Testing Communicating Systems: a Model, a Methodology, and a Tool *

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Abstract. This paper follows two main lines of research. The first line is related to the study of models for the description of systems. For this line, we introduce the model of *Communicating Systems* (CS), which defines a set of common resources, a set of entities, and a topology of communication. The second line focuses on testing methodologies adapted to protocol testing. For this line, we give a formal definition of a generic generation algorithm (GGA). We demonstrate that the CS model with a GGA supports various 1) test architectures, 2) test types: conformance, interoperability, embedded, component testing, and 3) test approaches: passive and active testing. The paper presents also the main characteristics of the TGSE tool (Test Generation, Simulation, and Emulation). TGSE is made-up of a test case generator, based on the CS model and implementing a GGA, a graphic simulator of the execution of a sequence generated by TGSE, and a real-time emulator of communicating specifications. In its current version, TGSE supports the passive and active testing of one or several components with data and temporal constraints.

1 Introduction

Protocol specifications are used to develop products and services. To ensure correctness of such products (implementations), testing, the process of checking that a system possesses a set of desired properties and/or behaviors, is one of the most used validation techniques.

Testing process is a hard work that is long, repetitive and which represents a potential source of errors. The use of formal specifications provides support for automating this process. Different models (FSM, EFSM, CEFSM, LTS, IOLTS, TIOA,...) and languages (SDL, Lotos, IF, UML,...) have been proposed to describe protocols and the desired behaviors about them in a formal way. Due to the nature of protocols/functions being tested, various test types are required. For example, in conformance testing, a single implementation is compared to relevant standards. In interoperability testing, two or more implementations are tested directly against each other, with the standard used primarily as a reference to adjudicate problems and incompatibilities, and secondarily as a guide

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Testing of Communicating Systems M. Ümit Uyar,Ali Y. Duale,Mariusz A. Fecko,2006-04-27 This book constitutes the refereed proceedings of the 18th IFIP TC 6 WG 6 1 International Conference on Testing Communicating Systems TestCom 2006 The 23 revised full papers presented were carefully reviewed and selected from initially 48 submissions The papers address all current issues in testing communicating systems ranging from classical telecommunication issues to general software testing   *Testing of Software and Communication Systems* Manuel Nunez,Paul Baker,Mercedes G. Merayo,2009-10-16 This book constitutes the refereed proceedings of the 21th IFIP WG 6 1 International Conference on Testing Communicating Systems TESTCOM 2009 and the 9th International Workshop on Formal Approaches to Testing of Software FATES 2009 jointly held in Eindhoven The Netherlands in November 2009 The 13 revised full papers presented together with 6 short papers were carefully selected from 37 submissions to both events The papers cover new approaches concepts theories methodologies tools and experiences in the field of testing of communicating systems and general software

Testing of Communicating Systems Roland Groz,Robert M. Hierons,2004-02-20 This volume contains the proceedings of the 16th IFIP TC6 WG6 1 Inter tional Conference on Testing of Communicating Systems TestCom 2004 This conference was held at St Anne s College Oxford UK from March 17 to March 19 2004 TestCom 2004 was the sixteenth in a series of IFIP sponsored events that started in 1988 The previous events were held in Vancouver Canada 1988 B lin Germany 1989

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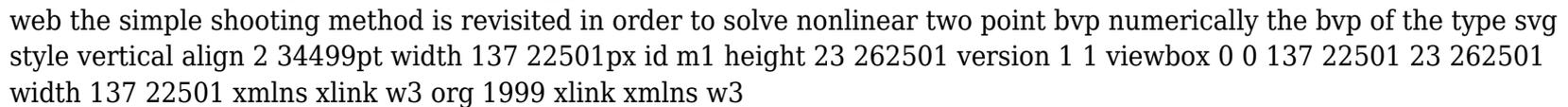
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web oct 24 2022   today is the turn of england and it s legendary being the green man origin of the green man wander around anywhere in the countryside of the uk for long enough and you might spot it

green man official movie youtube - Mar 30 2022

web feb 27 2021   subscribe 382 views 2 years ago the hit film premiering at sundance and winning 27 academy awards is now available for streaming on demand on certain platforms notice green man will not be

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web may 18 2023   bugün ki yazımda pagan bir figür olup semavi dinlere de geçmiş olan the green man ya da dilimize çevrilmiş hali ile yeşil adam karakterini ele alacağım yeşil adam aslında yalnız ortadoğu ve avrupa da değil hindistan dan anadolu ya avrupa dan amerika ya pek çok yerde kendisini göstermiş bir

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web jan 29 2015   print an enigma spanning thousands of years the green man is a symbol of mysterious origin and history permeating various religious faiths and cultures the green man has survived countless transformations and cultural diversities enduring in the same relative physical form to this day

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web after disposing of a dictator and millionaire hawkins is assigned to kill a politician who is heading to a remote hotel the green man for a secret tryst with his secretary there however

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web feb 17 2021   this is our second post about the green man a figure from traditional folk culture it traces the meaning of the phrase green man from the 16th to the 20th centuries providing a wealth of historical references to green men which were wild men covered in leaves often armed with clubs

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web jun 4 2022   however to give you some idea as to how widespread the green man is here are some examples there are sculptures of the green man in st hilaire le grand in northern france dating back to 400 ad there are also green man figures in lebanon and iraq from the second century ad including in the

[the green man historic uk](#) - Feb 09 2023

web culture uk the green man by ellen castelow glance upwards as you approach or enter many of britain s great cathedrals

and churches and it is more than likely you will catch sight of the green man gazing looking down at you but who is this strange green figure surrounded by foliage often with leaves spilling forth from his mouth

green man wikipedia - Aug 15 2023

web the green man also known as a foliate head 1 is a motif in architecture and art of a face made of or completely surrounded by foliage which normally spreads out from the centre of the face 2

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web apr 5 2021   kingsley amis 1969 novel the green man not only features an inn of that name but also eventually a manifestation of the green man himself in the form of a murderous pagan monster of sticks and branches australian author terry dowling s haunting short story the bullet that grows in the gun also features a sinister ghostly

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web apr 11 2019   the green man is mainly associated with the symbol of rebirth representing the cycle of growth each spring some say he some speculate that the mythology of the green man developed independently in the traditions of separate ancient the celtic tradition was highly revolved around the

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web the green man directed by robert day basil dearden with alastair sim george cole terry thomas jill adams an assassin is annoyed by a vacuum cleaner salesman determined to stop him