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## Cost-effective product prioritisation technique for software product line testing

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### Satendra Kumar

Department of Computer Science and Engineering,  
GL Bajaj Institute of Technology and Management,  
Greater Noida, India  
Email: satendra04cs41@gmail.com

### Mohit Mittal\*

Department of Information Science and Engineering,  
Kyoto Sangyo University,  
Kyoto, Japan  
Email: mohitmittal@ieee.org  
\*Corresponding author

### Vinod Kumar Yadav

Department of Information Technology,  
Government Polytechnic Aurai,  
Bhadohi, U.P., India  
Email: vinodrockcsit@gmail.com

**Abstract:** Software product line testing (SPLT) is a tedious task due to the generation of large number of products. Products testing sequence plays a significant role so that the testing resources could not be exhausted until all the products are tested. This problem can be overcome using the test case prioritisation (TCP) techniques. Many TCP techniques have been proposed to test SPL products in order, but they have not focused on product cost. The product with the highest cost should be tested first, because testing resources should not be exhausted to reach the main product with higher cost. In this paper, a cost-effective product prioritisation technique for SPLT is proposed in which products are prioritised on the basis of products cost. The rigorous evaluation results show that cost-effective prioritisation order is better than random order and similarity-based order.

**Keywords:** feature model; test case prioritisation; software product line; cost effective testing.

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**Biographical notes:** Satendra Kumar is an Assistant Professor at Department of Computer Science and Engineering in GL Bajaj Institute of Technology and Management, Greater Noida, India. He completed his PhD in Computer Science from GKV, Haridwar in 2020. He has two years of teaching experience and seven years research experience. He has published more than 15 research papers in reputed journals and conferences. His areas of research are software engineering, software product-line, data mining and machine learning.

Mohit Mittal is Post-Doctoral Researcher at Department of Information Science and Technology in Kyoto Sangyo University, Kyoto, Japan. He received his PhD from GKV, Uttarakhand, India, 2018. He has published more than 45 research papers in various international journals and conferences. His areas of research are wireless sensor network, artificial intelligence, NLP, data mining and machine learning.

Vinod Kumar Yadav is currently working as a Lecturer in Information Technology, Department at Government Polytechnic Aurai, Bhadohi (UP). He received his MTech in Computer Science and Engineering at Kamla Nehru Institute of Technology, Sultanpur, UP, India. His areas of interest in research are data science, database, data mining and warehousing.