledge and/or want to solve a specific problem

*"Every paper tells a story. Know your story."*  
- Jim Kurose



## 2 – Follow Template

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- Conferences & Journals have their own templates

### Adaptive Workload Prediction for Proactive Auto-Scaling in PaaS Systems

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Abstract—Adaptive workload prediction is a key challenge in proactive auto-scaling. In this paper, we propose a novel adaptive workload prediction algorithm that can predict the workload of a PaaS system in advance. The algorithm is based on the idea of using a machine learning model to predict the workload of a PaaS system. The model is trained using historical data of the workload of the PaaS system. The model is then used to predict the workload of the PaaS system in advance. The algorithm is evaluated using a real-world dataset of the workload of a PaaS system. The results show that the algorithm can predict the workload of a PaaS system with high accuracy.

Keywords—Adaptive workload prediction, proactive auto-scaling, PaaS systems, machine learning, workload prediction.

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