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Title word cross-reference

$150$ [1851]. 3 [1861]. N [24]. O₂ [225].
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Press:1990:STP


Science:1990:SRA


Nielsen:1990:ANT


Carlson:1990:HNF


Dhar:1990:IPV


Molich:1990:IHC


Arefi:1990:AGV

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Wielgus:1990:AFM


Wilkes:1990:CSB


Frenkel:1990:ECI


Jeelof:1990:EFF


Chiarodo:1990:SME


Ono:1990:JVE


Anonymous:1990:ECC


Anonymous:1990:CDJ

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Karp:1990:MPP


Frand:1990:SAU


Rudolph:1990:SAP


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Denning:1990:AJP


Kocher:1990:PLE


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**Rohde:1990:DRP**


**Swanson:1990:DSD**

[62] William Pugh. Skip lists: a probabilistic alternative to balanced trees. *Communications of the ACM*, 33(6):668–676, June 1990. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic). URL http://www.acm.org/pubs/toc/Abstracts/0001-0782/78977.html. This paper presents skip lists, a list in which a node may have a pointer to a node some number of places ahead of it on the list. Such pointers, called “forward pointers”, therefore “skip” over intermediate nodes. A node with k forward pointers is said to be a level k node. Skip lists are probabilistic in that the level of a node is chosen randomly with the property that a node’s i th forward pointer points to the next node of level i or higher. It is shown that skip lists can efficiently implement abstract data types such as dictionaries and ordered lists in that the expected time to search for an item is $O(\log n)$.

**Pugh:1990:SLP**


**Pearson:1990:FHV**


**Kumar:1990:COE**


**Press:1990:PCS**


**Crawford:1990:WBF**
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Wilkes:1990:BF


Samuelson:1990:LSS


Lenat:1990:CTP


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Nussbaum:1991:SPM


Teuhola:1991:MSA


Hix:1991:HCI


Blostein:1991:JPM

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Data elements in Utopist (attributes of objects) can be bound by both inter- and intra-object relations. These relations are used by a propositional theorem prover to generate a proof that it is possible to compute a certain datum given some other data. This (constructive) proof is used to synthesize a program which computes the datum. So PRIZ has a quite non-standard logic component: compile-time proof and program generation instead of run-time clause resolution. These technique are called Propositional Logic Programming and Structural Program Synthesis. NUT is a prototype-based (as op-
posed to class-based) language: any object can be used as a template (type) for a new object (and of course as a component of a new object). Limited polymorphism is supported through a generic type (any). It is notable that some of the modern programming paradigms (constraint programming, object-orientation, employing logic in computation) have been considered so early.


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Neumann:1991:IRCc


Wilkes:1991:CPR


Barlow:1991:EFP


Schoppers:1991:RTK


Chandrasekaran:1991:RTD


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Kottemann:1991:SAM

Bersoff:1991:ILC

Rosenberg:1991:IRM

Goodman:1991:IPU

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Gabriel:1991:CIO
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Choobineh:1992:FBA


Gray:1992:ECF


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Soloway:1992:BCY


Barlow:1992:DPP


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McCormick:1992:MRA


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Karp:1981:ERP


Knuth:1992:LP
