

Table1 The original class FileGeneratorAdapter in ArgoUML

Original Class FileGeneratorAdapter	
Attributes	Methods
LOG fileGen	generate(Collection, boolean) generateFiles(Collection, String, boolean) generateFileList(Collection, boolean) createTempDir() traverseDir(File, FileAction) readAllFiles(File) act(File) deleteDir(File) readFileNames(File)

Table2 The new classes extracted by developers

Class Extracted by the Developers - 1	
Attributes	Methods
fileGen	generate(Collection, boolean) generateFiles(Collection, String, boolean) generateFileList(Collection, boolean)
Class Extracted by the Developers - 2	
Attributes	Methods
private Logger LOG	createTempDir() traverseDir(File, FileAction) readAllFiles(File) act(File) deleteDir(File) readFileNames(File)

Table3 The new classes extracted by our approach

Class Extracted our approach - 1	
Attributes	Methods
fileGen	generateFileList(Collection, boolean) generateFiles(Collection, String, boolean) generate(Collection, boolean) readAllFiles(File)
Class Extracted our approach - 2	
Attributes	Methods
LOG	deleteDir(File) readFileNames(File) traverseDir(File, FileGeneratorAdapter\$FileAction) createTempDir() act(File)

Table 4 The new classes extracted by Bavota's approach[14]

Class Extracted Bavota's approach - 1	
Attributes	Methods
fileGen	generate(Collection, boolean) generateFiles(Collection, String, boolean) readAllFiles(File) readFileNames(File) traverseDir(File, FileGeneratorAdapter\$FileAction)
Class Extracted Bavota's approach - 2	
Attributes	Methods
LOG	createTempDir() generateFileList(Collection, boolean) deleteDir(File) act(File)

Table 5 The new classes extracted by Fokaefs' approach

Class Extracted Fokaefs' approach - 1	
Attributes	Methods
fileGen	generateFileList(Collection, boolean) generateFiles(Collection, String, boolean) generate(Collection, boolean) readAllFiles(File) createTempDir()
Class Extracted Fokaefs' approach - 2	
Attributes	Methods
LOG	deleteDir(File) readFileNames(File) traverseDir(File, FileGeneratorAdapter\$FileAction) act(File)